WOLVERINE OPERATING COMPANY OF UTAH, LLC

Energy Exploration in Partnership with the Environment

June 25, 2008

RECEIVED
JUN 30 2008
DIV. OF OIL, GAS & MINING

Mr. Gil Hunt
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Application for Permit to Drill - Wolverine Operating Company of Utah, LLC
Burrville Federal 3-1
SW/4 NE/4, Section 3, T25S, R1W, SLB&M
Sevier County, Utah

Dear Mr. Hunt:

Wolverine Operating Company of Utah, LLC (Wolverine) hereby submits a copy of an *Application for Permit to Drill* (APD) for the referenced well. Included with this APD is the following supplemental information:

- R649-3-2 Exception Plat showing proposed BHL;
- R649-3-11 Directional Drilling Application Plat showing proposed BHL;
- BLM Surface Use Plan of Operations;
- Survey Plat;
- Drilling Plan, BOPE Diagram, and Directional Plan;
- Location Layout and Pad Cross-Section Drawings;
- Vicinity Map

An H_2S Contingency Plan, per Onshore Order 6, will be forthcoming as a part of this APD.

The Burrville Irrigation Company (User Number 61- 2175) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is administered by the Bureau of Land Management.

The proposed location is within 460' of a drilling unit boundary, so a request for exception to spacing (R649-3-2) is hereby requested for the well based on restrictive topography relative and the need to drill at an optimum structural location. Wolverine is the only owner and operator within 460' of the proposed well location.

This letter and the accompanying plats are also intended to serve as an application for directionally drilling the well per R649-3-11. Wolverine is the owner of all oil and gas within 460 feet from all points along the intended wellbore for the well. Information relating to R649-3-11 is as follows:

Operator: Wolverine Operating Company of Utah, LLC

Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Well: Burrville Federal 3-1

Field: NA (Wildcat)

Reservoir: NA (Wildcat)

County: Sevier

Reason: Restrictive topography and to minimize surface impact

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

Thank you for consideration of this application. Please feel free to contact myself or Paul Spiering of this office if you have any questions or need additional information.

Sincerely,

Charlie Irons

Charlie Irons
Senior Landman

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UTU-81360

6. If Indian, Allotee or Tribe Name: N/A

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: N/A

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: Burrville Federal 3-1

2. Name of Operator: Wolverine Operating Company of Utah, LLC

9. API Well No.: 43-041-30059

3a. Address: 1140 N Centennial Park Drive, Richfield, Utah 84701

3b. Phone No. *(include area code)*: 435-896-1943

10. Field and Pool, or Exploratory: Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface 1569' FNL, 2572' FEL, being in SW4NE4

At proposed prod. zone 1155' FNL, 2225' FEL, being in NW4NE4

11. Sec., T. R. M. or Blk. and Survey or Area: Section 3, T25S, R1W, SLB&M

14. Distance in miles and direction from nearest town or post office*: 8 miles north of Burrville, Utah

12. County or Parish: Sevier

13. State: UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1569'

16. No. of acres in lease: 1,596.92

17. Spacing Unit dedicated to this well: 40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: None

19. Proposed Depth: 16,050' (16,000' TVD)

20. BLM/BIA Bond No. on file: BLM WY3329

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 7,678.5 GR

22. Approximate date work will start*: 12/01/2008

23. Estimated duration: 120 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature: Paul Spiering — Name *(Printed/Typed)*: Paul Spiering — Date: 06/25/2008

Title: District Land Manager

Approved by *(Signature)*: — Name *(Printed/Typed)*: BRADLEY G. HILL — Date: 07-16-08

Title: — Office: ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

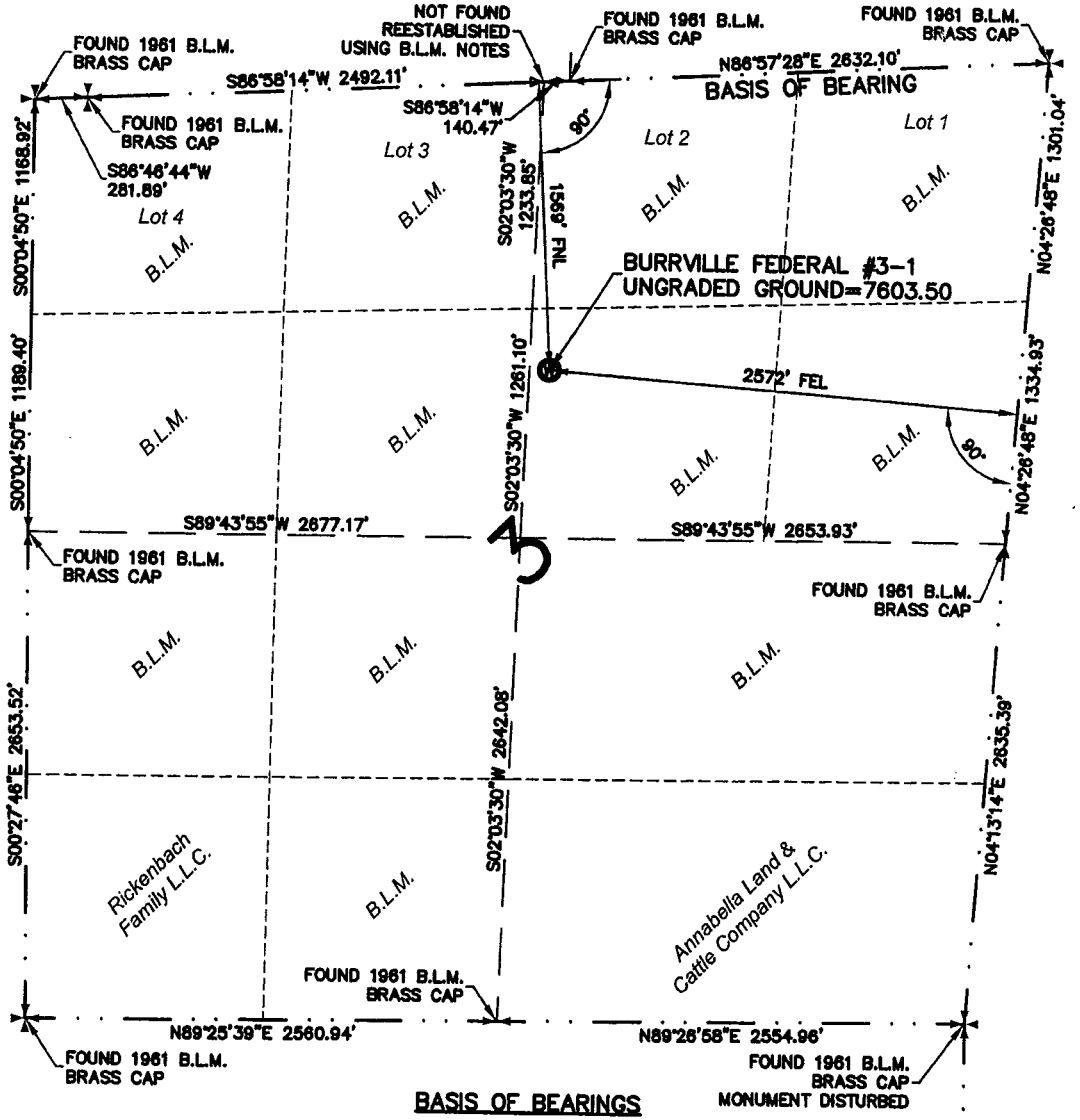
Surf
422188X
42800334
38.667330
-111.894402

Federal Approval of this Action is Necessary

BHL
422305X
42801654
38.668525
-111.893079

RECEIVED
JUN 30 2008
DIV OF OIL, GAS & MINING

Section 3, T.25 S., R.1 W., S.L.B. & M.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N86°57'28"E BETWEEN THE NORTH QUARTER CORNER AND THE NORTHEAST CORNER OF SECTION 3, T.25 S., R.1 W., S.L.B. & M.
LATITUDE = 38°40'02.47423" (38.66735395) NAD 83 – UTM ZONE 12N NAD27 N 14042094.318
LONGITUDE = -111°53'42.59944" (-111.89516651) NAD 83 – UTM ZONE 12N NAD27 E 1385125.339.

PROJECT

Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATION, LOCATED AS SHOWN IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

N

LEGEND

- = SECTION CORNERS LOCATED
- = QUARTER SECTION CORNERS LOCATED
- = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE BURRVILLE FEDERAL #3-1 LOCATION LOCATED IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88

1000' 500' 0' 1000'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR TREVOR ROY GAUD STATE OF UTAH

TREVOR ROY GAUD No. 5163699 DATE 10/12/00

Jones & Demille Engineering
1535 South 100 West – Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
www.jonesanddemille.com

Well Location Plat for

Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
–	W.H.H.	T.R.G.	T.W.G.	0702-166	1
DATE		DWG.NAME	SCALE		
05/28/08		NEWBURR...	1"=1000'		

SURFACE USE PLAN OF OPERATIONS

For inclusion with Application for Permit to Drill

Name of Operator:	Wolverine Operating Company of Utah, LLC
Address:	1140 N Centennial Park Drive Richfield, Utah 84701
	Burrville Federal 3-1
Well Location:	1569' FNL & 2572' FEL, (being in SW/4 NE/4) Section 3, T25S, R1W, SLB&M Sevier County, Utah
Access Road Location:	Access road to be an upgrade to an existing road across private land in the S2SE4 of Section 3 and a new road across BLM land in the NW4SE4 and SW4NE4 of Section 3.

Fee surface use is required for construction of a portion of the access road. State surface use is not required for any portion of the operations. Federal surface use is being requested with the associated Application for Permit to Drill (APD) through the BLM – Richfield Field Office.

The dirt contractor will be provided with an approved copy of the surface use plan of operations and conditions of approval before initiating construction.

A Federal onsite inspection is scheduled for Wednesday, June 25, 2008.

Existing Roads:
The vicinity map in the APD packet shows the proposed well location and its proximity to the town of Burrville, Utah (being about 8 miles north of same).

Driving directions: From Sigurd, Utah, travel southerly on SR 24, under Utah Department of Transportation (UDOT) maintenance approximately 22.5 miles to SR 62 (also under UDOT maintenance), follow SR 62 southwest about 1.6 miles to its intersection with Bear Valley Road (a county-maintained Class B paved road), proceed north about 1.2 miles to the center of Burrville and the end of pavement, then travel northerly about 7.8 miles on the county-maintained Class B dirt road to the lease road turnoff on west side of county road. Follow lease road across private land and onto BLM land a distance of .85 miles to wellsite. The surface condition of Bear Valley road is generally considered adequate to bear rig-related traffic, but certain portions will need upgrade and improvement. This will be performed under the conditions of an encroachment permit from Sevier County.

Access Roads to be Constructed and Reconstructed:
Proposed access will require the construction of a new driveway ramp and road from Bear Valley Road across land owned by Annabella Land and Cattle Company to a tie in with an existing two-track road that will be upgraded and improved. The existing north and south branches of the "Y" will be obliterated. This work will be performed under terms of an Easement and Right-of-Way Grant that has been signed by the landowner. The two-track will be improved to the same standard as it enters and crosses BLM land for a distance of about 700 feet. A new road will be constructed, a distance of about 1800 feet, branching off the existing road to access the wellsite. The new constructed road across BLM land will include one vehicle turnout, to allow opposing traffic to pass.

Total length of new constructed and improved access road is 4,585 feet, or 0.86 mile. BLM on-lease road length is about 2675 feet, or 0.5 mile.

Road construction, operation and maintenance will be in compliance with the terms and conditions of the Conditions

of Approval, the American Association of State Highway and Transportation (AASHTO) safety standards, and will meet criteria for the Manual of Uniform Traffic Control Devices (MUTCD) manual for signs.

Energy dissipating structures and silt fences will be utilized to minimize erosion that may result from the road construction.

The Operator intends to install a gate across the lease road at its intersection with Bear Valley Road, with set-back sufficient to allow traffic to park off the county road while opening and closing the gate. The gate will be located on private land.

All existing county roads, realigned roads and the new lease road will be maintained and kept in good repair during all phases of operation. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

Location of Existing Wells within a one-mile radius :
There are no wells (oil, gas, water, injection or disposal, producing or being drilled) within a one-mile radius of the proposed location.

Location of Existing and/or Proposed Facilities if Well is Productive:
(a) On well pad –A temporary testing facility may be constructed on this location in the event drilling is successful, consisting of treater/separator, tanks and related components. The facility would be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves would be located inside the berm surrounding the tank battery.
(b) Off well pad – It is not possible to know whether an off-well pad production facility would be necessary in the event of a discovery. The Operator will submit this information for approval at such time as production requirements are known.

Location and Type of Water Supply (Rivers, Creeks, Lakes, Ponds and Wells):
The Operator intends to lease water for drilling purposes from the Burrville Irrigation Company, user number 61-2175. Water will be loaded from a pipeline valve on the west side of Bear Valley Road in the SW4SE4 Section 35-T25S-R1W, and transported by tankers to the location, using county roads and the approved lease road. Should additional water sources be pursued they will be properly permitted through the State of Utah – Division of Water Rights. The BLM will be notified of any changes in water supply.

Construction Materials:
Natural earth materials used for fill on the well pad will be taken from cuts made in construction of the pad. Imported granular borrow from an approved source will be applied to the surface of the well pad and access road where deemed necessary. No construction materials will be removed from federal lands.

Methods for Handling Waste Disposal:
The reserve pit will be used for the disposal of waste mud and drill cuttings. All borehole fluids and salts will be contained in the reserve pit. It will be located in cut material and will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if sharp rock edges result from excavation. The pit liner will overlap the top of the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. After evaporation of fluids, back-fill of sub-soil and compaction to prevent settling will occur within 90 days of cessation of pit use. If necessary, any remaining fluids will be pumped out of the pit and transported off site.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

All rubbish and debris will be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling operations and as needed during such operations. There will be no chemical disposal of any type.

Self-contained, portable toilets will be used for human waste, and the waste will be disposed at an approved human waste disposal facility. Sanitation will comply with local and state regulations.

Ancillary Facilities:
No ancillary facilities are anticipated at this time.

Well Site Layout:
Pad Location and Layout Drawings in the APD packet show the proposed well site layout including location of the reserve pit and access road onto the pad, turnaround areas, parking areas, living facilities, soil material stockpiles, and the orientation of the rig with respect to the pad and other facilities. Cross section sheets in said packet show cuts and fills required for construction, and their relationship to topography. As detailed above under Methods for Handling Waste Disposal, the reserve pit will be lined and appropriate measures as described above will be taken to prevent leakage. The pit will be fenced on three sides during drilling operations and then the fourth side will be immediately fenced when the rig is moved off location.

The pad and road designs would be consistent with BLM specifications.

A pre-construction meeting with responsible company representative and contractors will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked (centerline and exterior boundaries) prior to this meeting.

All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of approval from the BLM under the APD, and terms and conditions of approval from SITLA under the right-of-way grant for the portion of the access road across State land.

All cut and fill slopes will be such that stability can be maintained for the life of the activity.

The stockpiled topsoil (first 6 inches or maximum available) will be isolated in a berm by the well pad. Topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

Water spraying may be implemented if necessary to minimize dust.

Plans for Reclamation of the Surface:
Interim Reclamation: In the event production is achieved the Operator will perform interim reclamation of the site. Interim reclamation will consist of reclamation of the reserve pit and reclamation of that portion of the well pad not needed for ongoing operations. After evaporation of fluids, the pit will be back-filled with sub-soil and/or rock and compacted to prevent settling. The pit area will be surfaced with granular borrow to render it a usable part of the well pad. All portions of the pad no longer necessary for well workover, testing or treating will be contoured to match the surrounding terrain to the best extent practicable. Stockpiled topsoil will be evenly distributed thereon, scarified and seeded as per BLM conditions of approval.

Final Reclamation: In the event the well is a dry hole, or at such time that all production ceases and the well has been plugged and abandoned, the Operator will perform final reclamation of the site. Final reclamation will consist of reclamation of the reserve pit, the well pad and the new-construction portion of the lease road as it crosses BLM land.

Any accumulation of hydrocarbons in the reserve pit will be removed and recovered for sale unless it is determined by the authorized officer to be waste oil. All waste oil will be disposed of properly at approved facilities. The portion of the reserve pit liner which is exposed above the cuttings will be cut and removed from the site and disposed in an authorized landfill. After evaporation of fluids, the pit will be back-filled with subsoil and/or rock from the reserve pit stockpile and compacted to prevent settling.

Road base material used in the construction of the access road and pad will be removed from the site and disposed in

a proper manner. If the reserve pit has adequate capacity, then some or all of the road base material may be buried in the reserve pit, provided that the granular is not contaminated by oil or other waste materials. The new construction portion of the access road will be contoured using an excavator or similar equipment, rather than simply ripping the surface.

Subsoil from the portions of the well pad that are fill will be pulled up onto the pad in order to reestablish the original slope to the best extent possible. The portions that are cut will be filled to match the original slope of the land to the best extent possible. Topsoil from the stockpile will then be evenly distributed over the entire impacted area, including the new-construction portion of the access road. The entire impacted area will be scarified and seeded in late fall, using the seed mix and methods described in BLM conditions of approval. Final reclamation will take place within 180 days after plugging date of the last well on site, depending on weather, season and other extenuating circumstances.

During the life of the project and until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction, and treatment shall continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.

Surface Ownership:
The surface of the proposed well site and the northerly 2675+/- feet of the access road is federally owned and is administered by the Bureau of Land Management, United States Department of Interior. The access road across the S2SE4 of Section 3-T25S-R1W is owned by Annabella Land and Livestock Company, P.O. Box 89, Annabella, Utah 84711.

Other Information:
The top 6 inches of soil material will be stripped and removed from the new-construction portion of the access road and well pad and stockpiled for future reclamation of the site. This topsoil shall be stockpiled separately from any other excavated materials. It will be reserved for reclamation and not utilized for any other purpose. If it is stockpiled for more than one year it will be seeded with a seed mix approved by the authorized officer.

Heavy equipment used to construct and rehabilitate the well pad and access road will be cleaned and/or sprayed to remove any noxious or invasive weeds and seeds, prior to entering to the project site. Any other equipment and vehicles that have been used in other locations where noxious weeds or seeds could have attached to the equipment will also be sprayed and/or cleaned.

All equipment and vehicles will be confined to the access road and well pad.

Western Land Services will conduct a Class III archeological survey and will submit same under separate cover to the appropriate agencies.

Western Land Services has conducted a wildlife study in coordination with the BLM. Western will prepare an EA for the proposed operation.

No stream alteration or drainage crossings are involved that require additional State or Federal approval.

All permanent structures, including pumping units, constructed or installed will be painted a flat, non-reflective color as described on page 40 of the Gold Book (Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development, 4th Edition 2006). Permanent structures are defined as being on location for six months or longer. Facilities required to comply with Occupational Safety and Health Act (OSHA) shall be excluded.

Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire the Sevier County Fire Warden will be notified.

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I, or someone under my direct supervision, have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 25th day of June, 2008.

Signature: _____
Paul Spiering

Position Title: District Land Manager

Address: Wolverine Gas and Oil Company of Utah, LLC
1140 N Centennial Park Drive
Richfield, Utah 84701

Telephone: 435-896-1943

Field representative (same as above signatory)

Paul Spiering
Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Telephone: 435-896-1943

Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.

OXY USA Inc.

DRILLING PLAN

Burrville Federal 3-1
SW/4 NE/4 Section 3, Township 25 South, Range 1 West, S.L.B & M.
Sevier County, Utah

Plan Summary:

It is planned to drill this confidential exploration well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 16,050' (16,000' TVD) to test the Kaibab formation. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated.

The planned location is as follows:

Surface Location:	1569' FNL, 2572' FEL, Section 3, T25S, R1W, S.L.B. & M.
Bottom Hole Location @ top target (Navajo)	1155' FNL, 2225' FEL, Section 3, T25S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	1155' FNL, 2225' FEL, Section 3, T25S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet and cemented to surface. A 17-1/2" hole will be drilled vertically to approximately 3000' where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled vertically to 5900' where the well will build to 10 degrees from vertical and hold 10 degrees to approximately 8500'. At 8500' the well will begin to drop to vertical and be back to vertical by 9100'. The well will continue to be drilled vertically to approximately 11050' (11000' TVD) where the well will be logged and 9-5/8" intermediate casing will be set and cemented to 2700' (13-3/8" csg shoe). An 8-1/2" hole will be drilled vertically by total depth of 16050' (16000' TVD). The hole will again be logged and a 5-1/2" production liner set from total depth of 16050' to top of liner at approximately 10750' (300' overlap in 9-5/8"). The liner will be cemented in place.

Drilling activities at this well are expected to commence as early as September, 2008 if regulatory approvals are obtained.

Well Name: **Burrville Federal 3-1**

Surface Location: 1569' FNL, 2572' FEL
SW/4 NE/4 Section 3, T25S, R1W, S.L.B. & M.
Sevier County, Utah

TD Bottom-Hole Location: 1155' FNL, 2225' FEL

Elevations (est): 7604' GL, 7634' KB

I. Geology:

Tops of important geologic markers and anticipated water, oil, gas, and mineral content are as follows:

Formation	TVD Interval (KB)	MD Interval (KB)	Contents	Pressure Gradient
Arapien	26' – 9700'	26' – 9750'		
Twin Creek	9700' – 10000'	9750' – 10050'	Oil & water	0.44 psi/ft
Navajo	10000' – 11800'	10050' – 11850'	Oil & water	0.44 psi/ft
Chinle	11800' – 12310'	11850' – 12360'		
Moenkopi	12310' – 13865'	12360' – 13915'		
Sinbad Member	13865' – 14230'	13915' – 14280'		
Black Dragon	14230' – 14780'	14280' – 14830'		
Kaibab	14780' – 15160'	14830' – 15210'	Oil & water	0.44 psi/ft
Toroweap	15160' – 15380'	15210' – 15430'	Oil & water	0.44 psi/ft
White Rim	15380' – 16000'	15430' – 16050'	Oil & water	0.44 psi/ft
Total Depth	16000'	16050'		

II. Well Control:

The contracted drilling rig has a 10M BOP system but conditions only require a 5M BOP system. BOPE will be in place and tested as a 5M system prior to drilling out the surface casing shoe. See attached schematic of BOPE.

A. The BOPE will, as a minimum, include the following:

Wellhead Equipment (5M Min.):

BOPE Item	Flange Size and Rating
Annular Preventer	13-5/8" 5M
Double Rams (5" Pipe - top, Blind - bottom)	13-5/8" 10M
Drilling Spool w/ 2 side outlets (4" Choke Line, 4" Kill Line)	13-5/8" 10M x 13-5/8" 10M
Single Ram (Pipe)	13-5/8" 10M
Spacer Spool	13-5/8" 10M x 13-5/8" 10M
Casing Spool (Multi-Bowl)	13-5/8" 10M x 13-5/8" 5M
Casing Head (13-3/8" SOW w/ two 2-1/16" SSO's)	13-5/8" 5M

Auxiliary Equipment (5M Min.):

BOPE Item
Choke Line with 2 valves (3" minimum)
Kill Line with 2 valves and one check valve (2" Minimum)

2 Chokes with one remotely controlled at a location readily accessible to the driller
Safety Valves to fit all drill string connections in use
Inside BOP or float sub
Pressure gauge on choke manifold
Fill-up line above the uppermost preventer
Wear bushing in casing head

B. **Choke manifold** will be functionally equipped and sized at a minimum as shown on the attached diagram. All choke lines will be straight lines unless turns have tee blocks or are targeted with running tees, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow.

C. **System accumulator** will have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer (3 ram system will have added 50 percent safety factor to compensate for any fluid loss in the control system or preventers) and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing unit pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. The accumulator will have two (2) independent power sources available to close the preventers. Nitrogen bottles may be one of those sources, and if so, will have charge maintained per manufacturer's specifications.

D. **Accumulator pre-charge pressure test** will be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum specified limits. Only nitrogen gas will be used to precharge.

E. **Power for the closing unit pumps** will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the pre-set level.

F. **Accumulator pump capacity** will be such that, with the accumulator system isolated from service, the pumps will be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and retaining a minimum of 200 psi above the specified accumulator pre-charge pressure.

G. **Locking devices**, either manual (i.e., hand wheels) or automatic, will be installed on the ram type preventers. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

H. **Remote controls** will be readily accessible to the driller and will be capable of both opening and closing all preventers. Master controls shall be at the accumulator and shall be capable of opening and closing all preventers and the choke line valve.

I. **Well control equipment testing** will be performed using clear water when the equipment is initially installed, whenever any seal subject to test pressure is broken, following related repairs, and as a minimum, every 30-day interval. The tests will apply to all related well control equipment.

Ram type preventers and associated equipment will be isolated and tested to 5000 psi. The annular preventer will be tested to 2500 psi. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer, for all tests. A casing head valve will be open below the test plug during testing of the BOP stack. Valves will be tested from the working pressure side with all down-stream valves open. Kill line valves will be tested with the check valve held open or the ball removed.

Pipe and blind rams will be activated each trip, but not more than once a day. The annular preventers will be functionally operated at least weekly. A pit level drill will be conducted weekly for each crew. All BOPE drills and tests will be recorded in the IADC driller's log.

III. Casing and Cementing:

A. Casing Program (all new casing):

Hole Size	Casing Size	Weight	Grade	Connection	Coupling Diameter	Setting Depth
30"	20"		Conductor			120' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	3000' KB
12.25"	9.625"	53.5	HCL-80	BTC	10.625"	11050' KB
8.50"	5.500"	20	L-80	LTC	6.050"	16050' KB

	Surface	Intermediate	Prod Liner
Casing O. D. (in)	13.375	9.625	5.500
Casing Grade	J-55	HCL-80	L-80
Weight of Pipe (lbs/ft)	68.0	53.5	20.0
Connection	BTC	BTC	LTC
Top Setting Depth - MD (ft)	0	0	10750
Top Setting Depth - TVD (ft)	0	0	10700
Bottom Setting Depth - MD (ft)	3000	11050	16050
Bottom Setting Depth - TVD (ft)	3000	11000	16000
Maximum Mud Weight - Inside (ppg)	9.2	10.5	9.0
Maximum Mud Weight - Outside (ppg)	9.2	10.5	9.0
Design Cement Top - MD (ft)	0	2700	13000
Design Cement Top - TVD (ft)	0	2700	13000
Max. Hydrostatic Inside w/ Dry Outside (psi)	1435	6006	7488
Casing Burst Rating (psi)	3450	7390	9190
Burst Safety Factor (1.10 Minimum)	**2.40**	**1.23**	**1.23**
Max. Hydrostatic Outside w/ Dry Inside (psi)	1435	6006	7488
Collapse Rating	1950	8850	8830
Collapse Safety Factor (1.125 Minimum)	**1.36**	**1.47**	**1.18**
Casing Weight in Air (kips)	204.0	591.2	106.0
Body Yield (kips)	1069	1244	466
Joint Strength (kips)	1140	1414	416
Tension Safety Factor (1.60 Minimum)	**5.24**	**2.10**	**3.92**

Casing with same or greater burst, collapse, and tension rating may be substituted for any of the planned casing sizes depending on availability and actual conditions.

B. Cementing Program

Casing Size	Cement Slurry	Quantity (sks)	Density (ppg)	Yield (ft^3/sk)
13.375"	Lead: CBM Lite	900	10.5	4.12
	Tail: Premium Plus	380	15.6	1.19
9.625"	Stage 2: 50:50 POZ	1200	13.5	1.66
	Stage 1: Premium	1385	15.8	1.29
5.500"	Tail: 50:50 POZ	545	13.4	1.8

Surface: 13-3/8" surface casing will be cemented from setting depth (3000' MD) to surface and topped out with premium cement if necessary. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom four (4) casing joints, then every fourth joint to surface. Water or other preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Intermediate: 9-5/8" intermediate casing will be cemented in two stages from setting depth (11050' MD) to 2700' (back into the surface csg shoe). Slurry volume will be based on calipered hole size plus 10% excess. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom four (4) joints of casing and one centralizer per joint across any salt interval. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production: 5-1/2" production casing liner will be cemented in one stage from setting depth (16050') to 13000' (850' above the top productive zone). A minimum of 20 percent silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volume will be based on calipered hole size plus 10% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers as needed across any pay zones. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Other: - The BLM will be notified at least twenty-four hours prior to running and cementing the surface and production casing strings.

- Actual cement slurries for all casing will be based on final service company recommendations.

- The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.

- Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.

- Surface casing will be tested to 1000 psi before drilling out. All subsequent casing strings will be tested to 1500 psi before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.

- Before drilling more than 20 feet of new hole below each casing string, a pressure integrity test of the casing shoe will be performed to a minimum of the mud weight equivalent anticipated to control the pore pressure to the next casing depth or at total depth of the well.

IV. Mud Program:

Depth	Mud Weight (ppg)	Mud Type	Viscosity	Fluid Loss
0 – 3000'	8.6 – 9.2	Fresh Water	45 – 60	N/C to 12 cc
3000' – 11050'	9.2 – 10.5	Salt Mud	35 – 50	10 to 12 cc
11050' – 16050'	8.8 – 9.0	LSND	35 – 50	6 - 8 cc

A. After mudding up, slow pump rates will be taken daily and recorded in the driller's log.

B. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.

C. Abnormal pressures are not anticipated. In the event such pressures are to be anticipated, electronic/mechanical mud monitoring equipment will be in place and include as a minimum; pit volume totalizer (PVT); stroke counter; and flow sensor.

D. A 24-hour mud engineer will be onsite at all times, mud tests will be performed as needed to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

E. The 10M BOPE system is not required for conditions on this well and use of the trip tank is not anticipated.

F. Gas detecting equipment will be installed in the mud return system, and hydrocarbon gas shall be monitored for pore pressure changes. The presence of Hydrogen Sulfide gas is possible.

G. The need to vent combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located more than 100 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition.

H. Abnormal pressure is not expected. If abnormal pressure is to be anticipated, a mud-gas separator (gas buster) will be installed and operable beginning at a point at least 500 feet above any anticipated hydrocarbon zone of interest.

V. Evaluation:

A. Mud Log: A mud logging unit will be in operation from a depth of approximately 3000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.

B. Drill Stem Tests: No DST's will be taken.

C. Coring: Rotary side-wall cores may be taken at select intervals in conjunction with open-hole logging operations.

D. Wireline Logs: Wireline logs will be run as hole conditions allow from total depth to surface casing to assist in determining lithology and potential for hydrocarbon recovery. The logging tools will at a minimum survey resistivity, gamma radiation, and sonic velocity.

VI. Expected Bottom-Hole Pressure and Abnormal Conditions:

A. Hydrogen Sulfide: Hydrogen Sulfide (H_2S) gas is possible in the deeper geologic formations to be penetrated by this well. A H2S Drilling Operations Plan will be supplemented to this Drilling Plan.

B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.

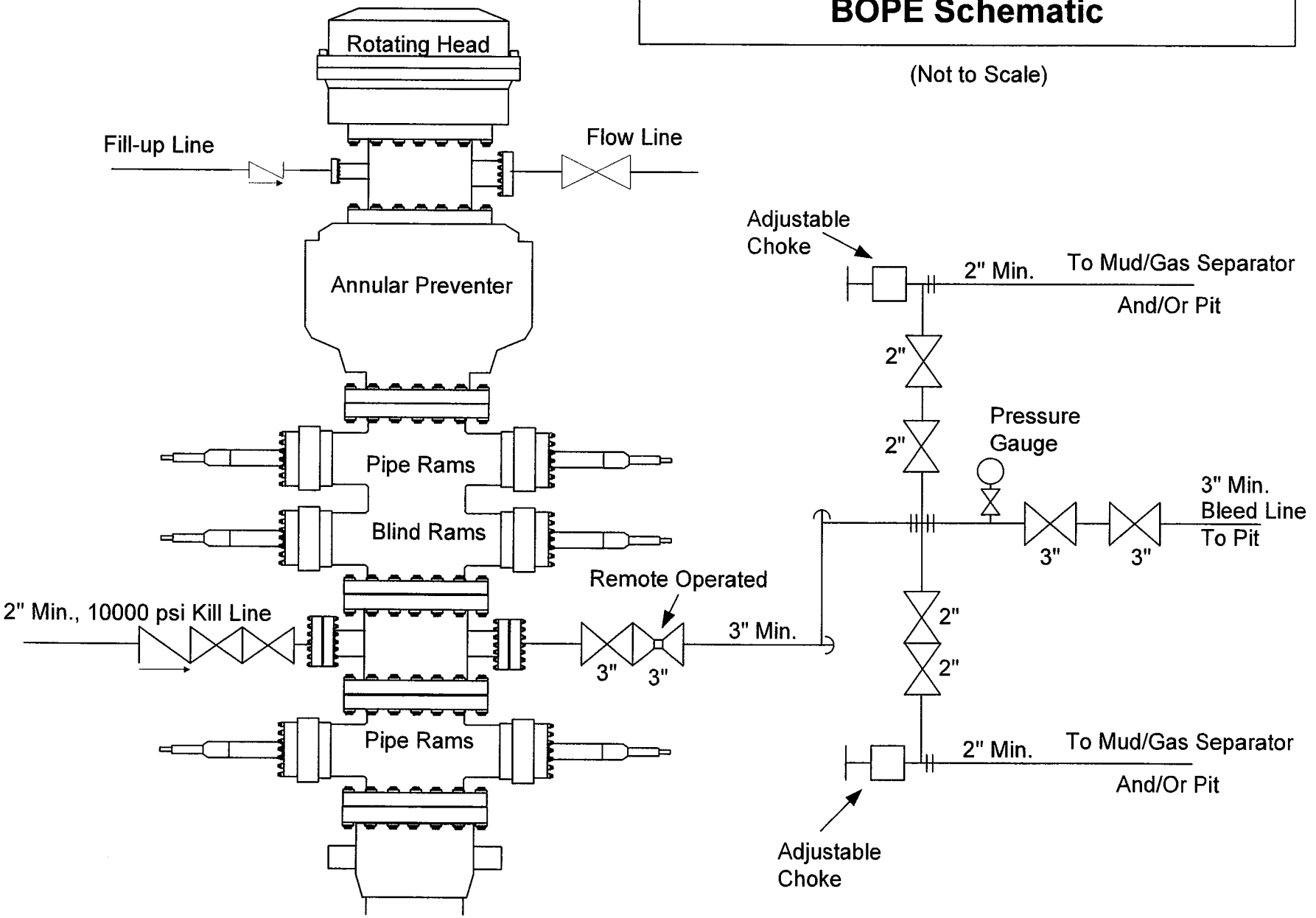
C. Temperature: Bottom-hole temperature at TD is expected to be approximately 355 °F.

end

Burrville Federal 3-1

BOPE Schematic

(Not to Scale)



Project: UTAH
Site: BURRVILLE
Well: BURRVILLE FEDERAL 3-1
Wellbore: Wellbore #1
Design: Plan #1

OXY USA RMAT

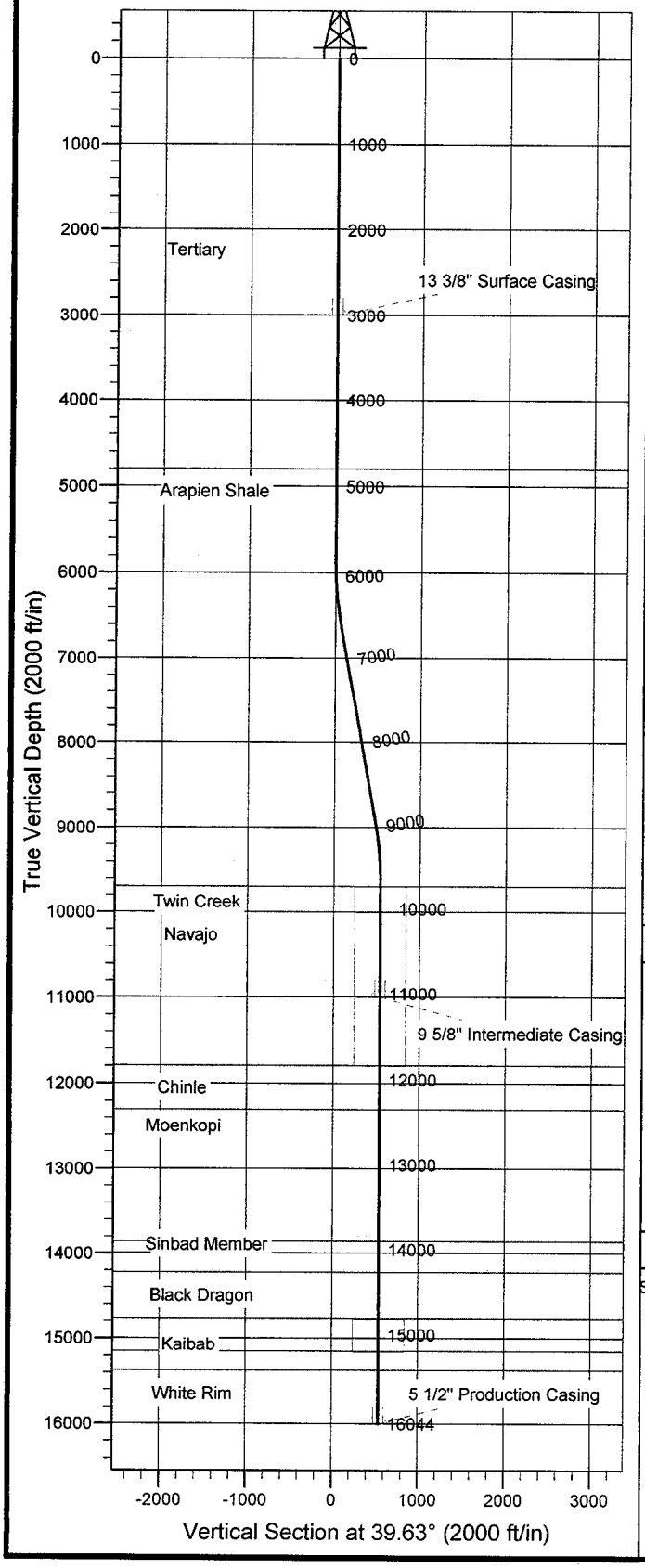
Azimuths to True North
Magnetic North: 12.19°

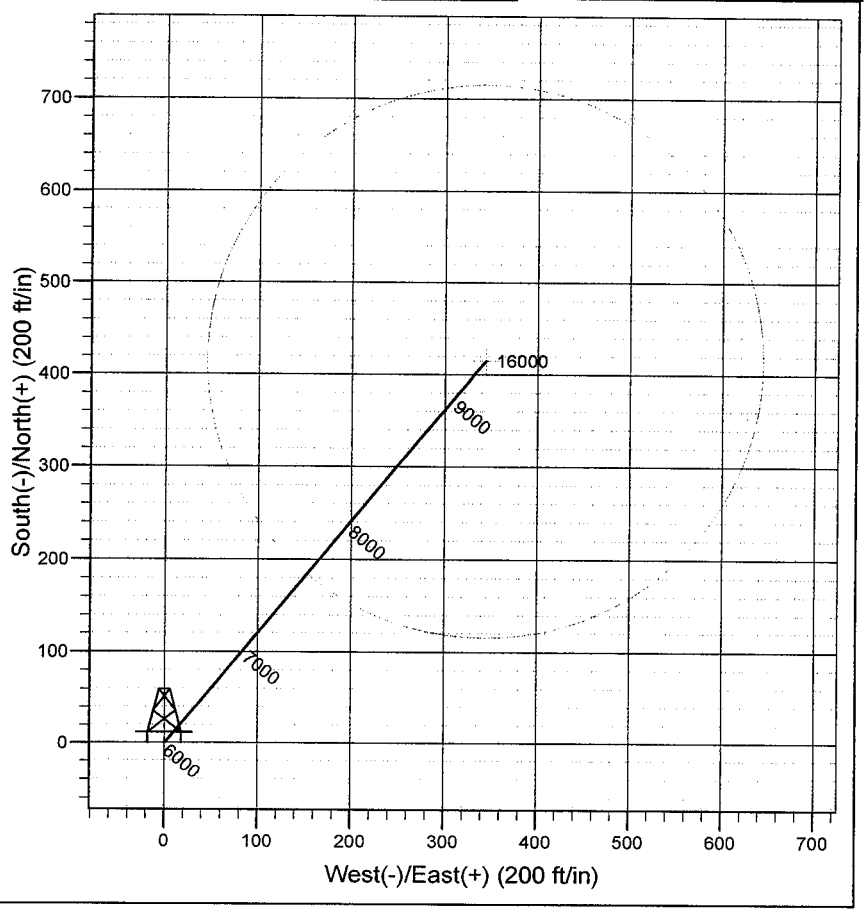
Magnetic Field
Strength: 51569.9nT
Dip Angle: 64.36°
Date: 1/10/2008
Model: IGRF200510

WELL DETAILS: BURRVILLE FEDERAL 3-1

GROUND ELEVATION @ 7605.0ft (GROUND ELEVATION) 7604.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	121924.00	1887367.00	38° 40' 2.570 N	111° 53' 39.946 W	





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2000.0	2000.0	Tertiary
4800.0	4800.0	Arapien Shale
9700.0	9743.8	Twin Creek
10000.0	10043.8	Navajo
11800.0	11843.8	Chinle
12310.0	12353.8	Moenkopi
13865.0	13908.8	Sinbad Member
14230.0	14273.8	Black Dragon
14780.0	14823.8	Kaibab
15160.0	15203.8	Toroweap
15380.0	15423.8	White Rim

Plan: Plan #1 (BURRVILLE FEDERAL 3-1/Wellbore #

Created By: Rusty Hanna Date: 2008-6-24

PROJECT DETAILS: UTAH

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302

System Datum: Mean Sea Level
Local North: No north reference data is available

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5900.0	0.00	0.00	5900.0	0.0	0.0	0.00	0.00	0.0	
3	6566.7	10.00	39.63	6563.3	44.7	37.0	1.50	39.63	58.0	
4	9005.4	10.00	39.63	8965.0	370.8	307.2	0.00	0.00	481.5	
5	9672.1	0.00	0.00	9628.3	415.5	344.2	1.50	180.00	539.5	
6	9743.8	0.00	0.00	9700.0	415.5	344.2	0.00	0.00	539.5	Twin Creek
7	16043.8	0.00	0.00	16000.0	415.5	344.2	0.00	0.00	539.5	

OXY USA RMAT

UTAH
BURRVILLE
BURRVILLE FEDERAL 3-1
Wellbore #1

Plan: Plan #1

Survey Report - Geographic

24 June, 2008

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Project UTAH, SEVIER COUNTY

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site BURRVILLE

Site Position:		**Northing:**	121,197.49 ft	**Latitude:**	38.665
From:	Lat/Long	**Easting:**	1,887,694.17 ft	**Longitude:**	-111.893
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	-0.25 °

Well BURRVILLE FEDERAL 3-1

Well Position	**+N/-S**	0.0 ft	**Northing:**	121,924.00 ft	**Latitude:**	38.667
	+E/-W	0.0 ft	**Easting:**	1,887,367.00 ft	**Longitude:**	-111.894
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	7,604.0 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	1/10/2008	12.19	64.36	51,570

Design Plan #1

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.0	0.0	0.0	39.63

Survey Tool Program **Date** 6/10/2008

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.0	16,043.8	Plan #1 (Wellbore #1)	Copy of MWD1	MWD - Standard

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
100.0	0.00	0.00	100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
200.0	0.00	0.00	200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
300.0	0.00	0.00	300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
400.0	0.00	0.00	400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
500.0	0.00	0.00	500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
600.0	0.00	0.00	600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
700.0	0.00	0.00	700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
800.0	0.00	0.00	800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
900.0	0.00	0.00	900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,000.0	0.00	0.00	1,000.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,100.0	0.00	0.00	1,100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,200.0	0.00	0.00	1,200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,300.0	0.00	0.00	1,300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,400.0	0.00	0.00	1,400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,500.0	0.00	0.00	1,500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,600.0	0.00	0.00	1,600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,700.0	0.00	0.00	1,700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,800.0	0.00	0.00	1,800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
1,900.0	0.00	0.00	1,900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,000.0	0.00	0.00	2,000.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,100.0	0.00	0.00	2,100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,200.0	0.00	0.00	2,200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,300.0	0.00	0.00	2,300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,400.0	0.00	0.00	2,400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,500.0	0.00	0.00	2,500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,600.0	0.00	0.00	2,600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,700.0	0.00	0.00	2,700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,800.0	0.00	0.00	2,800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
2,900.0	0.00	0.00	2,900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,000.0	0.00	0.00	3,000.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
13 3/8" Surface Casing									
3,100.0	0.00	0.00	3,100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,200.0	0.00	0.00	3,200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,300.0	0.00	0.00	3,300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,400.0	0.00	0.00	3,400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,500.0	0.00	0.00	3,500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,600.0	0.00	0.00	3,600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,700.0	0.00	0.00	3,700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,800.0	0.00	0.00	3,800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
3,900.0	0.00	0.00	3,900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,000.0	0.00	0.00	4,000.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,100.0	0.00	0.00	4,100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,200.0	0.00	0.00	4,200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,300.0	0.00	0.00	4,300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,400.0	0.00	0.00	4,400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,500.0	0.00	0.00	4,500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,600.0	0.00	0.00	4,600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,700.0	0.00	0.00	4,700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,800.0	0.00	0.00	4,800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
4,900.0	0.00	0.00	4,900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,000.0	0.00	0.00	5,000.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,100.0	0.00	0.00	5,100.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,200.0	0.00	0.00	5,200.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,300.0	0.00	0.00	5,300.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,400.0	0.00	0.00	5,400.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,500.0	0.00	0.00	5,500.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,600.0	0.00	0.00	5,600.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,700.0	0.00	0.00	5,700.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,800.0	0.00	0.00	5,800.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
5,900.0	0.00	0.00	5,900.0	0.0	0.0	121,924.00	1,887,367.00	38.667	-111.894
6,000.0	1.50	39.63	6,000.0	1.0	0.8	121,925.00	1,887,367.84	38.667	-111.894
6,100.0	3.00	39.63	6,099.9	4.0	3.3	121,928.02	1,887,370.36	38.667	-111.894
6,200.0	4.50	39.63	6,199.7	9.1	7.5	121,933.04	1,887,374.55	38.667	-111.894
6,300.0	6.00	39.63	6,299.3	16.1	13.3	121,940.06	1,887,380.42	38.667	-111.894
6,400.0	7.50	39.63	6,398.6	25.2	20.8	121,949.07	1,887,387.96	38.667	-111.894
6,500.0	9.00	39.63	6,497.5	36.2	30.0	121,960.08	1,887,397.16	38.667	-111.894
6,566.7	10.00	39.63	6,563.3	44.7	37.0	121,968.53	1,887,404.21	38.668	-111.894
6,600.0	10.00	39.63	6,596.1	49.1	40.7	121,972.97	1,887,407.93	38.668	-111.894
6,700.0	10.00	39.63	6,694.6	62.5	51.8	121,986.29	1,887,419.06	38.668	-111.894
6,800.0	10.00	39.63	6,793.1	75.9	62.9	121,999.62	1,887,430.20	38.668	-111.894
6,900.0	10.00	39.63	6,891.6	89.3	73.9	122,012.94	1,887,441.33	38.668	-111.894
7,000.0	10.00	39.63	6,990.0	102.6	85.0	122,026.27	1,887,452.47	38.668	-111.894
7,100.0	10.00	39.63	7,088.5	116.0	96.1	122,039.59	1,887,463.60	38.668	-111.894
7,200.0	10.00	39.63	7,187.0	129.4	107.2	122,052.91	1,887,474.74	38.668	-111.894
7,300.0	10.00	39.63	7,285.5	142.8	118.2	122,066.24	1,887,485.87	38.668	-111.894
7,400.0	10.00	39.63	7,384.0	156.1	129.3	122,079.56	1,887,497.01	38.668	-111.894
7,500.0	10.00	39.63	7,482.4	169.5	140.4	122,092.89	1,887,508.15	38.668	-111.894
7,600.0	10.00	39.63	7,580.9	182.9	151.5	122,106.21	1,887,519.28	38.668	-111.894
7,700.0	10.00	39.63	7,679.4	196.3	162.6	122,119.53	1,887,530.42	38.668	-111.894
7,800.0	10.00	39.63	7,777.9	209.6	173.6	122,132.86	1,887,541.55	38.668	-111.894
7,900.0	10.00	39.63	7,876.4	223.0	184.7	122,146.18	1,887,552.69	38.668	-111.894
8,000.0	10.00	39.63	7,974.8	236.4	195.8	122,159.51	1,887,563.82	38.668	-111.894
8,100.0	10.00	39.63	8,073.3	249.7	206.9	122,172.83	1,887,574.96	38.668	-111.894
8,200.0	10.00	39.63	8,171.8	263.1	217.9	122,186.16	1,887,586.10	38.668	-111.894
8,300.0	10.00	39.63	8,270.3	276.5	229.0	122,199.48	1,887,597.23	38.668	-111.894
8,400.0	10.00	39.63	8,368.8	289.9	240.1	122,212.80	1,887,608.37	38.668	-111.894
8,500.0	10.00	39.63	8,467.2	303.2	251.2	122,226.13	1,887,619.50	38.668	-111.894
8,600.0	10.00	39.63	8,565.7	316.6	262.2	122,239.45	1,887,630.64	38.668	-111.894
8,700.0	10.00	39.63	8,664.2	330.0	273.3	122,252.78	1,887,641.77	38.668	-111.893
8,800.0	10.00	39.63	8,762.7	343.4	284.4	122,266.10	1,887,652.91	38.668	-111.893
8,900.0	10.00	39.63	8,861.2	356.7	295.5	122,279.42	1,887,664.05	38.668	-111.893
9,000.0	10.00	39.63	8,959.7	370.1	306.6	122,292.75	1,887,675.18	38.668	-111.893
9,005.4	10.00	39.63	8,965.0	370.8	307.2	122,293.47	1,887,675.79	38.668	-111.893
9,100.0	8.58	39.63	9,058.3	382.6	316.9	122,305.19	1,887,685.58	38.668	-111.893
9,200.0	7.08	39.63	9,157.4	393.1	325.6	122,315.64	1,887,694.31	38.668	-111.893
9,300.0	5.58	39.63	9,256.8	401.6	332.6	122,324.10	1,887,701.39	38.668	-111.893
9,400.0	4.08	39.63	9,356.4	408.1	338.0	122,330.57	1,887,706.79	38.669	-111.893
9,500.0	2.58	39.63	9,456.2	412.5	341.7	122,335.03	1,887,710.51	38.669	-111.893
9,600.0	1.08	39.63	9,556.2	415.0	343.7	122,337.48	1,887,712.56	38.669	-111.893
9,672.1	0.00	0.00	9,628.3	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
9,700.0	0.00	0.00	9,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
9,743.8	0.00	0.00	9,700.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
Twin Creek									
9,800.0	0.00	0.00	9,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
9,900.0	0.00	0.00	9,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,000.0	0.00	0.00	9,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,043.8	0.00	0.00	10,000.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
Navajo									
10,100.0	0.00	0.00	10,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
10,200.0	0.00	0.00	10,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,300.0	0.00	0.00	10,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,400.0	0.00	0.00	10,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,500.0	0.00	0.00	10,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,600.0	0.00	0.00	10,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,700.0	0.00	0.00	10,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,800.0	0.00	0.00	10,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
10,900.0	0.00	0.00	10,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,000.0	0.00	0.00	10,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,043.8	0.00	0.00	11,000.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
9 5/8" Intermediate Casing									
11,100.0	0.00	0.00	11,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,200.0	0.00	0.00	11,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,300.0	0.00	0.00	11,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,400.0	0.00	0.00	11,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,500.0	0.00	0.00	11,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,600.0	0.00	0.00	11,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,700.0	0.00	0.00	11,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,800.0	0.00	0.00	11,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
11,900.0	0.00	0.00	11,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,000.0	0.00	0.00	11,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,100.0	0.00	0.00	12,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,200.0	0.00	0.00	12,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,300.0	0.00	0.00	12,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,400.0	0.00	0.00	12,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,500.0	0.00	0.00	12,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,600.0	0.00	0.00	12,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,700.0	0.00	0.00	12,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,800.0	0.00	0.00	12,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
12,900.0	0.00	0.00	12,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,000.0	0.00	0.00	12,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,100.0	0.00	0.00	13,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,200.0	0.00	0.00	13,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,300.0	0.00	0.00	13,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,400.0	0.00	0.00	13,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,500.0	0.00	0.00	13,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,600.0	0.00	0.00	13,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,700.0	0.00	0.00	13,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,800.0	0.00	0.00	13,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
13,900.0	0.00	0.00	13,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,000.0	0.00	0.00	13,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,100.0	0.00	0.00	14,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,200.0	0.00	0.00	14,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,300.0	0.00	0.00	14,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,400.0	0.00	0.00	14,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,500.0	0.00	0.00	14,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,600.0	0.00	0.00	14,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,700.0	0.00	0.00	14,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,800.0	0.00	0.00	14,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
14,823.8	0.00	0.00	14,780.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
Kaibab									
14,900.0	0.00	0.00	14,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,000.0	0.00	0.00	14,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,100.0	0.00	0.00	15,056.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,200.0	0.00	0.00	15,156.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
15,300.0	0.00	0.00	15,256.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,400.0	0.00	0.00	15,356.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,500.0	0.00	0.00	15,456.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,600.0	0.00	0.00	15,556.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,700.0	0.00	0.00	15,656.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,800.0	0.00	0.00	15,756.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
15,900.0	0.00	0.00	15,856.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
16,000.0	0.00	0.00	15,956.2	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
16,043.8	0.00	0.00	16,000.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
5 1/2" Production Casing									

OXY Permian

Survey Report - Geographic

Company:	OXY USA RMAT	**Local Co-ordinate Reference:**	Well BURRVILLE FEDERAL 3-1
Project:	UTAH	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Well:	BURRVILLE FEDERAL 3-1	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	HOPSPP

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Navajo - plan hits target - Circle (radius 300.0)	0.00	0.00	10,000.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
Twin Creek - plan hits target - Circle (radius 300.0)	0.00	0.00	9,700.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893
Kaibab - plan hits target - Circle (radius 300.0)	0.00	0.00	14,780.0	415.5	344.2	122,338.00	1,887,713.00	38.669	-111.893

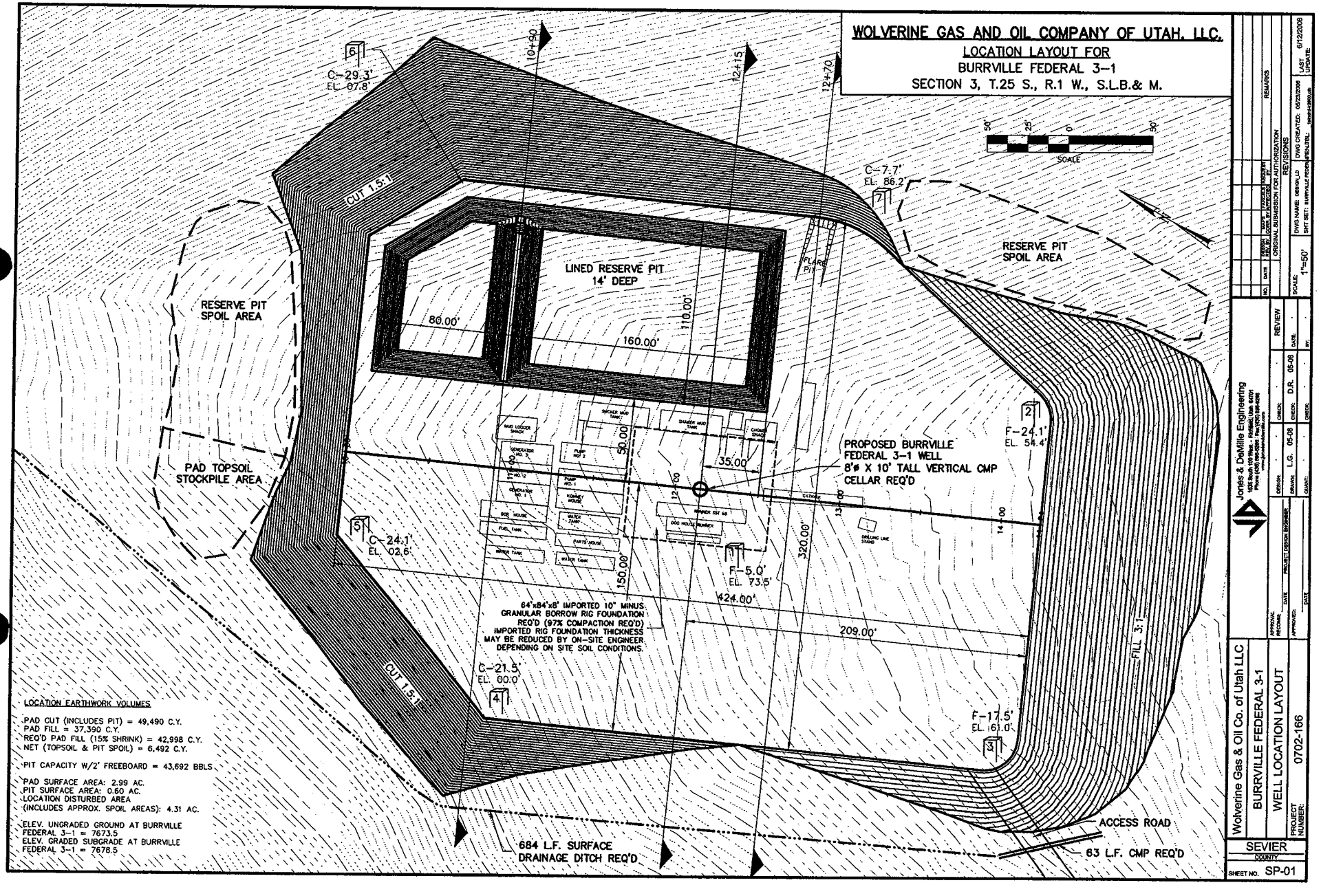
Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,000.0	3,000.0	13 3/8" Surface Casing	13.375	17.500
11,043.8	11,000.0	9 5/8" Intermediate Casing	9.625	12.250
16,043.8	16,000.0	5 1/2" Production Casing	5.500	8.500

Formations

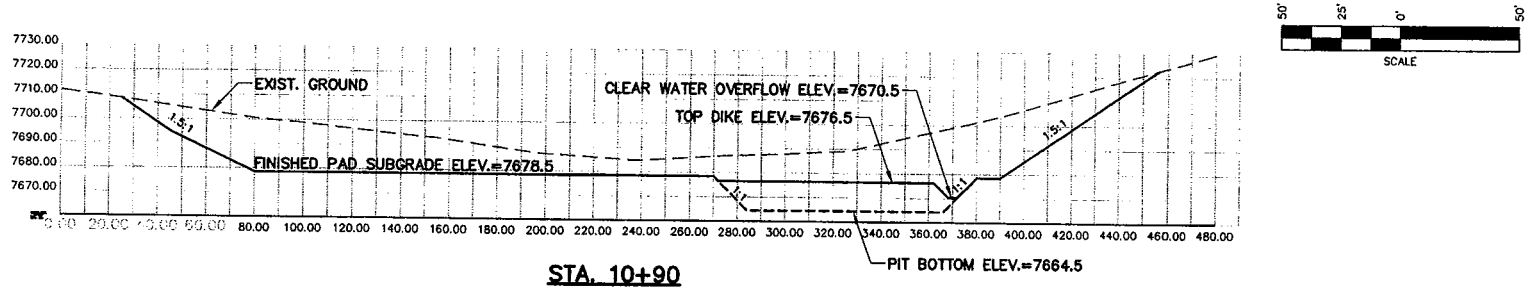
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,000.0	2,000.0	Tertiary		0.00	
4,800.0	4,800.0	Arapien Shale		0.00	
9,743.8	9,700.0	Twin Creek		0.00	
10,043.8	10,000.0	Navajo		0.00	
11,843.8	11,800.0	Chinle		0.00	
12,353.8	12,310.0	Moenkopi		0.00	
13,908.8	13,865.0	Sinbad Member		0.00	
14,273.8	14,230.0	Black Dragon		0.00	
14,823.8	14,780.0	Kaibab		0.00	
15,203.8	15,160.0	Toroweap		0.00	
15,423.8	15,380.0	White Rim		0.00	

Checked By: _____ Approved By: _____ Date: _____

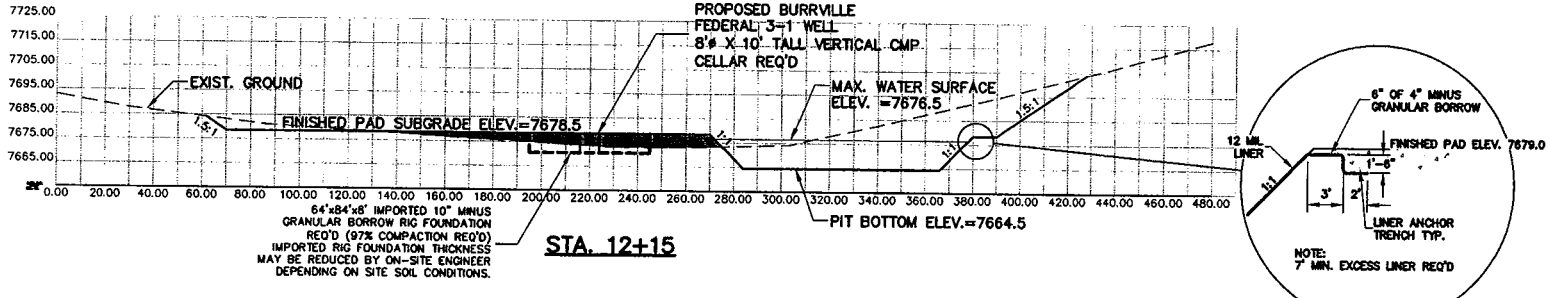

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.
LOCATION LAYOUT FOR
BURRVILLE FEDERAL 3-1
SECTION 3, T.25 S., R.1 W., S.L.B.& M.
SCALE
50' 25' 0 30
C-29.3'
EL. 97.8'
10+30
12+15
12+70
CUT 1.5:1
C-7.7'
EL. 86.2'
RESERVE PIT
SPOIL AREA
LINED RESERVE PIT
14' DEEP
80.00'
160.00'
110.00'
CLAY
PIT
RESERVE PIT
SPOIL AREA
PAD TOPSOIL
STOCKPILE AREA
PROPOSED BURRVILLE
FEDERAL 3-1 WELL
8'ø X 10' TALL VERTICAL CMP
CELLAR REQ'D
F-24.1'
EL. 54.4'
35.00'
C-24.1'
EL. 02.6'
F-5.0'
EL. 73.5'
320.00'
424.00'
209.00'
64'x84'x8' IMPORTED 10" MINUS
GRANULAR BORROW RIG FOUNDATION
REQ'D (97% COMPACTION REQ'D)
IMPORTED RIG FOUNDATION THICKNESS
MAY BE REDUCED BY ON-SITE ENGINEER
DEPENDING ON SITE SOIL CONDITIONS.
C-21.5'
EL. 00.0'
F-17.5'
EL. 61.0'
FILL 3:1
CUT 1.5:1
ACCESS ROAD
684 L.F. SURFACE
DRAINAGE DITCH REQ'D
63 L.F. CMP REQ'D
LOCATION EARTHWORK VOLUMES
PAD CUT (INCLUDES PIT) = 49,490 C.Y.
PAD FILL = 37,390 C.Y.
REQ'D PAD FILL (15% SHRINK) = 42,998 C.Y.
NET (TOPSOIL & PIT SPOIL) = 6,492 C.Y.
PIT CAPACITY W/2' FREEBOARD = 43,692 BBLS
PAD SURFACE AREA: 2.99 AC.
PIT SURFACE AREA: 0.60 AC.
LOCATION DISTURBED AREA
(INCLUDES APPROX. SPOIL AREAS): 4.31 AC.
ELEV. UNGRADED GROUND AT BURRVILLE
FEDERAL 3-1 = 7673.5
ELEV. GRADED SUBGRADE AT BURRVILLE
FEDERAL 3-1 = 7678.5
REVISIONS
ORIGINAL SUBMISSION FOR AUTHORIZATION
DWG NAME: DEBRA.LD
DWG CREATED: 05/23/2006
LAST UPDATE: 6/12/2006
SCALE: 1"=50'
Jones & DeMille Engineering
REVIEW
DESIGN: -
DRAWN: L.G. 05-06
QUANT: -
CHECK: -
CHECK: D.R. 05-06
CHECK: -
Wolverine Gas & Oil Co. of Utah LLC
BURRVILLE FEDERAL 3-1
WELL LOCATION LAYOUT
PROJECT NUMBER: 0702-166
SEVIER COUNTY
SHEET NO. SP-01

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

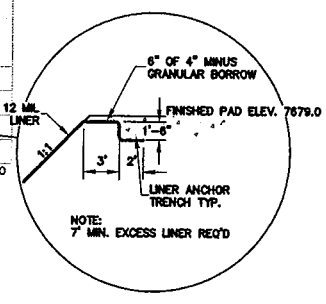
CROSS SECTIONS FOR
BURRVILLE FEDERAL 3-1
SECTION 3, T.25 S., R.1 W., S.L.B.& M.

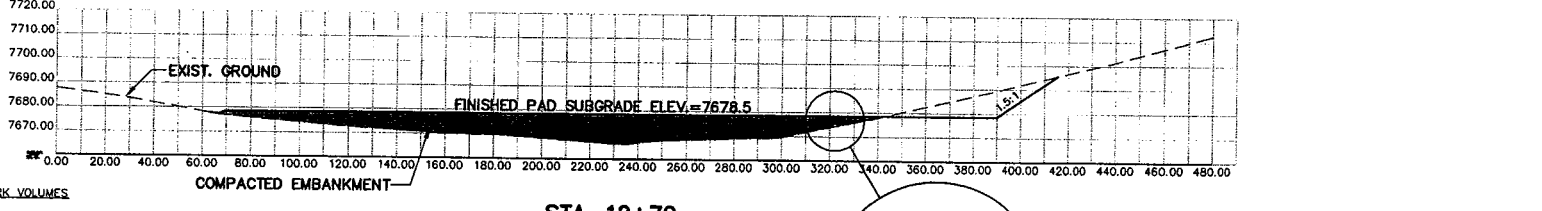


STA. 10+90

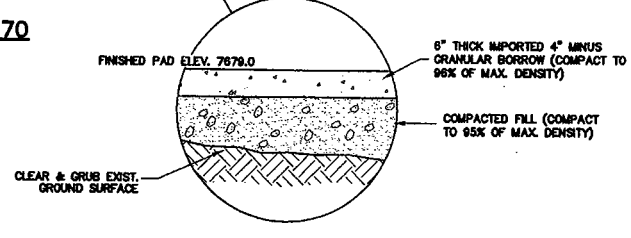


STA. 12+15





STA. 12+70



LOCATION EARTHWORK VOLUMES

PAD CUT (INCLUDES PIT) = 49,490 C.Y.
PAD FILL = 37,390 C.Y.
REQ'D PAD FILL (15% SHRINK) = 42,998 C.Y.
NET (TOPSOIL & PIT SPOIL) = 6,492 C.Y.

PIT CAPACITY W/2' FREEBOARD = 43,692 BBLS

PAD SURFACE AREA: 2.99 AC.
PIT SURFACE AREA: 0.60 AC.
LOCATION DISTURBED AREA
(INCLUDES APPROX. SPOIL AREAS): 4.31 AC.

ELEV. UNGRADED GROUND AT BURRVILLE FEDERAL 3-1 = 7673.5
ELEV. GRADED SUBGRADE AT BURRVILLE FEDERAL 3-1 = 7678.5

NO.	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	REMARKS
					ORIGINAL SUBMISSION FOR AUTHORIZATION

REVISIONS

DWG NAME: DRSHN_LO
DWG CREATED: 05/23/2008
LAST UPDATE: 8/12/2008
SHT SET: BURRVILLE FEDERAL PEN.LWB: ...\sec3-t25r01w.dgn
SCALE: 1"=50'

Jones & DeMille Engineering
1596 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-4266
www.jonesanddemille.com

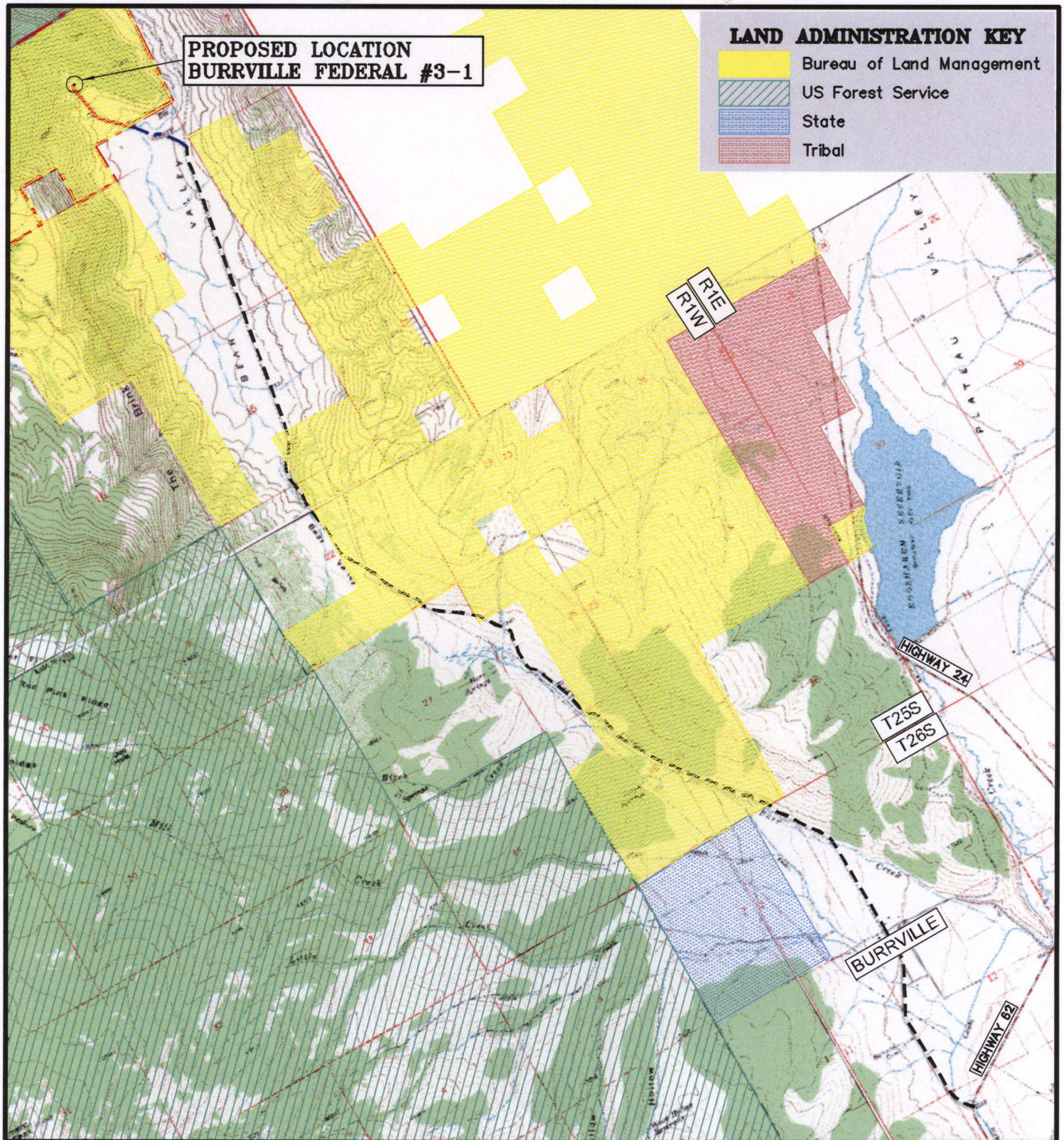
	REVIEW
DESIGN:	CHECK:
DRAWN: L.G. 05-08	CHECK: D.R. 05-08
QUANT:	CHECK:
	DATE:
	BY:

APPROVAL RECOMM. DATE
APPROVED: DATE
PROJECT ENGINEER

Wolverine Gas & Oil Co. of Utah LLC
BURRVILLE FEDERAL 3-1
CROSS SECTIONS
PROJECT NUMBER: 0702-166

SEVIER COUNTY

SHEET NO. CS-01



LEGEND

PROPOSED LOCATION
LEASE BOUNDARY
EXISTING ROADWAY
NEW ROADWAY
EXISTING ROAD NEEDING UPGRADE

Wolverine Burrville Federal #3-1
Section 3, T.25 S., R.1 W., S.L.B. & M.
1569' FNL 2572' FEL

Jones & DeMille Engineering
1535 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-8268
www.jonesanddemille.com

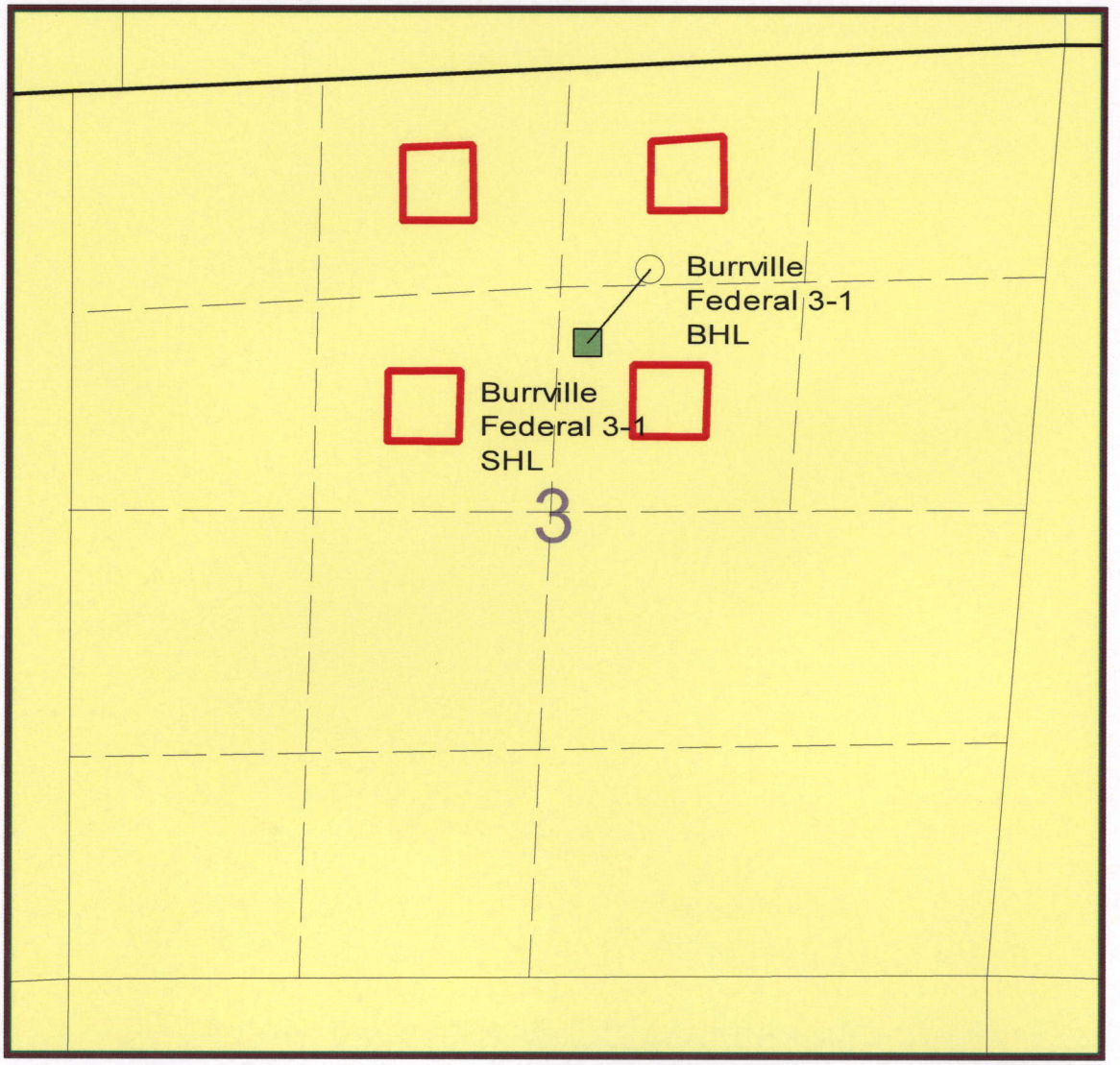
SCALE: 1"=4000'

Wolverine Gas & Oil Co of Utah, LLC

Burrville Federal #3-1

Vicinity Map

DRAWN: L.G. 04-08	PEN TBL: _1stndrd-hp2600.ctb	PROJECT: 0702-166	SHEET:
CHECK: D.R. 04-08	FILE: VIC3-1	LAST UPDATE: 6/12/2008	1



Burrville Federal 3-1 Well Location

SHL: 1569' FNL, 2572' FEL, SW/4 NE/4, Sec. 3, T25S, R1W, Sevier Co., UT

BHL: 1155' FNL, 2225' FEL, NW/4 NE/4 Sec. 3, T25S, R1W, Sevier Co., UT

Wolverine Lease

Proposed
Burrville Federal 3-1 BHL

Proposed
Burrville Federal 3-1 SHL

400' x 400'
R649-3-2 window

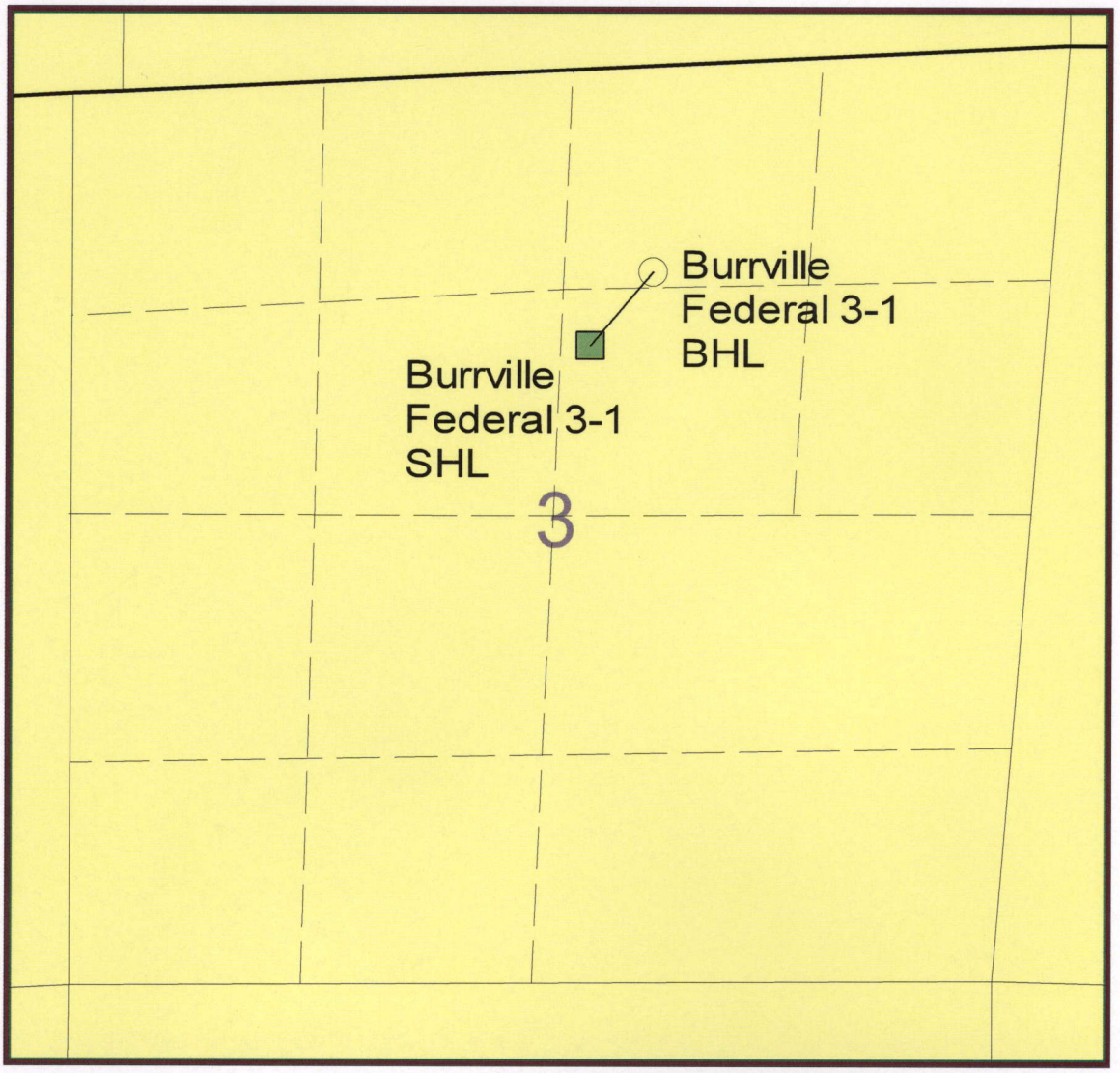
660 0 660 1320 1980 ft

WOLVERINE OPERATING COMPANY
of Utah, LLC
Energy Exploration in Partnership with the Environment

ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Exception Location and Ownership Plat
(R649-3-2)

Date: 6/26/2008	**Author:** **Filename: burrville 3-1 well location**



Burrville Federal 3-1 Well Location

SHL: 1569' FNL, 2572 FEL, SW/4 NE/4, Sec. 3, T25S, R1W, Sevier Co., UT
BHL: 1155' FNL, 2225' FEL, NW/4 NE/4 Sec. 3, T25S, R1W, Sevier Co., UT

Wolverine Lease

Proposed
Burrville Federal 3-1 BHL

Proposed
Burrville Federal 3-1 SHL

660 0 660 1320 1980 ft

WOLVERINE OPERATING COMPANY
of Utah, LLC
Energy Exploration in Partnership with the Environment

ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Directional Drilling Application Plat
(R649-3-11)

Date: 6/26/2008	**Author:** **Filename: burrville 3-1 well location**

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/30/2008

API NO. ASSIGNED: 43-041-30059

WELL NAME: BURRVILLE FED 3-1

OPERATOR: WOLVERINE OPERATING CO (N3035)

PHONE NUMBER: 435-896-1943

CONTACT: PAUL SPIERING

PROPOSED LOCATION:

SWNE 03 250S 010W

SURFACE: 1569 FNL 2572 FEL

BOTTOM: 1155 FNL 2225 FEL

NW NE

COUNTY: SEVIER

LATITUDE: 38.66733 LONGITUDE: -111.8944

UTM SURF EASTINGS: 422188 NORTHINGS: 4280033

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-81360

PROPOSED FORMATION: KBAB

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY3329)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 61-2175)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit:

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

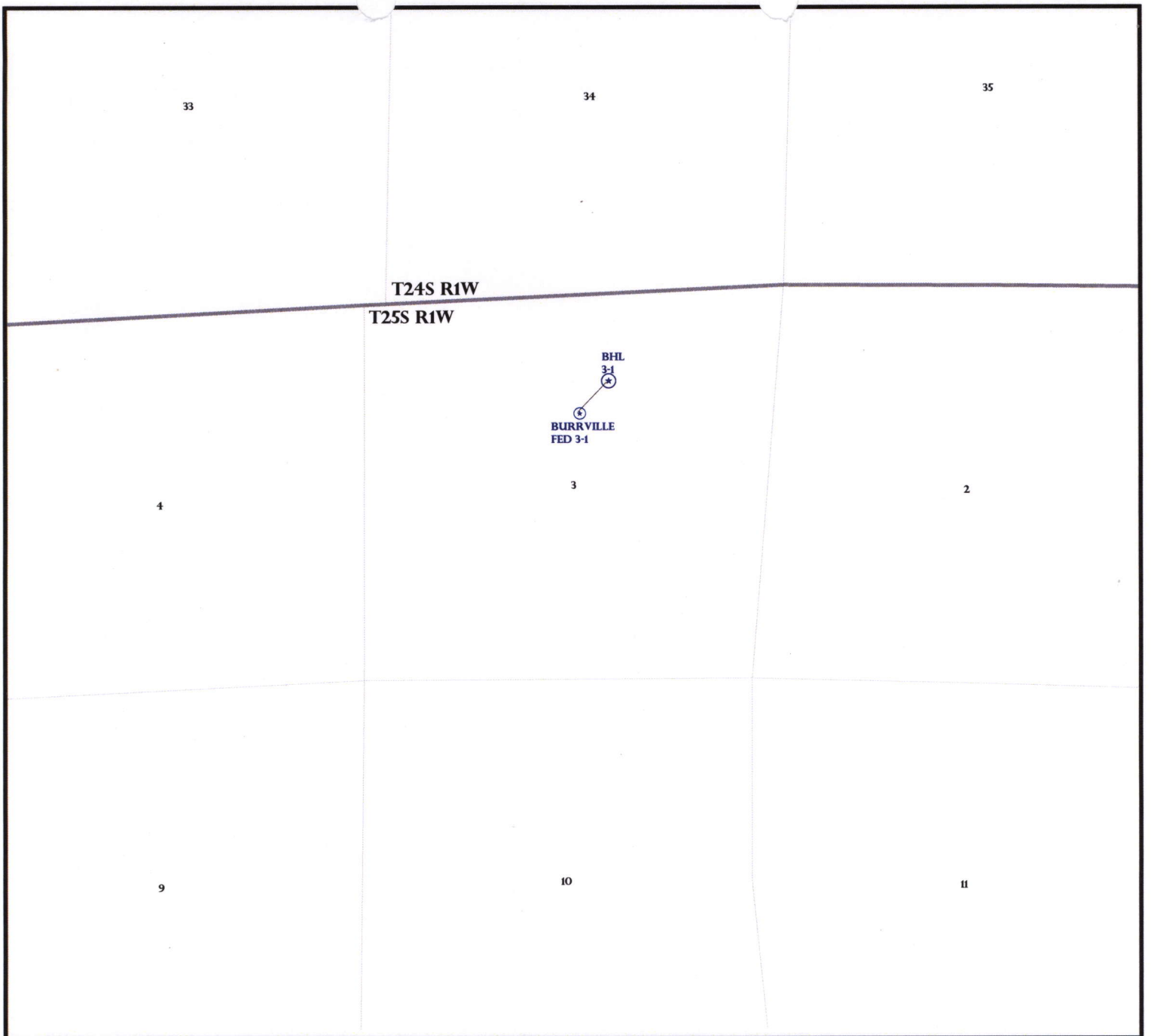
___ R649-3-3. Exception

___ Drilling Unit
Board Cause No:
Eff Date:
Siting:

✓ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1. Federal Approval
2 Spacing Stip



OPERATOR: WOLVERINE OPER CO (N3035)

SEC: 3 T.25S R. 1W

FIELD: WILDCAT (001)

COUNTY: SEVIER

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 16-JULY-2008

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 16, 2008

Wolverine Operating Company of Utah, LLC
1140 N Centennial Park Dr.
Richfield, UT 84701

Re: Burrville Federal 3-1 Well, Surface Location 1569' FNL, 2572' FEL, SW NE, Sec. 3, T. 25 South, R. 1 West, Bottom Location 1155' FNL, 2225' FEL, NW NE, Sec. 3, T. 25 South, R. 1 West, Sevier County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-041-30059.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Sevier County Assessor
Bureau of Land Management, Utah State Office

Operator: Wolverine Operating Company of Utah, LLC

Well Name & Number Burrville Federal 3-1

API Number: 43-041-30059

Lease: UTU-81360

Surface Location:	SW NE	**Sec.** 3	**T.** 25 South	**R.** 1 West
Bottom Location:	NW NE	**Sec.** 3	**T.** 25 South	**R.** 1 West

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

WOLVERINE OPERATING COMPANY OF UTAH, LLC

Energy Exploration in Partnership with the Environment

July 15, 2008

Mr. Gil Hunt
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Amendment to Application for Permit to Drill
Wolverine Operating Company of Utah, LLC
Burrville Federal 3-1
SW/4 NE/4, Section 3, T25S, R1W, SLB&M
Sevier County, Utah

Dear Mr. Hunt:

At the request of the Richfield Field office of the BLM Wolverine Operating Company of Utah, LLC (Wolverine) has moved the surface location of the above captioned well from the site originally proposed in the APD submitted June 25, 2008, to the location shown in the attached materials. Wolverine hereby submits a copy of a revised *Application for Permit to Drill* (APD) for the referenced well. Included with this APD is the following supplemental information:

- R649-3-2 Exception Plat showing proposed BHL;
- R649-3-11 Directional Drilling Application Plat showing proposed BHL;
- Revised BLM Surface Use Plan of Operations;
- Revised Survey Plat;
- Revised Drilling Plan, BOPE Diagram, and Directional Plan;
- Revised Location Layout and Pad Cross-Section Drawings;
- Revised Vicinity Map
- H_2S Contingency Plan, per Onshore Order 6

RECEIVED
JUL 2 2 2008
DIV. OF OIL, GAS & MINING

Wolverine Operating Company of Utah, LLC
1140 N Centennial Park Drive. Richfield, Utah 84701. Phone: 435-896-1943, Fax: 435-893-2134

The Burrville Irrigation Company (User Number 61- 2175) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is administered by the Bureau of Land Management.

The proposed location is within 460' of a drilling unit boundary, so a request for exception to spacing (R649-3-2) is hereby requested for the well based on restrictive topography relative and the need to drill at an optimum structural location. Wolverine is the only owner and operator within 460' of the proposed well location.

This letter and the accompanying plats are also intended to serve as an application for directionally drilling the well per R649-3-11. Wolverine is the owner of all oil and gas within 460 feet from all points along the intended wellbore for the well. Information relating to R649-3-11 is as follows:

Operator: Wolverine Operating Company of Utah, LLC

Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Well: Burrville Federal 3-1

Field: NA (Wildcat)

Reservoir: NA (Wildcat)

County: Sevier

Reason: Restrictive topography and to minimize surface impact

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

Thank you for consideration of this revised application. Please feel free to contact me or Paul Spiering of this office if you have any questions or need additional information.

Sincerely,

Charlie Irons
Senior Landman

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

5. Lease Serial No.: UTU-81360

6. If Indian, Allotee or Tribe Name: N/A

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: N/A

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: Burrville Federal 3-1

2. Name of Operator: Wolverine Operating Company of Utah, LLC

9. API Well No.: 43-041-30059

3a. Address: 1140 N Centennial Park Drive, Richfield, Utah 84701

3b. Phone No. *(include area code)*: 435-896-1943

10. Field and Pool, or Exploratory: Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: 2313' FNL, 2194' FEL, being in SW4NE4

At proposed prod. zone: 1155' FNL, 2225' FEL, being in NW4NE4

11. Sec., T. R. M. or Blk. and Survey or Area: Section 3, T25S, R1W, SLB&M

14. Distance in miles and direction from nearest town or post office*: 8 miles north of Burrville, Utah

12. County or Parish: Sevier

13. State: UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1155'

16. No. of acres in lease: 1,596.92

17. Spacing Unit dedicated to this well: 40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: None

19. Proposed Depth: 16,050' (16,000' TVD)

20. BLM/BIA Bond No. on file: BLM WY3329

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 7,605.2 GR

22. Approximate date work will start*: 12/01/2008

23. Estimated duration: 120 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature: Paul Spiering — Name *(Printed/Typed)*: Paul Spiering — Date: 07/15/2008

Title: District Land Manager

Approved by *(Signature)*: Bradley G. Hill — Name *(Printed/Typed)*: BRADLEY G. HILL — Date: 07-31-08

Title — Office: ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2) COPY SENT TO OPERATOR

*(Instructions on page 2)

Date: 8.4.2008

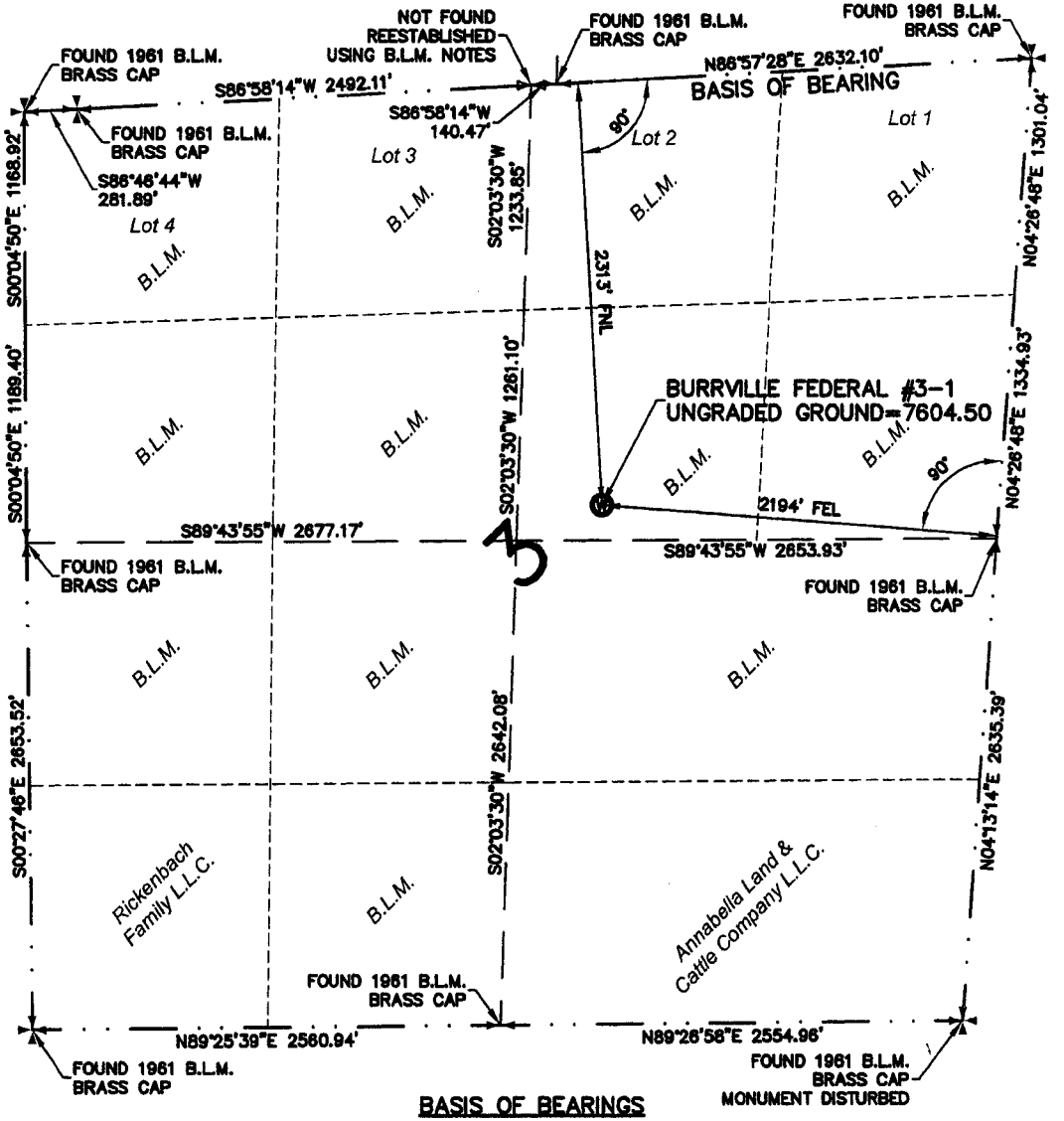
Initials: KS

Surf
422286 X
4279813 Y
38.665351
-111.893256

RECEIVED
JUL 22 2008
DIV OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

Section 3, T.25 S., R.1 W., S.L.B. & M.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N86°57'28"E BETWEEN THE NORTH QUARTER CORNER AND THE NORTHEAST CORNER OF SECTION 3, T.25 S., R.1 W., S.L.B. & M.
WELL COORDINATES: LATITUDE = 38°39'55.29061" (38.66535850) NAD 83 – UTM ZONE 12N NAD27 N 14041364.647
LONGITUDE = -111°53'38.48651" (-111.89402403) NAD 83 – UTM ZONE 12N NAD27 E 1385444.335

PROJECT

Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATION, LOCATED AS SHOWN IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

LEGEND

- = SECTION CORNERS LOCATED
- = QUARTER SECTION CORNERS LOCATED
- (W) = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE BURRVILLE FEDERAL #3-1 LOCATION LOCATED IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88

1000' 500' 0' 1000'
SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF ~~MY KNOWLEDGE~~ AND BELIEF.

PROFESSIONAL LAND SURVEYOR TREVOR ROY GADD NO. 5143839 STATE OF UTAH

TREVOR R. GADD, L.S. #5143839 — DATE 07/08/08

Jones & Demille Engineering
1535 South 100 West – Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
www.jonesanddemille.com

Well Location Plat for

Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
–	W.H.H.	T.R.G.	T.W.G.	0702-166	1
DATE		DWG.NAME	SCALE		
07/08/08		NEWBURR...	1"=1000'		

OXY USA Inc.

DRILLING PLAN

Burrville Federal 3-1
SW/4 NE/4 Section 3, Township 25 South, Range 1 West, S.L.B & M.
Sevier County, Utah

Plan Summary:

It is planned to drill this confidential exploration well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 16,100' (16,000' TVD) to test the Kaibab formation. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated.

The planned location is as follows:

Surface Location:	2313' FNL, 2194' FEL, Section 3, T25S, R1W, S.L.B. & M.
Bottom Hole Location @ top target (Navajo)	1155' FNL, 2225' FEL, Section 3, T25S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	1155' FNL, 2225' FEL, Section 3, T25S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet and cemented to surface. A 17-1/2" hole will be drilled vertically to approximately 3000' where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled vertically to 3200' where the well will build to 12 degrees from vertical and hold 12 degrees to approximately 8700'. At 8700' the well will begin to drop to vertical and be back to vertical by 9400'. The well will continue to be drilled vertically to approximately 11110' (11000' TVD) where the well will be logged and 9-5/8" intermediate casing will be set and cemented to 2700' (13-3/8" csg shoe). An 8-1/2" hole will be drilled vertically to a total depth of 16115' (16000' TVD). The hole will again be logged and a 5-1/2" production liner set from total depth of 16115' to top of liner at approximately 10800' (300' overlap in 9-5/8"). The liner will be cemented in place.

Drilling activities at this well are expected to commence as early as October, 2008 if regulatory approvals are obtained.

Well Name: **Burrville Federal 3-1**

Surface Location: 2313' FNL, 2194' FEL
SW/4 NE/4 Section 3, T25S, R1W, S.L.B. & M.
Sevier County, Utah

TD Bottom-Hole Location: 1155' FNL, 2225' FEL

Elevations (est): 7604' GL, 7636' KB

I. Geology:

Tops of important geologic markers and anticipated water, oil, gas, and mineral content are as follows:

Formation	TVD Interval (KB)	MD Interval (KB)	Contents	Pressure Gradient
Arapien	26' – 9700'	26' – 9750'		
Twin Creek	9700' – 10000'	9750' – 10050'	Oil & water	0.44 psi/ft
Navajo	10000' – 11800'	10050' – 11850'	Oil & water	0.44 psi/ft
Chinle	11800' – 12310'	11850' – 12360'		
Moenkopi	12310' – 13865'	12360' – 13915'		
Sinbad Member	13865' – 14230'	13915' – 14280'		
Black Dragon	14230' – 14780'	14280' – 14830'		
Kaibab	14780' – 15160'	14830' – 15210'	Oil & water	0.44 psi/ft
Toroweap	15160' – 15380'	15210' – 15430'	Oil & water	0.44 psi/ft
White Rim	15380' – 16000'	15430' – 16115'	Oil & water	0.44 psi/ft
Total Depth	16000'	16115'		

II. Well Control:

The contracted drilling rig has a 10M BOP system but conditions only require a 5M BOP system. BOPE will be in place and tested as a 5M system prior to drilling out the surface casing shoe. See attached schematic of BOPE.

A. The BOPE will, as a minimum, include the following:

Wellhead Equipment (5M Min.):

BOPE Item	Flange Size and Rating
Annular Preventer	13-5/8" 5M
Double Rams (5" Pipe - top, Blind - bottom)	13-5/8" 10M
Drilling Spool w/ 2 side outlets (4" Choke Line, 4" Kill Line)	13-5/8" 10M x 13-5/8" 10M
Single Ram (Pipe)	13-5/8" 10M
Spacer Spool	13-5/8" 10M x 13-5/8" 10M
Casing Spool (Multi-Bowl)	13-5/8" 10M x 13-5/8" 5M
Casing Head (13-3/8" SOW w/ two 2-1/16" SSO's)	13-5/8" 5M

Auxiliary Equipment (5M Min.):

BOPE Item
Choke Line with 2 valves (3" minimum)
Kill Line with 2 valves and one check valve (2" Minimum)

2 Chokes with one remotely controlled at a location readily accessible to the driller
Safety Valves to fit all drill string connections in use
Inside BOP or float sub
Pressure gauge on choke manifold
Fill-up line above the uppermost preventer
Wear bushing in casing head

B. **Choke manifold** will be functionally equipped and sized at a minimum as shown on the attached diagram. All choke lines will be straight lines unless turns have tee blocks or are targeted with running tees, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow.

C. **System accumulator** will have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer (3 ram system will have added 50 percent safety factor to compensate for any fluid loss in the control system or preventers) and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing unit pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. The accumulator will have two (2) independent power sources available to close the preventers. Nitrogen bottles may be one of those sources, and if so, will have charge maintained per manufacturer's specifications.

D. **Accumulator pre-charge pressure test** will be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum specified limits. Only nitrogen gas will be used to precharge.

E. **Power for the closing unit pumps** will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the pre-set level.

F. **Accumulator pump capacity** will be such that, with the accumulator system isolated from service, the pumps will be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and retaining a minimum of 200 psi above the specified accumulator pre-charge pressure.

G. **Locking devices**, either manual (i.e., hand wheels) or automatic, will be installed on the ram type preventers. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

H. **Remote controls** will be readily accessible to the driller and will be capable of both opening and closing all preventers. Master controls shall be at the accumulator and shall be capable of opening and closing all preventers and the choke line valve.

I. **Well control equipment testing** will be performed using clear water when the equipment is initially installed, whenever any seal subject to test pressure is broken, following related repairs, and as a minimum, every 30-day interval. The tests will apply to all related well control equipment.

Ram type preventers and associated equipment will be isolated and tested to 5000 psi. The annular preventer will be tested to 2500 psi. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer, for all tests. A casing head valve will be open below the test plug during testing of the BOP stack. Valves will be tested from the working pressure side with all down-stream valves open. Kill line valves will be tested with the check valve held open or the ball removed.

Pipe and blind rams will be activated each trip, but not more than once a day. The annular preventers will be functionally operated at least weekly. A pit level drill will be conducted weekly for each crew. All BOPE drills and tests will be recorded in the IADC driller's log.

III. Casing and Cementing:

A. Casing Program (all new casing):

Hole Size	Casing Size	Weight	Grade	Connection	Coupling Diameter	Setting Depth
30"	20"		Conductor			120' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	3000' KB
12.25"	9.625"	53.5	HCL-80	BTC	10.625"	11110' KB
8.50"	5.500"	20	L-80	LTC	6.050"	16115' KB

	Surface	Intermediate	Prod Liner
Casing O. D. (in)	13.375	9.625	5.500
Casing Grade	J-55	HCL-80	L-80
Weight of Pipe (lbs/ft)	68.0	53.5	20.0
Connection	BTC	BTC	LTC
Top Setting Depth - MD (ft)	0	0	10800
Top Setting Depth - TVD (ft)	0	0	10685
Bottom Setting Depth - MD (ft)	3000	11110	16115
Bottom Setting Depth - TVD (ft)	3000	11000	16000
Maximum Mud Weight - Inside (ppg)	9.2	10.5	9.0
Maximum Mud Weight - Outside (ppg)	9.2	10.5	9.0
Design Cement Top - MD (ft)	0	2700	13000
Design Cement Top - TVD (ft)	0	2700	13000
Max. Hydrostatic Inside w/ Dry Outside (psi)	1435	6006	7488
Casing Burst Rating (psi)	3450	7390	9190
Burst Safety Factor (1.10 Minimum)	**2.40**	**1.31**	**1.23**
Max. Hydrostatic Outside w/ Dry Inside (psi)	1435	6006	7488
Collapse Rating	1950	8850	8830
Collapse Safety Factor (1.125 Minimum)	**1.36**	**1.47**	**1.18**
Casing Weight in Air (kips)	204.0	591.2	106.0
Body Yield (kips)	1069	1244	466
Joint Strength (kips)	1140	1414	416
Tension Safety Factor (1.60 Minimum)	**5.59**	**2.10**	**3.92**

Casing with same or greater burst, collapse, and tension rating may be substituted for any of the planned casing sizes depending on availability and actual conditions.

B. Cementing Program

Casing Size	Cement Slurry	Quantity (sks)	Density (ppg)	Yield (ft^3/sk)
13.375"	Lead: CBM Lite	900	10.5	4.12
	Tail: Premium Plus	380	15.6	1.19
9.625"	Stage 2: 50:50 POZ	1200	13.5	1.66
	Stage 1: Premium	1385	15.8	1.29
5.500"	Tail: 50:50 POZ	545	13.4	1.8

Surface: 13-3/8" surface casing will be cemented from setting depth (3000' MD) to surface and topped out with premium cement if necessary. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom four (4) casing joints, then every fourth joint to surface. Water or other preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Intermediate: 9-5/8" intermediate casing will be cemented in two stages from setting depth (11110' MD) to 2700' MD (back into the surface csg shoe). Slurry volume will be based on calipered hole size plus 10% excess. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom four (4) joints of casing and one centralizer per joint across any salt interval. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production: 5-1/2" production casing liner will be cemented in one stage from setting depth (16115') to 13000' (900' above the top productive zone). A minimum of 20 percent silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volume will be based on calipered hole size plus 10% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers as needed across any pay zones. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Other:

- The BLM will be notified at least twenty-four hours prior to running and cementing the surface and production casing strings.

- Actual cement slurries for all casing will be based on final service company recommendations.

- The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.

- Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.

- Surface casing will be tested to 1000 psi before drilling out. All subsequent casing strings will be tested to 1500 psi before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.

- Before drilling more than 20 feet of new hole below each casing string, a pressure integrity test of the casing shoe will be performed to a minimum of the mud weight equivalent anticipated to control the pore pressure to the next casing depth or at total depth of the well.

IV. Mud Program:

Depth	Mud Weight (ppg)	Mud Type	Viscosity	Fluid Loss
0 – 3000'	8.6 – 9.2	Fresh Water	45 – 60	N/C to 12 cc
3000' – 11110'	9.2 – 10.5	Salt Mud	35 – 50	10 to 12 cc
11110' – 16115'	8.8 – 9.0	LSND	35 – 50	6 - 8 cc

A. After mudding up, slow pump rates will be taken daily and recorded in the driller's log.

B. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.

C. Abnormal pressures are not anticipated. In the event such pressures are to be anticipated, electronic/mechanical mud monitoring equipment will be in place and include as a minimum; pit volume totalizer (PVT); stroke counter; and flow sensor.

D. A 24-hour mud engineer will be onsite at all times, mud tests will be performed as needed to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

E. The 10M BOPE system is not required for conditions on this well and use of the trip tank is not anticipated.

F. Gas detecting equipment will be installed in the mud return system, and hydrocarbon gas shall be monitored for pore pressure changes. The presence of Hydrogen Sulfide gas is possible.

G. The need to vent combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located more than 100 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition.

H. Abnormal pressure is not expected. If abnormal pressure is to be anticipated, a mud-gas separator (gas buster) will be installed and operable beginning at a point at least 500 feet above any anticipated hydrocarbon zone of interest.

V. Evaluation:

A. Mud Log: A mud logging unit will be in operation from a depth of approximately 3000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.

B. Drill Stem Tests: No DST's will be taken.

C. Coring: Rotary side-wall cores may be taken at select intervals in conjunction with open-hole logging operations.

D. Wireline Logs: Wireline logs will be run as hole conditions allow from total depth to surface casing to assist in determining lithology and potential for hydrocarbon recovery. The logging tools will at a minimum survey resistivity, gamma radiation, and sonic velocity.

VI. Expected Bottom-Hole Pressure and Abnormal Conditions:

A. Hydrogen Sulfide: Hydrogen Sulfide (H_2S) gas is possible in the deeper geologic formations to be penetrated by this well. A H2S Drilling Operations Plan will be supplemented to this Drilling Plan.

B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.

C. Temperature: Bottom-hole temperature at TD is expected to be approximately 355 °F.

end

SURFACE USE PLAN OF OPERATIONS

For inclusion with Application for Permit to Drill ***Revised July 15, 2008***

Name of Operator:	Wolverine Operating Company of Utah, LLC
Address:	1140 N Centennial Park Drive Richfield, Utah 84701
Well Location:	**Burrville Federal 3-1** 2313' FNL & 2194' FEL, (being in SW/4 NE/4) Section 3, T25S, R1W, SLB&M Sevier County, Utah
Access Road Location:	Access road to be an upgrade to an existing road across private land in the S2SE4 of Section 3 and a new road across BLM land in the NW4SE4 and SW4NE4 of Section 3.

Fee surface use is required for construction of a portion of the access road. State surface use is not required for any portion of the operations. Federal surface use is being requested with the associated Application for Permit to Drill (APD) through the BLM – Richfield Field Office.

The dirt contractor will be provided with an approved copy of the surface use plan of operations and conditions of approval before initiating construction.

A Federal onsite inspection was held Wednesday, June 25, 2008.

Existing Roads:
The vicinity map in the APD packet shows the proposed well location and its proximity to the town of Burrville, Utah (being about 8 miles north of same).

Driving directions: From Sigurd, Utah, travel southerly on SR 24, under Utah Department of Transportation (UDOT) maintenance approximately 22.5 miles to SR 62 (also under UDOT maintenance), follow SR 62 southwest about 1.6 miles to its intersection with Bear Valley Road (a county-maintained Class B paved road), proceed north about 1.2 miles to the center of Burrville and the end of pavement, then travel northerly about 7.8 miles on the county-maintained Class B dirt road to the lease road turnoff on west side of county road. Follow lease road across private land and onto BLM land a distance of .85 miles to wellsite. The surface condition of Bear Valley road is generally considered adequate to bear rig-related traffic, but certain portions will need upgrade and improvement. This will be performed under the conditions of an encroachment permit from Sevier County.

Access Roads to be Constructed and Reconstructed:
Proposed access will require the construction of a new driveway ramp and road from Bear Valley Road across land owned by Annabella Land and Cattle Company to a tie in with an existing two-track road that will be upgraded and improved a distance of 2,361 feet. The existing north and south branches of the "Y" will be obliterated. This work will be performed under terms of an Easement and Right-of-Way Grant that has been signed by the landowner. A new road will be constructed on BLM lease, a distance of 2,301 feet, branching off the existing road to access the wellsite. The new constructed road across BLM land will include one vehicle turnout, to allow opposing traffic to pass. See Typical Section sheet for road design.

Road construction, operation and maintenance will be in compliance with the terms and conditions of the Conditions of Approval, the American Association of State Highway and Transportation (AASHTO) safety standards, and will meet criteria for the Manual of Uniform Traffic Control Devices (MUTCD) manual for signs.

Energy dissipating structures and silt fences will be utilized to minimize erosion that may result from the road construction.

The Operator intends to install a gate across the lease road at its intersection with Bear Valley Road, with set-back sufficient to allow traffic to park off the county road while opening and closing the gate. The gate will be located on private land.

All existing county roads, realigned roads and the new lease road will be maintained and kept in good repair during all phases of operation. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

Location of Existing Wells within a one-mile radius :
There are no wells (oil, gas, water, injection or disposal, producing or being drilled) within a one-mile radius of the proposed location.

Location of Existing and/or Proposed Facilities if Well is Productive:
(a) On well pad –A temporary testing facility may be constructed on this location in the event drilling is successful, consisting of treater/separator, tanks and related components. The facility would be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves would be located inside the berm surrounding the tank battery.
(b) Off well pad – It is not possible to know whether an off-well pad production facility would be necessary in the event of a discovery. The Operator will submit this information for approval at such time as production requirements are known.

Location and Type of Water Supply (Rivers, Creeks, Lakes, Ponds and Wells):
The Operator intends to lease water for drilling purposes from the Burrville Irrigation Company, user number 61-2175. Water will be loaded from a pipeline valve on the west side of Bear Valley Road in the SW4SE4 Section 35-T25S-R1W, and transported by tankers to the location, using county roads and the approved lease road. Should additional water sources be pursued they will be properly permitted through the State of Utah – Division of Water Rights. The BLM will be notified of any changes in water supply.

Construction Materials:
Natural earth materials used for fill on the well pad will be taken from cuts made in construction of the pad. Imported granular borrow from an approved source will be applied to the surface of the well pad and access road where deemed necessary. No construction materials will be removed from federal lands.

Methods for Handling Waste Disposal:
The reserve pit will be used for the disposal of waste mud and drill cuttings. All borehole fluids and salts will be contained in the reserve pit. It will be located in cut material and will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if sharp rock edges result from excavation. The pit liner will overlap the top of the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. After evaporation of fluids, back-fill of sub-soil and compaction to prevent settling will occur within 90 days of cessation of pit use. If necessary, any remaining fluids will be pumped out of the pit and transported off site.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

All rubbish and debris will be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling operations and as needed during such operations. There will be no chemical disposal of

any type.

Self-contained, portable toilets will be used for human waste, and the waste will be disposed at an approved human waste disposal facility. Sanitation will comply with local and state regulations.

Ancillary Facilities:
No ancillary facilities are anticipated at this time.

Well Site Layout:
Pad Location and Layout Drawings in the revised APD packet show the proposed well site layout including location of the reserve pit and access road onto the pad, turnaround areas, parking areas, living facilities, soil material stockpiles, and the orientation of the rig with respect to the pad and other facilities. Cross section sheets in said packet show cuts and fills required for construction, and their relationship to topography. As detailed above under Methods for Handling Waste Disposal, the reserve pit will be lined and appropriate measures as described above will be taken to prevent leakage. The pit will be fenced on three sides during drilling operations and then the fourth side will be immediately fenced when the rig is moved off location.

The pad and road designs would be consistent with BLM specifications.

A pre-construction meeting with responsible company representative and contractors will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked (centerline and exterior boundaries) prior to this meeting.

All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of approval from the BLM under the APD, and terms and conditions of approval from SITLA under the right-of-way grant for the portion of the access road across State land.

All cut and fill slopes will be such that stability can be maintained for the life of the activity.

The stockpiled topsoil (first 6 inches or maximum available) will be isolated in a berm by the well pad. Topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

Water spraying may be implemented if necessary to minimize dust.

Plans for Reclamation of the Surface:
Edges of the access road and stockpiled topsoil will be seeded the first fall.

Interim Reclamation: In the event production is achieved the Operator will perform interim reclamation of the site. Interim reclamation will consist of reclamation of the reserve pit and reclamation of that portion of the well pad not needed for ongoing operations. After evaporation of fluids, the pit will be back-filled with sub-soil and/or rock and compacted to prevent settling. The pit area will be surfaced with granular borrow to render it a usable part of the well pad. All portions of the pad no longer necessary for well workover, testing or treating will be contoured to match the surrounding terrain to the best extent practicable. Stockpiled topsoil will be evenly distributed thereon, scarified and seeded as per BLM conditions of approval.

Final Reclamation: In the event the well is a dry hole, or at such time that all production ceases and the well has been plugged and abandoned, the Operator will perform final reclamation of the site. Final reclamation will consist of reclamation of the reserve pit, the well pad and the new-construction portion of the lease road as it crosses BLM land.

Any accumulation of hydrocarbons in the reserve pit will be removed and recovered for sale unless it is determined by the authorized officer to be waste oil. All waste oil will be disposed of properly at approved facilities. The portion of the reserve pit liner which is exposed above the cuttings will be cut and removed from the site and disposed in an authorized landfill. After evaporation of fluids, the pit will be back-filled with subsoil and/or rock from the reserve pit stockpile and compacted to prevent settling.

Road base material used in the construction of the access road and pad will be removed from the site and disposed in a proper manner. If the reserve pit has adequate capacity, then some or all of the road base material may be buried

in the reserve pit, provided that the granular is not contaminated by oil or other waste materials. The new construction portion of the access road will be contoured using an excavator or similar equipment, rather than simply ripping the surface.

Subsoil from the portions of the well pad that are fill will be pulled up onto the pad in order to reestablish the original slope to the best extent possible. The portions that are cut will be filled to match the original slope of the land to the best extent possible. Topsoil from the stockpile will then be evenly distributed over the entire impacted area, including the new-construction portion of the access road. The entire impacted area will be scarified and seeded in late fall, using the seed mix and methods described in BLM conditions of approval. Final reclamation will take place within 180 days after plugging date of the last well on site, depending on weather, season and other extenuating circumstances.

During the life of the project and until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction, and treatment shall continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.

Surface Ownership:
The surface of the proposed well site and the northerly 2675+/- feet of the access road is federally owned and is administered by the Bureau of Land Management, United States Department of Interior. The access road across the S2SE4 of Section 3-T25S-R1W is owned by Annabella Land and Livestock Company, P.O. Box 89, Annabella, Utah 84711.

Other Information:
The top 6 inches of soil material will be stripped and removed from the new-construction portion of the access road and well pad and stockpiled for future reclamation of the site. This topsoil shall be stockpiled separately from any other excavated materials. It will be reserved for reclamation and not utilized for any other purpose. If it is stockpiled for more than one year it will be seeded with a seed mix approved by the authorized officer.

Heavy equipment used to construct and rehabilitate the well pad and access road will be cleaned and/or sprayed to remove any noxious or invasive weeds and seeds, prior to entering to the project site. Any other equipment and vehicles that have been used in other locations where noxious weeds or seeds could have attached to the equipment will also be sprayed and/or cleaned.

All equipment and vehicles will be confined to the access road and well pad.

Western Land Services will conduct a Class III archeological survey and will submit same under separate cover to the appropriate agencies.

Western Land Services has conducted a wildlife study in coordination with the BLM. Western will prepare an EA for the proposed operation.

No stream alteration or drainage crossings are involved that require additional State or Federal approval.

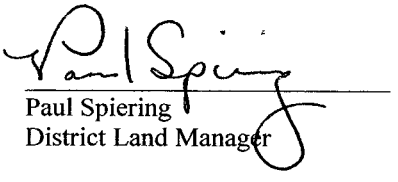
All permanent structures, including pumping units, constructed or installed will be painted a flat, non-reflective color as described on page 40 of the Gold Book (Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development, 4th Edition 2006). Permanent structures are defined as being on location for six months or longer. Facilities required to comply with Occupational Safety and Health Act (OSHA) shall be excluded.

Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire the Richfield Interagency Fire Center (435) 896-8404 will be notified.

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I, or someone under my direct supervision, have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 15th day of July, 2008.

Signature: 

Paul Spiering

Position Title: District Land Manager

Address: Wolverine Operating Company of Utah, LLC
1140 N Centennial Park Drive
Richfield, Utah 84701

Telephone: 435-896-1943

Field representative (same as above signatory)

Paul Spiering

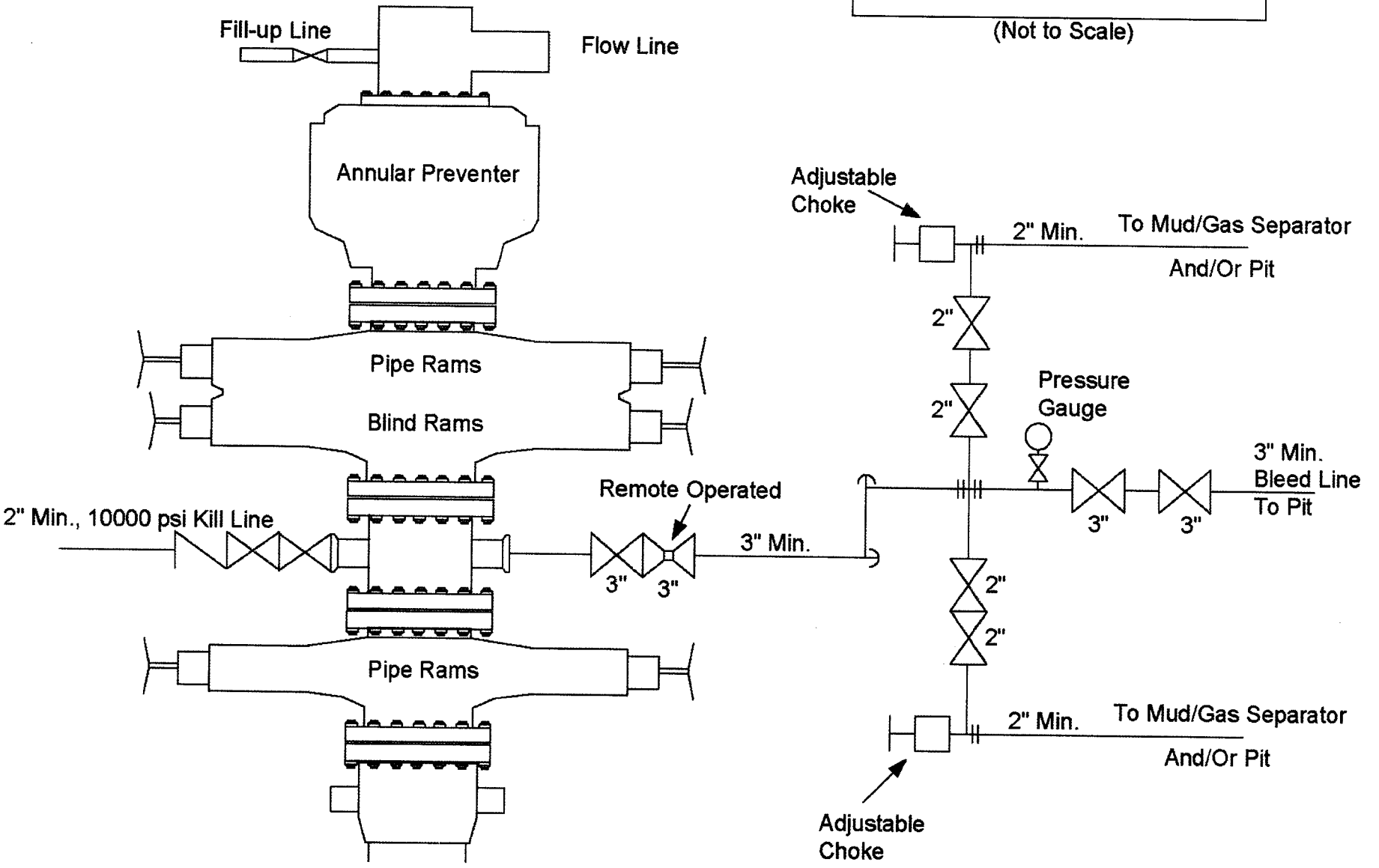
Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Telephone: 435-896-1943

Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.

Burrville Federal 3-1
BOPE Schematic

(Not to Scale)



OXY USA RMAT

Project: UTAH
Site: BURRVILLE
Well: BURRVILLE FEDERAL 3-1
Wellbore: Wellbore #1
Design: Plan #1

T M

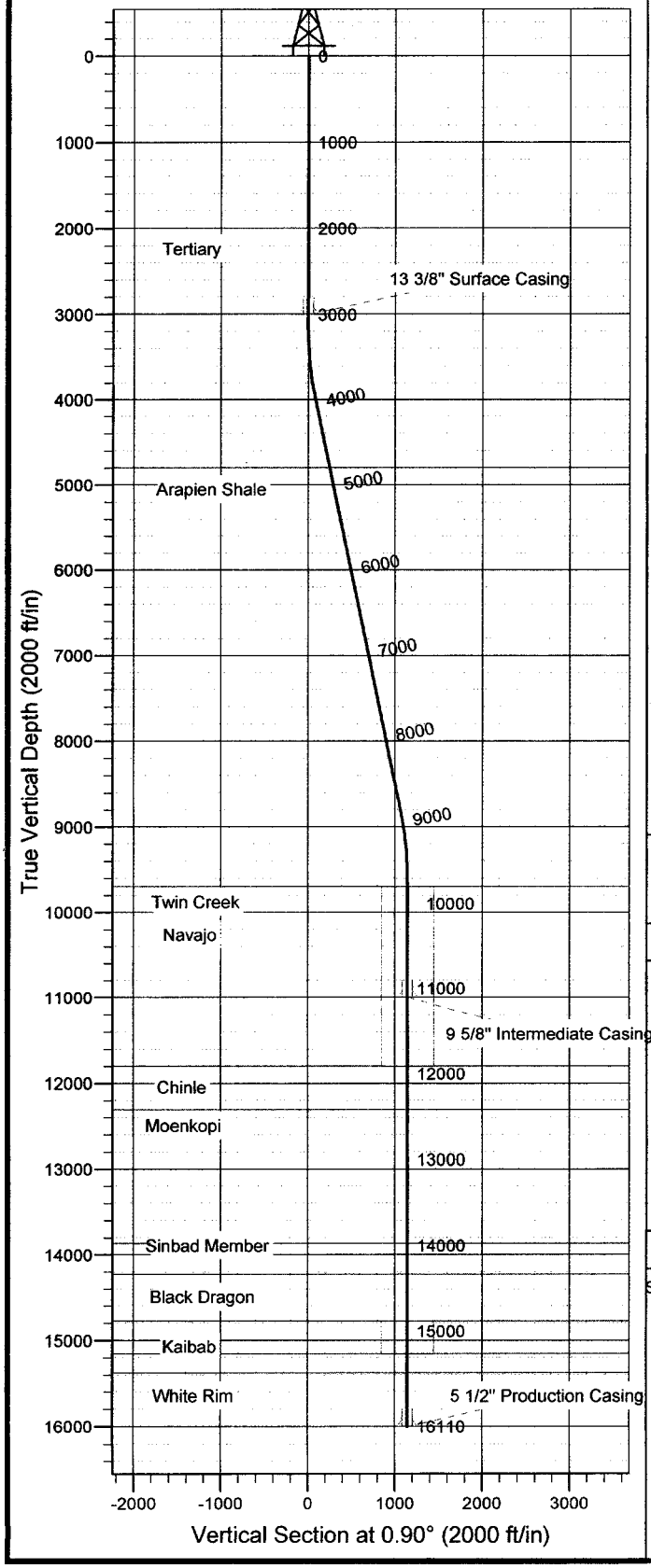
Azimuths to True North
Magnetic North: 12.19°

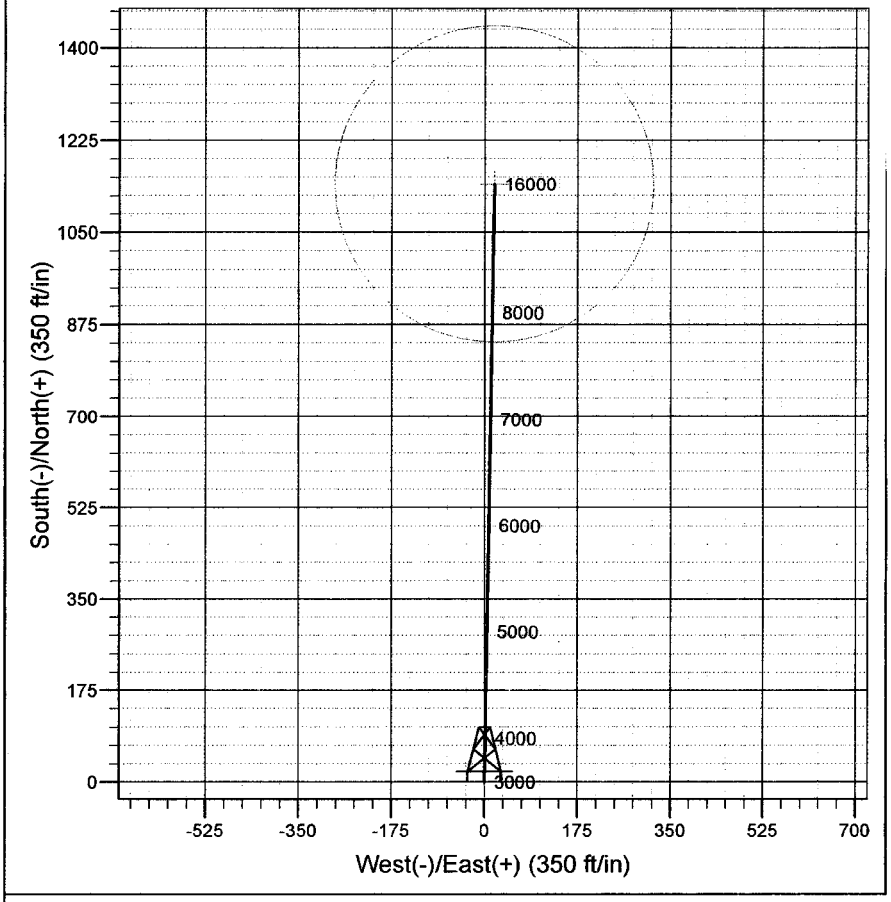
Magnetic Field
Strength: 51569.0nT
Dip Angle: 64.36°
Date: 1/10/2008
Model: IGRF200510

WELL DETAILS: BURRVILLE FEDERAL 3-1

GROUND ELEVATION @ 7605.0ft (GROUND ELEVATION) 7604.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	121196.00	1887690.00	38° 39' 55.389 N	111° 53' 35.834 W	





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2000.0	2000.0	Tertiary
4800.0	4822.3	Arapien Shale
9700.0	9809.8	Twin Creek
10000.0	10109.8	Navajo
11800.0	11909.8	Chinle
12310.0	12419.8	Moenkopi
13865.0	13974.8	Sinbad Member
14230.0	14339.8	Black Dragon
14780.0	14889.8	Kaibab
15160.0	15269.8	Toroweap
15380.0	15489.8	White Rim

Plan: Plan #1 (BURRVILLE FEDERAL 3-1/Wellbore

Created By: Rusty Hanna Date: 9-Jul-2008

PROJECT DETAILS: UTAH

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302

System Datum: Mean Sea Level
Local North: No north reference data is available

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3200.0	0.00	0.00	3200.0	0.0	0.0	0.00	0.00	0.0	
3	3966.7	11.50	0.90	3961.5	76.7	1.2	1.50	0.90	76.7	
4	8926.7	11.50	0.90	8822.0	1065.4	16.8	0.00	0.00	1065.5	
5	9693.3	0.00	0.00	9583.5	1142.1	18.0	1.50	180.00	1142.2	
6	9809.8	0.00	0.00	9700.0	1142.1	18.0	0.00	0.00	1142.2	Twin Creek
7	16109.8	0.00	0.00	16000.0	1142.1	18.0	0.00	0.00	1142.2	

OXY USA RMAT

UTAH
BURRVILLE
BURRVILLE FEDERAL 3-1
Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

15 July, 2008

OXY Permian

Planning Report - Geographic

Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	UTAH, SEVIER COUNTY		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	BURRVILLE				
Site Position:		**Northing:**	121,196.00 ft	**Latitude:**	38.665
From:	Map	**Easting:**	1,887,693.78 ft	**Longitude:**	-111.893
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	-0.25 °

Well	BURRVILLE FEDERAL 3-1					
Well Position	**+N/-S**	0.0 ft	**Northing:**	121,196.00 ft	**Latitude:**	38.665
	+E/-W	0.0 ft	**Easting:**	1,887,693.78 ft	**Longitude:**	-111.893
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	7,604.0 ft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	1/10/2008	12.19	64.36	51,629

Design	Plan #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	7,605.0
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.0	0.0	0.0	0.71	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,966.7	11.50	0.71	3,961.5	76.7	1.0	1.50	1.50	0.00	0.71	
8,926.3	11.50	0.71	8,821.6	1,065.4	13.2	0.00	0.00	0.00	0.00	
9,693.0	0.00	0.00	9,583.2	1,142.1	14.2	1.50	-1.50	0.00	180.00	
9,809.8	0.00	0.00	9,700.0	1,142.1	14.2	0.00	0.00	0.00	0.00	Twin Creek
16,109.8	0.00	0.00	16,000.0	1,142.1	14.2	0.00	0.00	0.00	0.00	

OXY Permian

Planning Report - Geographic

Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
100.0	0.00	0.00	100.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
200.0	0.00	0.00	200.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
300.0	0.00	0.00	300.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
400.0	0.00	0.00	400.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
500.0	0.00	0.00	500.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
600.0	0.00	0.00	600.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
700.0	0.00	0.00	700.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
800.0	0.00	0.00	800.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
900.0	0.00	0.00	900.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,000.0	0.00	0.00	1,000.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,100.0	0.00	0.00	1,100.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,200.0	0.00	0.00	1,200.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,300.0	0.00	0.00	1,300.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,400.0	0.00	0.00	1,400.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,500.0	0.00	0.00	1,500.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,600.0	0.00	0.00	1,600.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,700.0	0.00	0.00	1,700.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,800.0	0.00	0.00	1,800.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
1,900.0	0.00	0.00	1,900.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,000.0	0.00	0.00	2,000.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,100.0	0.00	0.00	2,100.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,200.0	0.00	0.00	2,200.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,300.0	0.00	0.00	2,300.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,400.0	0.00	0.00	2,400.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,500.0	0.00	0.00	2,500.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,600.0	0.00	0.00	2,600.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,700.0	0.00	0.00	2,700.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,800.0	0.00	0.00	2,800.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
2,900.0	0.00	0.00	2,900.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
3,000.0	0.00	0.00	3,000.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
13 3/8" Surface Casing									
3,100.0	0.00	0.00	3,100.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
3,200.0	0.00	0.00	3,200.0	0.0	0.0	121,196.00	1,887,693.78	38.665	-111.893
3,300.0	1.50	0.71	3,300.0	1.3	0.0	121,197.31	1,887,693.80	38.665	-111.893
3,400.0	3.00	0.71	3,399.9	5.2	0.1	121,201.23	1,887,693.86	38.665	-111.893
3,500.0	4.50	0.71	3,499.7	11.8	0.1	121,207.77	1,887,693.97	38.665	-111.893
3,600.0	6.00	0.71	3,599.3	20.9	0.3	121,216.92	1,887,694.13	38.665	-111.893
3,700.0	7.50	0.71	3,698.6	32.7	0.4	121,228.67	1,887,694.33	38.665	-111.893
3,800.0	9.00	0.71	3,797.5	47.0	0.6	121,243.02	1,887,694.57	38.666	-111.893
3,900.0	10.50	0.71	3,896.1	64.0	0.8	121,259.95	1,887,694.85	38.666	-111.893
3,966.7	11.50	0.71	3,961.5	76.7	1.0	121,272.67	1,887,695.07	38.666	-111.893
4,000.0	11.50	0.71	3,994.2	83.3	1.0	121,279.32	1,887,695.18	38.666	-111.893
4,100.0	11.50	0.71	4,092.2	103.3	1.3	121,299.25	1,887,695.51	38.666	-111.893
4,200.0	11.50	0.71	4,190.2	123.2	1.5	121,319.18	1,887,695.85	38.666	-111.893
4,300.0	11.50	0.71	4,288.2	143.1	1.8	121,339.12	1,887,696.18	38.666	-111.893
4,400.0	11.50	0.71	4,386.2	163.1	2.0	121,359.05	1,887,696.52	38.666	-111.893
4,500.0	11.50	0.71	4,484.2	183.0	2.3	121,378.99	1,887,696.86	38.666	-111.893
4,600.0	11.50	0.71	4,582.1	202.9	2.5	121,398.92	1,887,697.19	38.666	-111.893
4,700.0	11.50	0.71	4,680.1	222.9	2.8	121,418.85	1,887,697.53	38.666	-111.893
4,800.0	11.50	0.71	4,778.1	242.8	3.0	121,438.79	1,887,697.86	38.666	-111.893
4,900.0	11.50	0.71	4,876.1	262.7	3.3	121,458.72	1,887,698.20	38.666	-111.893
5,000.0	11.50	0.71	4,974.1	282.7	3.5	121,478.66	1,887,698.53	38.666	-111.893
5,100.0	11.50	0.71	5,072.1	302.6	3.8	121,498.59	1,887,698.87	38.666	-111.893

OXY Permian

Planning Report - Geographic

Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,200.0	11.50	0.71	5,170.1	322.5	4.0	121,518.52	1,887,699.20	38.666	-111.893
5,300.0	11.50	0.71	5,268.1	342.5	4.3	121,538.46	1,887,699.54	38.666	-111.893
5,400.0	11.50	0.71	5,366.1	362.4	4.5	121,558.39	1,887,699.88	38.666	-111.893
5,500.0	11.50	0.71	5,464.1	382.3	4.8	121,578.33	1,887,700.21	38.666	-111.893
5,600.0	11.50	0.71	5,562.1	402.3	5.0	121,598.26	1,887,700.55	38.666	-111.893
5,700.0	11.50	0.71	5,660.1	422.2	5.3	121,618.19	1,887,700.88	38.667	-111.893
5,800.0	11.50	0.71	5,758.1	442.2	5.5	121,638.13	1,887,701.22	38.667	-111.893
5,900.0	11.50	0.71	5,856.1	462.1	5.7	121,658.06	1,887,701.55	38.667	-111.893
6,000.0	11.50	0.71	5,954.0	482.0	6.0	121,678.00	1,887,701.89	38.667	-111.893
6,100.0	11.50	0.71	6,052.0	502.0	6.2	121,697.93	1,887,702.22	38.667	-111.893
6,200.0	11.50	0.71	6,150.0	521.9	6.5	121,717.86	1,887,702.56	38.667	-111.893
6,300.0	11.50	0.71	6,248.0	541.8	6.7	121,737.80	1,887,702.90	38.667	-111.893
6,400.0	11.50	0.71	6,346.0	561.8	7.0	121,757.73	1,887,703.23	38.667	-111.893
6,500.0	11.50	0.71	6,444.0	581.7	7.2	121,777.67	1,887,703.57	38.667	-111.893
6,600.0	11.50	0.71	6,542.0	601.6	7.5	121,797.60	1,887,703.90	38.667	-111.893
6,700.0	11.50	0.71	6,640.0	621.6	7.7	121,817.53	1,887,704.24	38.667	-111.893
6,800.0	11.50	0.71	6,738.0	641.5	8.0	121,837.47	1,887,704.57	38.667	-111.893
6,900.0	11.50	0.71	6,836.0	661.4	8.2	121,857.40	1,887,704.91	38.667	-111.893
7,000.0	11.50	0.71	6,934.0	681.4	8.5	121,877.33	1,887,705.25	38.667	-111.893
7,100.0	11.50	0.71	7,032.0	701.3	8.7	121,897.27	1,887,705.58	38.667	-111.893
7,200.0	11.50	0.71	7,130.0	721.2	9.0	121,917.20	1,887,705.92	38.667	-111.893
7,300.0	11.50	0.71	7,227.9	741.2	9.2	121,937.14	1,887,706.25	38.667	-111.893
7,400.0	11.50	0.71	7,325.9	761.1	9.5	121,957.07	1,887,706.59	38.667	-111.893
7,500.0	11.50	0.71	7,423.9	781.1	9.7	121,977.00	1,887,706.92	38.668	-111.893
7,600.0	11.50	0.71	7,521.9	801.0	10.0	121,996.94	1,887,707.26	38.668	-111.893
7,700.0	11.50	0.71	7,619.9	820.9	10.2	122,016.87	1,887,707.59	38.668	-111.893
7,800.0	11.50	0.71	7,717.9	840.9	10.5	122,036.81	1,887,707.93	38.668	-111.893
7,900.0	11.50	0.71	7,815.9	860.8	10.7	122,056.74	1,887,708.27	38.668	-111.893
8,000.0	11.50	0.71	7,913.9	880.7	11.0	122,076.67	1,887,708.60	38.668	-111.893
8,100.0	11.50	0.71	8,011.9	900.7	11.2	122,096.61	1,887,708.94	38.668	-111.893
8,200.0	11.50	0.71	8,109.9	920.6	11.4	122,116.54	1,887,709.27	38.668	-111.893
8,300.0	11.50	0.71	8,207.9	940.5	11.7	122,136.48	1,887,709.61	38.668	-111.893
8,400.0	11.50	0.71	8,305.9	960.5	11.9	122,156.41	1,887,709.94	38.668	-111.893
8,500.0	11.50	0.71	8,403.9	980.4	12.2	122,176.34	1,887,710.28	38.668	-111.893
8,600.0	11.50	0.71	8,501.8	1,000.3	12.4	122,196.28	1,887,710.61	38.668	-111.893
8,700.0	11.50	0.71	8,599.8	1,020.3	12.7	122,216.21	1,887,710.95	38.668	-111.893
8,800.0	11.50	0.71	8,697.8	1,040.2	12.9	122,236.15	1,887,711.29	38.668	-111.893
8,900.0	11.50	0.71	8,795.8	1,060.1	13.2	122,256.08	1,887,711.62	38.668	-111.893
8,926.3	11.50	0.71	8,821.6	1,065.4	13.2	122,261.33	1,887,711.71	38.668	-111.893
9,000.0	10.39	0.71	8,894.0	1,079.4	13.4	122,275.32	1,887,711.94	38.668	-111.893
9,100.0	8.89	0.71	8,992.5	1,096.1	13.6	122,292.07	1,887,712.23	38.668	-111.893
9,200.0	7.39	0.71	9,091.5	1,110.3	13.8	122,306.23	1,887,712.47	38.668	-111.893
9,300.0	5.89	0.71	9,190.9	1,121.9	14.0	122,317.80	1,887,712.66	38.668	-111.893
9,400.0	4.39	0.71	9,290.4	1,130.8	14.1	122,326.77	1,887,712.81	38.668	-111.893
9,500.0	2.89	0.71	9,390.2	1,137.2	14.1	122,333.13	1,887,712.92	38.669	-111.893
9,600.0	1.39	0.71	9,490.2	1,140.9	14.2	122,336.87	1,887,712.98	38.669	-111.893
9,693.0	0.00	0.00	9,583.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
9,700.0	0.00	0.00	9,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
9,800.0	0.00	0.00	9,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
9,809.8	0.00	0.00	9,700.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
Twin Creek									
9,900.0	0.00	0.00	9,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,000.0	0.00	0.00	9,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,100.0	0.00	0.00	9,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893

Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
10,109.8	0.00	0.00	10,000.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
Navajo									
10,200.0	0.00	0.00	10,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,300.0	0.00	0.00	10,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,400.0	0.00	0.00	10,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,500.0	0.00	0.00	10,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,600.0	0.00	0.00	10,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,700.0	0.00	0.00	10,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,800.0	0.00	0.00	10,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
10,900.0	0.00	0.00	10,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,000.0	0.00	0.00	10,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,100.0	0.00	0.00	10,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,109.8	0.00	0.00	11,000.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
9 5/8" Intermediate Casing									
11,200.0	0.00	0.00	11,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,300.0	0.00	0.00	11,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,400.0	0.00	0.00	11,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,500.0	0.00	0.00	11,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,600.0	0.00	0.00	11,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,700.0	0.00	0.00	11,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,800.0	0.00	0.00	11,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
11,900.0	0.00	0.00	11,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,000.0	0.00	0.00	11,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,100.0	0.00	0.00	11,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,200.0	0.00	0.00	12,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,300.0	0.00	0.00	12,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,400.0	0.00	0.00	12,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,500.0	0.00	0.00	12,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,600.0	0.00	0.00	12,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,700.0	0.00	0.00	12,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,800.0	0.00	0.00	12,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
12,900.0	0.00	0.00	12,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,000.0	0.00	0.00	12,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,100.0	0.00	0.00	12,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,200.0	0.00	0.00	13,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,300.0	0.00	0.00	13,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,400.0	0.00	0.00	13,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,500.0	0.00	0.00	13,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,600.0	0.00	0.00	13,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,700.0	0.00	0.00	13,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,800.0	0.00	0.00	13,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
13,900.0	0.00	0.00	13,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,000.0	0.00	0.00	13,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,100.0	0.00	0.00	13,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,200.0	0.00	0.00	14,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,300.0	0.00	0.00	14,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,400.0	0.00	0.00	14,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,500.0	0.00	0.00	14,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,600.0	0.00	0.00	14,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,700.0	0.00	0.00	14,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,800.0	0.00	0.00	14,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
14,889.8	0.00	0.00	14,780.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
Kaibab									
14,900.0	0.00	0.00	14,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893

OXY Permian

Planning Report - Geographic

Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
15,000.0	0.00	0.00	14,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,100.0	0.00	0.00	14,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,200.0	0.00	0.00	15,090.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,300.0	0.00	0.00	15,190.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,400.0	0.00	0.00	15,290.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,500.0	0.00	0.00	15,390.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,600.0	0.00	0.00	15,490.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,700.0	0.00	0.00	15,590.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,800.0	0.00	0.00	15,690.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
15,900.0	0.00	0.00	15,790.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
16,000.0	0.00	0.00	15,890.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
16,100.0	0.00	0.00	15,990.2	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
16,109.8	0.00	0.00	16,000.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
5 1/2" Production Casing									

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Navajo - plan hits target - Circle (radius 300.0)	0.00	0.00	10,000.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
Twin Creek - plan hits target - Circle (radius 300.0)	0.00	0.00	9,700.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893
Kaibab - plan hits target - Circle (radius 300.0)	0.00	0.00	14,780.0	1,142.1	14.2	122,338.00	1,887,713.00	38.669	-111.893

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,000.0	3,000.0	13 3/8" Surface Casing	13.375	17.500
11,109.8	11,000.0	9 5/8" Intermediate Casing	9.625	12.250
16,109.8	16,000.0	5 1/2" Production Casing	5.500	8.500

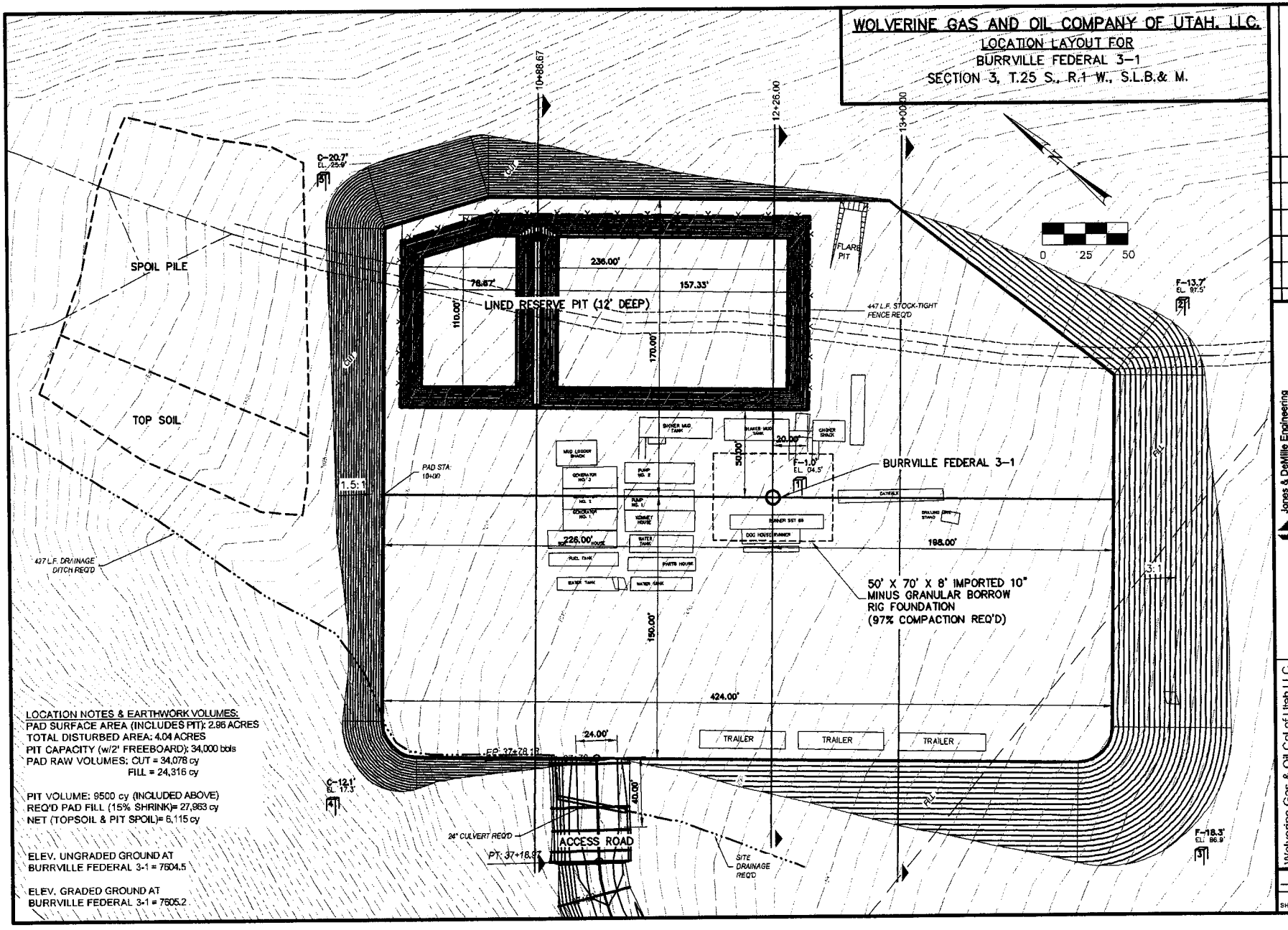
Database:	HOPSPP	**Local Co-ordinate Reference:**	Site BURRVILLE
Company:	OXY USA RMAT	**TVD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Project:	UTAH	**MD Reference:**	GROUND ELEVATION @ 7605.0ft (GROUND ELEVA
Site:	BURRVILLE	**North Reference:**	True
Well:	BURRVILLE FEDERAL 3-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,000.0	2,000.0	Tertiary		0.00	
4,822.3	4,800.0	Arapien Shale		0.00	
9,809.8	9,700.0	Twin Creek		0.00	
10,109.8	10,000.0	Navajo		0.00	
11,909.8	11,800.0	Chinle		0.00	
12,419.8	12,310.0	Moenkopi		0.00	
13,974.8	13,865.0	Sinbad Member		0.00	
14,339.8	14,230.0	Black Dragon		0.00	
14,889.8	14,780.0	Kaibab		0.00	
15,269.8	15,160.0	Toroweap		0.00	
15,489.8	15,380.0	White Rim		0.00	

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

LOCATION LAYOUT FOR
BURRVILLE FEDERAL 3-1
SECTION 3, T.25 S., R.1 W., S.L.B.& M.



LOCATION NOTES & EARTHWORK VOLUMES:
PAD SURFACE AREA (INCLUDES PIT): 2.96 ACRES
TOTAL DISTURBED AREA: 4.04 ACRES
PIT CAPACITY (w/2' FREEBOARD): 34,000 bbls
PAD RAW VOLUMES: CUT = 34,078 cy
FILL = 24,316 cy

PIT VOLUME: 9500 cy (INCLUDED ABOVE)
REQ'D PAD FILL (15% SHRINK)= 27,963 cy
NET (TOPSOIL & PIT SPOIL)= 6,115 cy

ELEV. UNGRADED GROUND AT
BURRVILLE FEDERAL 3-1 = 7504.5

ELEV. GRADED GROUND AT
BURRVILLE FEDERAL 3-1 = 7505.2

NO.	DATE	REVISIONS	REMARKS
1	7/11/2008	ORIGINAL SUBMISSION FOR AUTHORIZATION	

DWG CREATED: 04/09/2008
LAST UPDATE: 7/11/2008
DWG NAME: 07-02-166_SPC
SHT SET: 3 OF 3 SHTS
PEN TBL: Std24-3800.ctb
SCALE: 1"=50'

Jones & DeMille Engineering
1535 South 100 West
Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-8268
www.jonesanddemille.com

SURVEYED:	L.G.	04-08	
DRAWN:	L.G.	04-08	
CHECKED:			
APPROVED:			

REVIEW: O.R. 04-08

Wolverine Gas & Oil Col of Utah LLC
BURRVILLE FEDERAL 3-1
LOCATION LAYOUT
PROJECT NUMBER: 0702-166

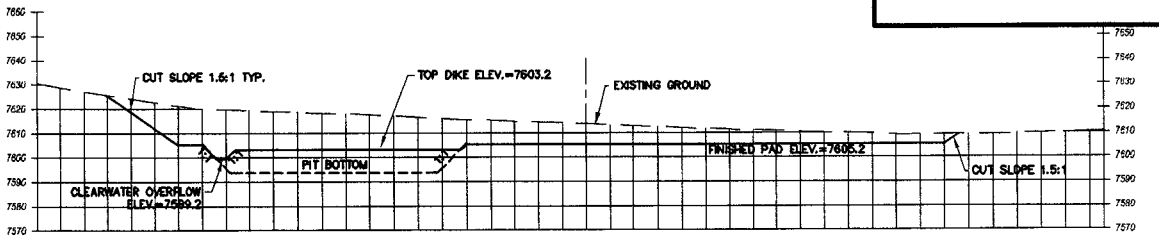
SEVIER COUNTY
SHEET NO. SP-01

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

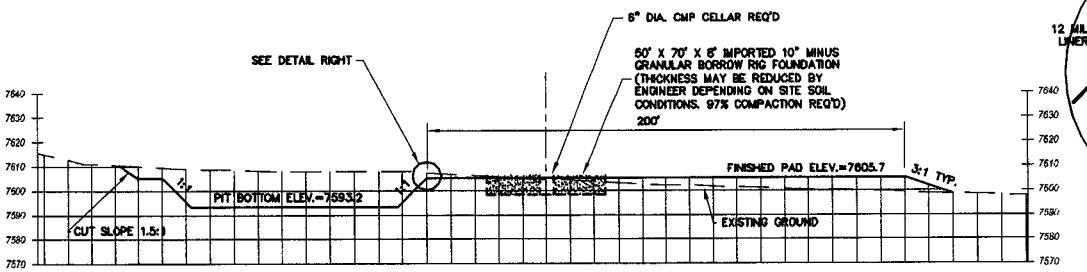
CROSS SECTIONS FOR

BURRVILLE FEDERAL 3-1

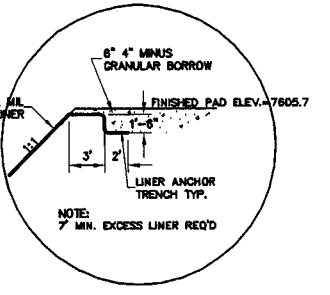
SECTION 3, T.25 S., R.1 W., S.L.B.& M.

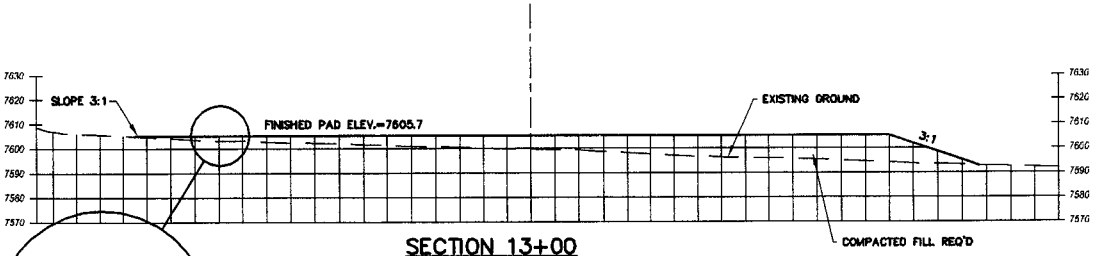


SECTION 10+88.67

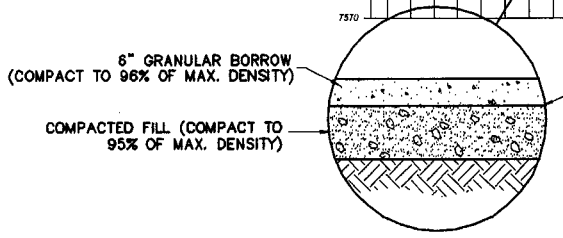


SECTION 12+26





SECTION 13+00



NO.	BY:	REVISIONS	REMARKS		
		ORIGINAL SUBMISSION FOR AUTHORIZATION		DWG CREATED: 04/09/2008	LAST UPDATE: 7/11/2008
				DWG NAME: 3-2-1_PT.	PEN TBL:
				SHT SET: JAN_L24	
SCALE: 1"=50'					

	REVIEW		
C.T.S.C.	-	-	-
C.T.S.C.	D.R.	04-08	-
C.T.S.C.	L.G.	04-08	-
C.T.S.C.	-	-	-

Jones & DeMille Engineering

1535 South 100 West - Richfield, Utah 84701

Phone (435) 896-8266 - Fax (435) 896-1858

www.jonesanddemille.com

Wolverine Gas & Oil Col of Utah LLC

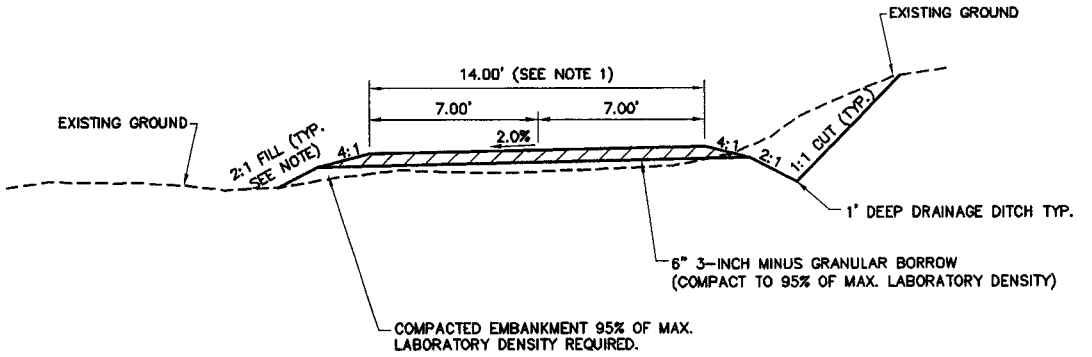
BURRVILLE FEDERAL 3-1

CROSS SECTIONS

PROJECT NUMBER 0702-166

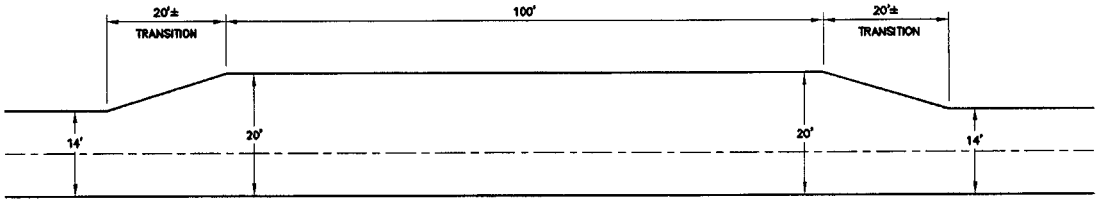
SEVIER COUNTY

SHEET NO. CS-01



TYPICAL #1

NOTES:
1. 20-FOOT WIDTH AT TURN-OUTS
2. 1.5:1 FILL SLOPES ARE REQUIRED IN ISOLATED STEED AREAS TO CATCH EXISTING GROUND.

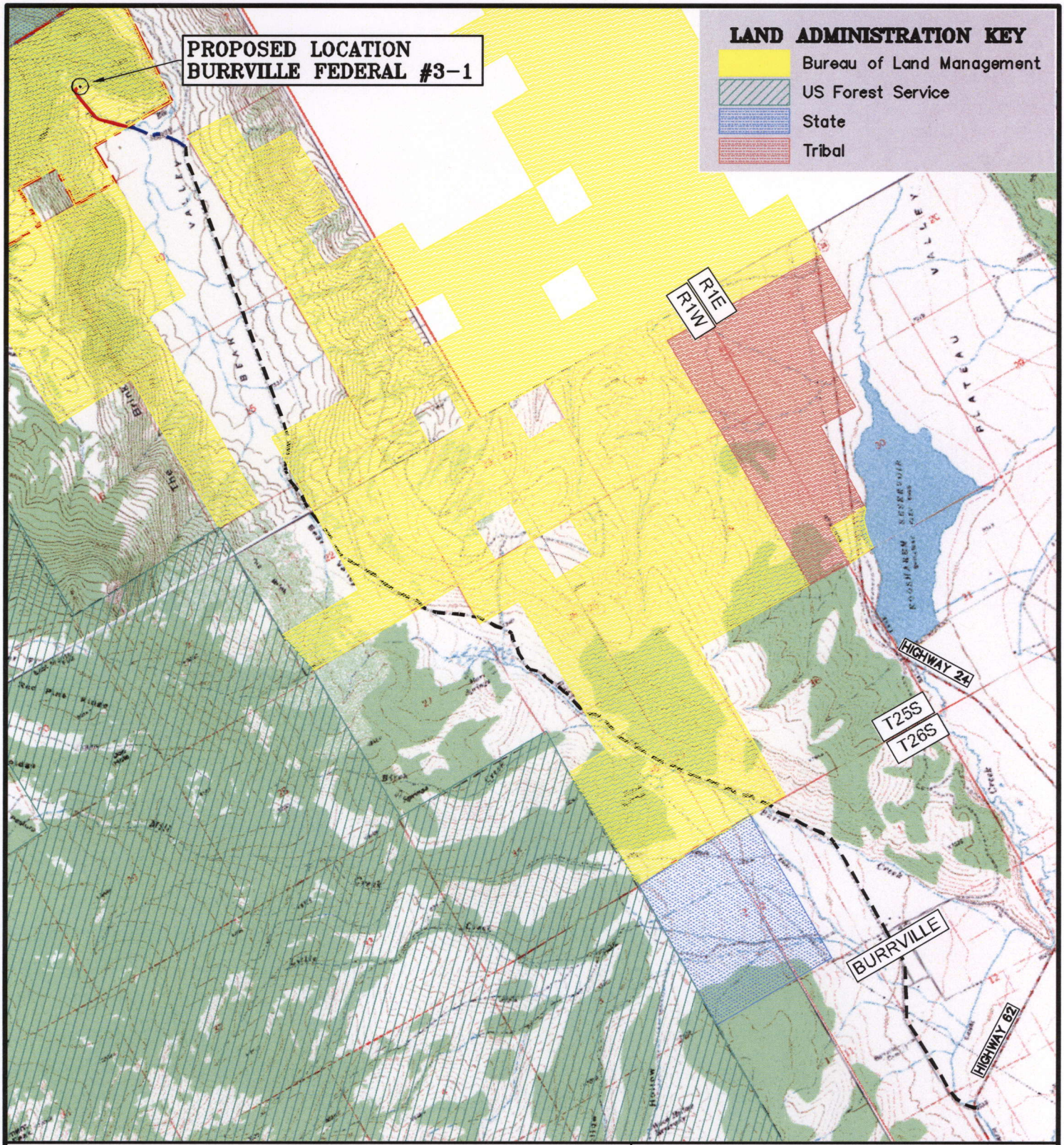


PLAN VIEW

TRUCK TURNOUT TYPICAL

Jones & DeMille Engineering

Wolverine Gas & Oil Co. of Utah, LLC
BURRVILLE FEDERAL 3-1
TYPICAL SECTION
PROJECT NUMBER: 0702-166
SEVIER COUNTY
SHEET NO. TS-01



LEGEND

- PROPOSED LOCATION
- LEASE BOUNDARY
- EXISTING ROADWAY
- NEW ROADWAY (2301 L.F.)
- EXISTING ROAD NEEDING UPGRADE (2361 L.F.)

Burrville Federal 3-1
Section 3, T.25 S., R.1 W., S.L.B. & M.
2313' FNL 2194' FEL

Jones & DeMille Engineering
1535 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-8268
www.jonesanddemille.com

SCALE: 1"=4000'

Wolverine Gas & Oil Co of Utah, LLC

Burrville Federal 3-1

Vicinity Map

DRAWN: L.G. 04-08	PEN TBL: _1stndrd-hp2600.ctb	PROJECT: 0702-166	SHEET:
CHECK: D.R. 04-08	FILE: VIC3-1	LAST UPDATE: 7/11/2008	1

H_2S CONTINGENCY PLAN

Oxy USA Operations

2754 Compass Dr. Suite 170
Grand Junction CO. 81506
970-263-3600

CONTINGENCY PLAN
FOR
DRILLING, WORKOVER & COMPLETION OPERATIONS

Burrville Federal 3-1

Location:
Sevier County, Utah
Section 3
Township 25 South
Range 1 West

Drilling Rig:
Nabors Rig 797

July 16, 2008
This plan is subject to updating

H_2S CONTINGENCY PLAN

H_2S LAND CONTINGENCY PLAN
TABLE OF CONTENTS

H_2S CONTINGENCY PLAN

I. INTRODUCTION

This plan specifies precautionary measures, safety equipment, emergency procedures, responsibilities, and duties pertaining to drilling operations.

This plan was developed because of the potential hazards involved when drilling formations that may contain hydrogen sulfide (H_2S). It was written in compliance with state regulations and in accordance with the recommendations of the American Petroleum Institute publication API-RP49 "Recommended Practices for Safe Drilling of wells containing Hydrogen Sulfide".

To be effective, this plan requires the cooperation and effort of each individual participating in the drilling of a potential H_2S well. Each individual should know his responsibilities and duties in regard to normal drilling operations and emergency procedures. He should thoroughly understand and be able to use, at a moment's notice, all safety equipment on the location.. He should familiarize himself with the location of all safety equipment and see that his equipment is properly stored, easily accessible, and routinely maintained.

The ideas and suggestions of each individual involved in the drilling of a potential sour gas well are highly welcomed and is an asset for providing the safest working conditions possible.

II. LOCATION LAYOUT

A. Safe Briefing Areas

Two areas will be designated as "SAFE BRIEFING AREAS". These areas will be located, in as much as feasible, at 180 degrees to one another on opposite sides of the location. The Briefing Area which is predominately upwind of the wellbore will be designated as "BRIEFING AREA NO. 1" or the "PRIMARY BRIEFING AREA". If H_2S is detected in concentrations equal to or in excess of 10ppm all personnel not assigned emergency duties are to assemble in the designated Safe Briefing area for instructions. These areas will be located a minimum of 200' from the wellhead.

B. Wind Indicators

Wind socks and/or streamers will be installed at strategic points on the facility. They will be positioned so they can be seen from any location on the mud pits and rig floor. These wind indicators will be situated so as to be illuminated during hours of darkness. These wind indicators will be situated at separate elevations.

C. Danger Signs

A warning sign indicating the possible well conditions will be displayed at the location entrance as well as along all routes leading to the locations

Colored flags will be displayed indicating which of the well conditions indicated on the warning sign is applicable at the time. The green flag will be displayed under normal operating conditions, when H_2S Concentrations are less than 10 ppm. The yellow flag will be displayed when H_2S concentration is present at 10 ppm or greater. The red flag will be displayed at 20 ppm or greater of H_2S in the atmosphere.

D. Office Trailers and Accommodations

All office trailers and accommodation buildings on site will be located to allow reasonably safe distances from both the well and the outlet of the flare line.

E. Emergency Communications

Emergency communications equipment will be made available at the safe briefing area. This equipment may be telephone, radio, mobile phone, or other communication device that allows two-way communication should the need arise.

F. H_2S Detectors and Alarms

Continuous monitoring type H_2S detectors, capable of sensing a minimum of 5ppm H_2S in air, will be located at each of the following points:

Sensor Locations

1) Bell nipple
2) Shale shaker
3) Drilling fluid pit area
4) Driller's station
5) Additional critical areas will be covered should they be identified.

Automatic H_2S alarms (visual and audible) will be located at appropriate locations throughout the location.

G. Breathing Air System

A system of breathing air manifolds, hoses and masks will be installed at the wellsite with outlets at heavy work areas and the Briefing Areas.

A system of breathing air cylinders shall be tied into the manifolding system to maintain a sufficient supply of respirable air to these areas.

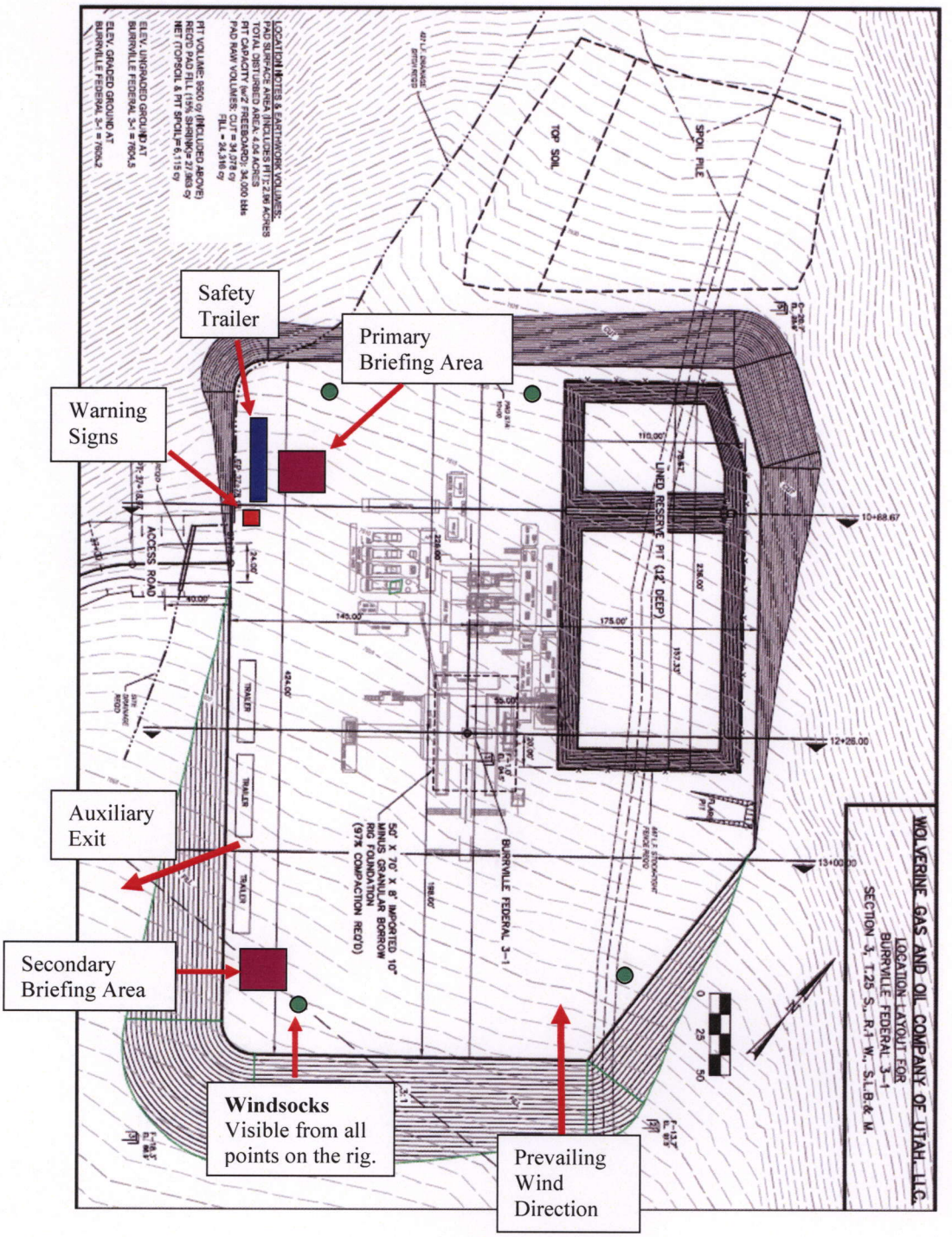
A cascade-type system of air cylinders shall be available at both Briefing Areas to facilitate the recharging of individual self-contained breathing apparatus cylinders. All breathing air cylinders shall be labeled as containing breathing quality air.

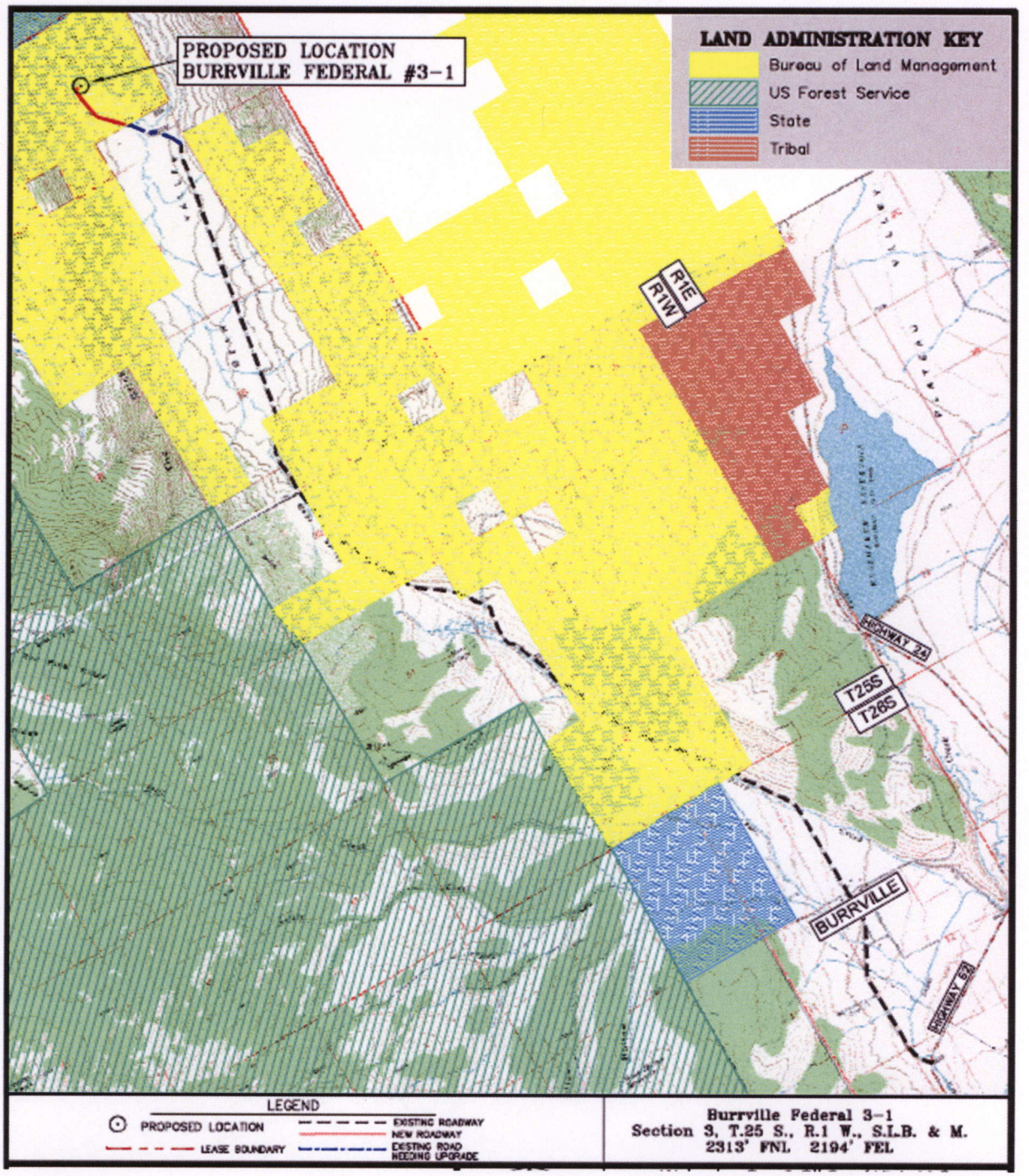
H. List of Safety Equipment

The location and quantity of all safety equipment (including breathing air equipment, and H_2S and SO_2 detection equipment) can be found in Appendix A-2.

I. Ventilation Devices

Electric fans (with explosion-proof motors) will be installed as necessary in areas where the potential for H_2S gas accumulation exists.




PROPOSED LOCATION
BURRVILLE FEDERAL #3-1
LAND ADMINISTRATION KEY
Bureau of Land Management
US Forest Service
State
Tribal
R1E
R1W
HIGHWAY 93
T25S
T26S
BURRVILLE
HIGHWAY 93
LEGEND
PROPOSED LOCATION
LEASE BOUNDARY
EXISTING ROADWAY
NEW ROADWAY
EXISTING ROAD NEEDING UPGRADE
Burrville Federal 3-1
Section 3, T.25 S., R.1 W., S.L.B. & M.
2313' FNL 2194' FEL

III. NORMAL OPERATING PROCEDURES

A. Prior to Compliance Depth

This H_2S Contingency Plan will be operational prior to spud in of the well.

1. Lists of emergency phone numbers will be posted at the following locations:

   A. Oxy Drillsite Manager office
   B. Toolpusher's office
   C. The safe briefing area.

2. All safety equipment must be inspected routinely, paying particular attention to breathing air equipment and monitoring equipment.

3. All personnel onsite will be assigned breathing air equipment and, personal monitors for H_2S, capable of detecting 10ppm with audible and visual alarms.

4. Prior to compliance depth, Rig Contractor's personnel, Oxy personnel, and necessary Service Company personnel must be thoroughly trained in the use of breathing air equipment, emergency procedures, responsibilities and first-aid for H_2S victims. A record must be maintained of all personnel who have been through the H_2S training programs on location.

B. Below Compliance Depth

Below compliance depth the H_2S detection system will be calibrated every week under normal conditions. The time and results of each test must be logged. The SECORP Representative will insure that the H_2S detection equipment calibrations and tests are recorded on the IADC Daily Drilling Report Form.

1. When arriving on location, all personnel, without exception, must proceed directly to the H_2S Safety Technician for assignment of breathing air equipment and, if needed, H_2S detector. An instruction and orientation briefing will also be held, if needed. The H_2S Safety Technician will be responsible for assigning such equipment to the individuals and instructing them in its use.

2. Each person on the location will be instructed in the use of breathing air equipment until supervisory personnel are satisfied that each is capable of using the equipment. This training must include all additional personnel that are allowed onsite during drilling or testing operations.

3. Weekly breathing air equipment drills and H_2S training of attendants should be held. Documentation of these drills and training sessions shall be maintained on location.

4. Rig crews and Service Company personnel should be made aware of the location of breathing air bottles and H_2S detectors. Knowledge of the location of H_2S detector sensors is vital to understanding the "Emergency Conditions". In addition, key personnel must be trained in the use of the resuscitator and H_2S detectors.

5. H_2S detectors shall be available for use by all working personnel. After any device has initially detected H_2S, periodic inspections of all areas of poor ventilation shall be made with a portable H_2S detector instrument.

6. All personnel on the location should become "wind-conscious" and be aware at all times of the direction of the prevailing winds. They should remember that H_2S is heavier than air and will collect in low places in still air.

7. There will be no welding if H_2S is detected at the surface until the surrounding air is thoroughly tested with an explosimeter and hot work permit approved by the Oxy Drillsite Manager.

8. After penetration of an H_2S bearing zone, increased monitoring of the working area should be provided when drilling, circulating bottoms up from a drilling break, cementing or logging. If the H_2S concentration reaches 20 ppm in the air, all personnel will wear breathing air equipment, and all personnel not assigned emergency duties should go to the designated Safe Briefing Area.

IV. OPERATING CONDITIONS

A. Condition I - Possible Danger - H_2S Present at Less Than 10 ppm

1. Warning Signs: A green flag will remain displayed at the well entrance

2. Alarm: (For notification of rig crew) None

3. Characterized by: H_2S concentration is less than 10 ppm.

4. General Action:

   a. Be alert for a condition change. There will be no smoking except in designated areas.

   b. Check safety equipment for proper functioning. Keep it available. No welding or open fire without hot work permit approved by Operator's Oxy Drillsite Manager.

   c. Perform all drills for familiarization and proficiency.

B. Condition II - Moderate Danger - H_2S Present at 10ppm or Greater

1. Warning Sign: A yellow flag shall replace the green flag at the wellsite entrance.

2. Alarm: Continuous flashing amber and red lights when the concentration exceeds 10 ppm and continuous sounding of the H_2S siren when concentration exceeds 20 ppm. All alarm signals will continue as long as the H_2S concentration is present at greater than 10ppm or until deactivated by the H_2S Safety Technician or Oxy Drillsite Manager.

3. Characterized by: H_2S concentration is equal to or greater than 10ppm.

4. General Action:

a. All personnel not specifically assigned to correct or control the situation will report to the upwind briefing area. The number of essential personnel may be modified at the time of operation due to prevailing circumstances as determined by the Oxy Drillsite Manager.

b. If the alarm sounds and it has not been preceded by Condition I, the actions of Condition II will be taken. Circulation will be stopped, self-contained breathing apparatus and airline work units will be donned by all working personnel and all non-essential personnel shall proceed to the upwind safe briefing areas.

C. Condition III - Extreme Danger - H_2S Present at 20ppm or greater

1. Warning Sign: A red flag shall replace the yellow flag at the wellsite entrance.

2. Alarm: Same as Condition II

3. Characterized by: H_2S concentration is equal to or greater than 20 ppm.

4. General Action:

a. All non-essential personnel will be evacuated in an orderly manner, immediate notification shall be given to local civil authorities, and traffic in the immediate vicinity of the facility shall be diverted. The State Oil and Gas Board and other appropriate governmental agencies shall be notified.

b. The Oxy Drillsite Manager and the Contractor's Drilling Foreman will determine which personnel are to remain onsite.

c. If necessary, all personnel will be evacuated.

d. The Contractor's Drilling Foreman and the Oxy Drillsite Manager will jointly determine if ignition of the well is warranted. If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide (SO_2), which is also highly toxic. Remain on the upwind side of the location.

V. EMERGENCY PROCEDURES FOR H_2S RELEASES:

1. The person detecting the H_2S must **IMMEDIATELY** notify the driller.

2. The driller will pick up off bottom until first tool joint is above rotary table and shut down the mud pumps.

3. All working rig personnel will immediately put on their breathing air equipment.

4. Once breathing air equipment is on, the driller should:

   a. Begin working drill pipe.
   b. Check well for flow and be ready to close the BOP's.

5. Nabor's Toolpusher will see to the shut down of the forced air circulation system.

6. All personnel must get their assigned self-contained breathing air equipment and report to the designated safe briefing area for further instructions, unless otherwise instructed. If both your assigned self-contained breathing apparatus and the designated safe briefing area are upwind of the wellbore, the self-contained breathing apparatus may be carried to the designated safe briefing area. However, if there is any doubt, don and activate the unit immediately. If it becomes necessary to go through the rig floor or wellhead area to get to the designated safe briefing area, the breathing air equipment will be put on as soon as the equipment is reached. If you are located on the downwind end of the rig when the H_2S alarm is sounded, hold your breath and proceed across then upwind to the designated Safe Briefing Area, donning the nearest breathing air equipment available.

7. Always put on a breathing air unit before proceeding to assist anyone affected by the gas and utilize the "Buddy System". If the affected person is stricken in a high concentration area obtain standby assistance before entering the area. Always use the "Buddy System" when entering possible contaminated areas.

8. Evacuate non-essential personnel when H_2S reaches a concentration exceeding 20ppm in the air.

9. The Oxy Drillsite Manager and the Contractor's Representative will assess the situation and assign duties to each person needed to bring the situation under control. When the severity of the situation has been determined, all persons will be advised.

10. The Oxy Drillsite Manager will be responsible for notifying the following regulatory agencies:

    a. State Regulatory Agency
    b. Filling out H_2S Government Notification Log

VI. SPECIAL OPERATIONS

A. Coring

1. During drilling operations below compliance, it may be decided to core. This operation takes on critical complexities when attempted in a sour gas well. The following practices should be followed during coring operations:

    a. After a core has been cut, circulate bottoms up and monitor mud for H_2S prior to pulling out of the hole with the core.
    b. Put on breathing air equipment ten stands before core barrel reaches the surface. If well conditions dictate, or the H_2S concentration reaches 20 ppm, breathing air equipment should be put on sooner. All personnel in the area should wear breathing air equipment while the core barrel is pulled, broken out, and opened. Colorimetric tube type detectors should be used to monitor for H_2S around the core barrel. When these detectors indicate a safe atmosphere, the breathing air equipment may be removed.

2. The following practices must be followed for every core barrel pulled:

    a. Due to the difficulty in communicating with breathing equipment on, it is required that a chalkboard and chalk, or note pads, be available during core handling operations.
    b. The importance of leaving the breathing air equipment on must be stressed to all personnel connected with the coring operation. The most critical moment is when the core barrel is opened.
    c. All personnel on location not wearing breathing air equipment should stay a safe distance upwind from the core barrel.
    d. If the core contains H_2S, the cores to be transported must be sealed and marked for the presence of H_2S.
    e. The cores must not be transported in a closed vehicle.

B. Well Testing

1. Well testing must be performed with the minimum number of personnel and all necessary equipment required to safely and adequately perform the test.

2. Prior to initiation of the test, special safety meetings must be conducted for all personnel who will participate with particular emphasis on use of personnel safety equipment, first-aid procedures, and the H_2S Contingency Plan.

3. During the test, the use of H_2S detection equipment will be intensified. All produced gases must be vented and burned through a flare system. Produced fluids, which are stored in the tanks on the location, must be vented into the flare system. Vents will have spark arrestors to prevent any possibility of a flash back. This system will vent a minimum of 150' from the wellhead and will be positioned as far from the working areas as feasible taking into consideration a manner to compensate for wind changes.

4. "No Smoking" rules will be rigorously enforced.

VII. WELL CONTROL

The following well control practices should be initiated below protective casing:

A. If high trip gas or high drill gas concentration are encountered, the degasser should be used and the gas separated and flared. The vent line from the degasser will be opened so that gas can be burned at the flare.

If gas is breaking out at the rotary, consider closing the annular BOP and routing the flow through the mud-gas separator. Gas will be burned through the flare vent line.

B. Assume any influx of formation fluid into the wellbore contains H_2S. If the decision is made to circulate out the influx, all personnel involved will wear breathing air equipment until it is known that H_2S is not present. The following steps should be taken when the influx occurs:

1. Shut in the well using normal techniques. Record drill pipe pressure, casing pressure, and volume of influx.

2. Notify the Oxy Drillsite Manager and the Nabor's Toolpusher.

If the mud has been contaminated with H_2S, it may be necessary to treat it with zinc carbonate (or equivalent) to treat out the H_2S. If H_2S is known to be present and an influx occurs, the size of the influx, the casing depth, the leak-off test results, the amount and type of open hole, and weather conditions will enter into the management decision of whether to circulate out the influx or to "pump away" the influx back into the formation.

VIII. IGNITING THE WELL

A. Responsibilities for Decision

The Oxy Drillsite Manager in consultation with the Nabor's Toolpusher would evaluate deliberate ignition of the blowout if there is serious, immediate danger to personnel. In such an event, the Oxy Drillsite Manager will have the ultimate onsite responsibility while relying on the Nabor's Toolpusher for all input regarding personnel safety. The well will be ignited only after evaluation of the alternatives available and after discussion with the proper government agencies.

In all cases, an attempt should be made to notify the Oxy's Drilling Superintendent and the Nabor's Manager of Drilling Operations as soon as possible and prior to igniting the well, if possible.

If the well is ignited, the burning H_2S will be converted to sulfur dioxide (SO_2) which is also highly toxic and heavier than air. Do not assume the area is safe after the well is ignited.

B. Method of Ignition

1. The primary method of igniting the well will be with a 25mm flare gun, which has a range of approximately 500 feet. Always ignite the well from upwind and do not approach the well any closer than is necessary. BEFORE firing the flare gun or igniting flammable material, check the atmosphere at your location for combustible gases with an explosimeter.

2. If the above method of ignition fails or well conditions are such that a safer or better method is apparent, then an alternative method should be used.

IX. RESPONSIBILITIES AND DUTIES

A. All Personnel

1. It is the responsibility of all personnel on the drilling location, as well as other personnel utilized to assist in drilling the well to become familiar with the "Hydrogen Sulfide Contingency Plan".

2. Each individual may be assigned his own personnel breathing apparatus and is responsible for assuring that the equipment is properly stored, routinely maintained, and easily accessible.

3. Each person must become familiar with the location of all safety and emergency equipment and SAFE BRIEFING AREAS and must be able to use this equipment at a moment's notice.

4. Report any indications of H_2S to those in the area and to the Oxy Drillsite Manager and Nabor's Toolpusher.

5. At alarm, go to the designated SAFE BRIEFING AREA. This includes all OFF DUTY and ON DUTY personnel not specifically designated to control the well.

6. All personnel will attend to their personal safety first.

7. Help anyone who may be injured or overcome by toxic gases.

B. Oxy Drillsite Manager

1. Responsible for thoroughly understanding and enforcing all aspects of this "H_2S Contingency Plan".

2. Responsible for ascertaining that the Drilling Contractor, through Nabor's Toolpusher, is in compliance with and is enforcing all aspects of the "Hydrogen Sulfide Contingency Plan" for drilling where H_2S may be encountered.

3. Responsible for insuring that all other Oxy and third party personnel comply with the "Hydrogen Sulfide Contingency Plan".

4. Responsible for restricting third party personnel and visitors to the site to a minimum, especially during expected hazardous operations.

5. Responsible for notifying all of the personnel of a change in conditions. Oxy Drillsite Manager will notify regulatory agencies as required when either Condition II or Condition III exists.

6. In conjunction with the Nabor's Toolpusher will initiate the evacuation plan.

7. In conjunction with the Nabor's Toolpusher is responsible for assuring that personnel training is conducted.

8. Responsible for assuring that all H_2S detectors are inspected and functional.

9. Responsible in conjunction with Nabor's Toolpusher for displaying the visible warning system signs and proper flags, as appropriate.

10. Responsible, along with the Nabor's Toolpusher for assuring that all hydrogen sulfide safety programs and training sessions are conducted and those records of attendance are maintained, and kept onsite.

C. Nabor's Toolpusher

1. In conjunction with the Oxy Drillsite Manager, is responsible for seeing that all personnel on location observe all safety and emergency procedures outlined in this "H2S Contingency Plan".

2. Shares the responsibility of the Oxy Drillsite Manager for assuring that training is conducted for all personnel onsite.

3. Responsible for thoroughly understanding the contents of this "H_2S Contingency Plan". In the absence or incapacitation of the Oxy Drillsite Manager, the Nabor's Toolpusher will assume all responsibilities designated herein to the Oxy Drillsite Manager.

4. Along with the Oxy Drillsite Manager, is responsible for assuring that all hydrogen sulfide safety programs and training sessions are conducted and that records of attendance are maintained, and kept onsite.

5. Will check the ventilation needed to keep any H_2S from accumulating in living quarters or unexpected places.

6. Responsible, in conjunction with the Oxy Drillsite Manager, for displaying the visible warning system signs and flags as appropriate.

7. Will be in charge of SAFE BRIEFING AREA during assembly for evacuation.

D. Mud Engineer

1. In addition to the normal duties, the Mud Engineer is responsible for insuring that the drilling rig has a sufficient supply of hydrogen sulfide scavenger available at all times.

2. Must be thoroughly familiar with the procedures for treating hydrogen sulfide-contaminated mud.

E. H_2S Safety Technician

1. Responsible for performing a weekly inventory to assure that all safety equipment is being properly stored and maintained.

2. Responsible for logging the arrival and departure of all personnel on location.

3. Responsible for H_2S training, which includes the use, maintenance, and storage of the safety equipment for all personnel upon arrival onsite.

4. Responsible for issuing H_2S safety equipment to arriving personnel onsite.

5. Must maintain and repair all personnel's safety equipment.

6. Responsible for the required inspection and sanitizing of the H_2S safety equipment.

7. Must maintain H_2S Safety training attendance records and other record keeping required. All training records to be kept onsite during the job. Will provide the Oxy Drillsite Manager a copy of all class attendance records.

8. Will observe and assist during hydrogen sulfide drills.

9. Will observe testing of the hydrogen sulfide monitors weekly for response.

X. PROCEDURE FOR INFORMING PERSONNEL OF H2S CONTINGENCY PLAN

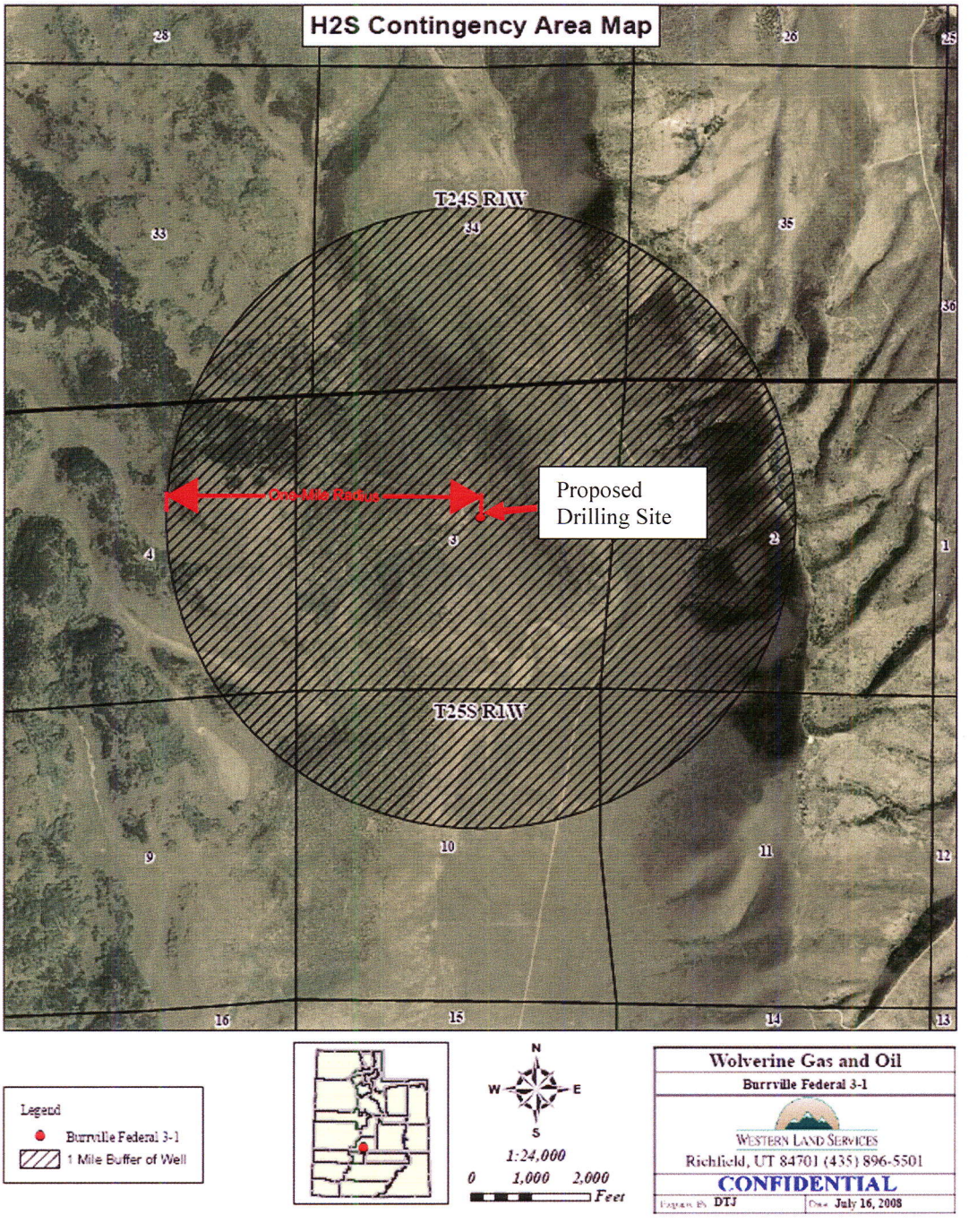
A. There will be copies of the complete "H_2S Contingency Plan" available in the Oxy Drillsite Manager's office.

B. All personnel arriving at the location will report immediately to the H_2S Safety Technician for familiarization with the Considerations During the Drilling of a Sour Gas Well.

C. The H_2S Safety Technician will train the crews and familiarize them with the Considerations During the Drilling of a Sour Gas Well. Written records will be maintained at the location and off-site.

XI. EVACUATION OF PUBLIC

A. Area Map



B. List of Residents

There are no residencies or public dwellings within a one-mile radius of the proposed drilling site.

XII. APPENDIX A

A-1 Considerations During the Drilling of a Sour Gas Well

This memorandum is intended to familiarize you with the conditions that can exist when drilling a well into formation that may contain Hydrogen Sulfide gas, and the precautions the Operator and drilling contractor have taken in designing the well program and the safety program to provide maximum safety.

You should become familiar with all safety equipment on the site; its use and availability. The windsock and windstreamers are provided to show which direction the wind is blowing so that the 'Safe Briefing Area' can be easily defined. You should become 'wind conscious' and frequently observe these wind direction indicators. All persons on location will receive instructions in the use of safety equipment and what to do during an H_2S emergency. The well will be monitored continuously by a solid-state, fixed monitoring detection system.

During an emergency, all personnel shall utilize the 'buddy system', preventing anyone from entering a potentially toxic area alone, regardless of whether or not they are using breathing apparatus. If you are wearing a respirator, do not remove it until you are absolutely sure the air is safe to breathe. If a sudden gas release occurs, without warning, you should:

1) Hold your breath and rapidly evacuate the area containing the H_2S. Move across and upwind, if possible.
2) Put on breathing apparatus.
3) Help anyone who may have been overcome by the gas, only after you have put on your breathing apparatus, and transport him to a safe upwind area where you can administer resuscitation.
4) Evacuate to the upwind 'Briefing Area' where further instructions can be delivered. DO NOT PANIC!

The Company intends to keep all formations overbalanced with mud weight so that no influx of toxic gas will occur. However, these plans have been provided so that such an influx can be handled with a minimum of difficulty. It is important that you follow the directives of the Oxy Drillsite Manager and the contractor's representative during any emergency, to insure the safety of all personnel.

A-2 Rigsite H_2S Safety Equipment

1	Hydrogen Sulfide Safety Trailer Complete with the following contents:
8	300 cu. ft. Breathing Air Cylinders, manifold, breathing hoselines with quick connect fittings and recharge line for primary briefing area
1	Oxygen resuscitator with two (2) spare oxygen cylinders
1	Sensidyne gas detector with H_2S, SO_2 and CO_2 tubes
8	Del Mar H2S spot check detectors
1	Portable Trimeter for H_2S, LEL and Oxygen Readings
3	Flag pole and assembly with three (3) warning flags
3	Wind sock holders with three (3) windsocks
1	First Aid Kit and Eye Wash Station
1	Bull Horn
2	Safety harness with safety line
1	25 MM flare pistol and 12 flare shells
2	Dry chemical fire extinguishers
15	Sets of ear plugs
1	Packet "NO SMOKING" signs
2	Fire Blankets
1	Wire stretcher
2	Cleaning sanitizers
3	Well condition entrance sign with instructions
2	Briefing Area Signs
35	30-Minute air masks with case, lightweight cylinder (2216 psi) and stainless steel quick-connect for cascade/hose line use. All units are pressure-demand and hold NIOSH approval.
6	5-Minute airline masks with emergency escape cylinders & watertight storage boxes.
2	Cascade Units each with (6) 300 Cu. Ft. breathing air cylinders for rig use
1	Breathing Air Compressor
78	Manifold connections for Primary and Secondary Briefing Areas and rig use.
2	100' Breathing air hoe lines with quick connect
10	50' Breathing Air hose lines with quick connect
5	25' Breathing air hoe lines with quick connect
60	Pigtails Breathing Air hose lines with quick connect for Briefing Areas
1	4-Channel Hydrogen Sulfide Detection System with (4) sensors
3	Explosion Proof Alarms complete with (2) lights and (1) siren

A-3 Personnel Training

All personnel will be informed of the hazards of hydrogen sulfide and sulfur dioxide and instructed in the provisions for personnel safety contained in the H_2S Contingency Plan. All personnel will be instructed in the use of any safety equipment, which they may be required to use. They will also be informed of the location of protective breathing apparatus, H_2S detectors and alarms, ventilation equipment, briefing areas, warning systems, evacuation procedures and the prevailing winds. In addition, personnel will be informed of the restrictions and corrective measures concerning beards, spectacles and contact lenses in accordance with OSHA Standard 29CFR 1910.134 and ANSI Z88.2. First aid procedures applicable to victims of H_2S exposure will be included in the training program.

Instruction of personnel shall be initiated as soon as possible following their arrival on the location.

An H_2S drill and training session will be held for all personnel on location. FULL PARTICIPATION is mandatory. All H_2S drills shall be entered into the IADC Drilling Log.

*Records of all drills and/or training sessions shall be maintained at the facility.

A copy of the training handout, which will be given to each individual trained on site, is included in this Appendix; also included is the guideline for the H_2S drills.

This training will be conducted to instruct personnel in the operation and use of self-contained breathing apparatus and H_2S related emergency equipment and to review various operating procedures in the "H_2S CONTINGENCY PLAN".

Initial drills should include:

1. General information about the self-contained breathing apparatus supply time limit, and proper packing and storage.

2. How to put the mask on and test for leaks around the face and hose connections.

These drills will be conducted as often as necessary to acquaint the crews with the equipment. After the Oxy Drillsite Manager and the Nabor's Toolpusher are convinced that all personnel are trained, a drill should be conducted. This drill may be initiated any time. The drill will be initiated by the H_2S audible alarm signal given by the Contractor's Representative or the Oxy Drillsite Manager. At this time, all off-duty personnel will immediately get their assigned self-contained breathing apparatus and report to the designated SAFE BRIEFING AREA with their emergency equipment within three minutes after the alarm is sounded.

A training and information session will be conducted after each drill to answer any H_2S related questions and to cover one or more of the following:

1. Condition II and III alerts and steps to be taken by all personnel.

2. The importance of wind direction when dealing with H_2S.

3. Proper use and storage of all types of breathing equipment.

4. Proper use and storage of oxygen resuscitation.

5. Proper use and storage of H_2S detectors and colormetric tube-type detectors.

6. The "Buddy System" and the rescue procedure for a person overcome by H_2S.

7. Responsibilities and duties.

8. Location of H_2S safety equipment.

9. Other parts of the "H_2S CONTINGENCY PLAN" that should be reviewed.

NOTE: A record of attendance must be kept for drills and training sessions. These drills and training sessions must also be documented on the IADC Report.

A-4 Emergency Telephone Notification List

TITLE	NAME	PHONE
Oxy Drilling Superintendent	Tom Zupan	(C) 970-985-0260
Oxy HES Coordinator	Alonzo Hernandez	(C) 970-985-6055
Oxy Drilling Engineer	Rusty Hanna	(C) 970-985-6055
Nabors District Manager	Terry Boyd	(C) 307-797-2223

SAFETY COMPANY	NAME	PHONE
Secorp Industries 2101 Jefferson Street Lafayette, La. 70560		(24 Hours) (800) 327-5026 (337) 237-3471 (F) (337) 235-6278
District Manager	Kyle Sauls	(O) (337) 237-1972 (C) (337) 499-9651

Emergency Phone Numbers

LAW ENFORCEMENT AGENCIES:

Sheriffs Office
250 N Main St
Richfield, UT 84701
15.82 miles from Sevier, UT 84754
(435) 896-2600
Emergency - 911

Police Department
75 E Center St
Richfield, UT 84701
15.67 miles from Sevier, UT 84754
(435) 896-8484
Emergency – 911

Fire Dept
Richfield Interagency Fire Center
(435) 896-6346

Utah Oil & Gas Commission
Major Undesirable Events
Office hours: **801-538-5340**
After hours: **801-243-9466**

Minor Events
Office hours: **801-538-5340**

MEDICAL FACILITIES AND PERSONNEL:

Ambulance
Sevier County Dispatch **(435) 896-6471**

Medical Helicopter
Sevier County Dispatch **(435) 896-6471**

Hospital
Sevier Valley Medical Center
1000 N Main St
Richfield, UT 84701
(435) 893-4100

OTHER EMERGENCY CONTACT:

Poison Control Center **800-292-6678**

A-5 Government Agency Notification Log

NOTIFICATION OF GOVERNMENT AGENCIES IN THE EVENT OF A RELEASE OF HYDROGEN SULFIDE GAS

DATE:

Operating Company:

Oxy Drillsite Manager:

Drilling Contractor/Rig:

Tool Pusher:

Location:

REPORT DATE AND TIME:

ESTIMATED PPM RELEASE:

NOTIFICATION OF GOVERNMENT AGENCIES:

Contact Made By:_____ Individual Contacted Time

STATE AGENCY: (___)_____(phone) _____

Comments: _____

_____

_____

XIII. APPENDIX B

B-1 Properties of Hydrogen Sulfide

- Hydrogen sulfide is a highly toxic, colorless gas with the chemical formula H_2S. It is about 20% more dense than air. It can readily be dispersed by air movement.

- It is weakly soluble in water to produce a slightly acidic solution and is strongly absorbed by alkaline solutions to form metal sulfides.

- Hydrogen sulfide forms flammable mixtures with air. The minimum auto-ignition temperature (260°C-500F occurs at concentrations of about 15%). At higher concentrations it burns mainly to water and sulfur and at lower concentrations to water and sulfur dioxide and combustion occurs with a pale blue flame.

- Hydrogen sulfide is highly corrosive to certain metals. In particular materials containing copper should never be utilized.

- Metal sulfides are all combustible. In some cases spontaneous ignition at room temperature is possible.

- Hydrogen sulfide is easily identified by its characteristic smell of rotten eggs at **low** concentrations 1-30 ppm. A noticeable odor will exist at very low concentrations (0.01ppm). At higher concentrations it becomes sweetish and at about 150 ppm olfactory paralysis occurs when the sense of smell cannot be relied on at all.

B-2 Physiology and Long Term Effects

- As stated previously, H_2S is extremely toxic at relatively low concentrations. Table 1 lists the various effects at different levels of exposure.

- At very low concentrations, in normal circumstances, it is absorbed through the lungs into the blood stream forming non-toxic compounds. As the level of the free radical increases it poisons the nervous system producing eventual paralysis of the respiratory centre in the brain causing respiratory failure and death.

- In addition, H_2S has a profoundly irritant effect on the eyes due to the formation of weak sulfurous acid. Acute damage may be severe with blurring of vision and the formation of blisters. Recovery is usually complete, scarring is very rare and there are no cumulative effects.

- At high concentrations the sense of smell is rapidly lost, and death by respiratory paralysis is rapid if exposure continues.

- Recent medical research now indicates that perforated eardrums do not pose any significant risk as a route for absorption of H_2S.

- Alcohol in the blood stream enhances the effect of H_2S poisoning.

- Delayed irritant effects on the lungs may present acute chemical pneumonia inflammation up to 24 hours after acute exposure and should be treated as for Pulmonary Edema, by a Medical Practitioner.

- In cases where the victim has been successfully revived, there may be permanent nervous, brain or behavioral damage due to the lack of oxygen supply to the brain during the acute poisoning phase.

TABLE 1

PHYSIOLOGICAL RESPONSES TO CONCENTRATIONS OF H_2S

H_2S Concentration in air (ppm)	Response	Classification
10[1]	Can smell Minimal effect over 8 hours	1. Permissible Exposure Limit (PEL) - 8 hour continuous exposure
10[1]	Minimal eye irritation	Irritation
15[2]	Minimal eye irritation	Irritation
70 – 150	Kills smell in 3 - 15 minutes, irritates eyes, throat and lungs	100 ppm presents Immediate Danger to Life and Health. Concentration that may cause death
150 – 400	Loss of smell Dizziness Difficult respiration Coughing Irritation of eyes, throat and lungs Needs prompt removal to fresh air if respiratory paralysis is to be avoided	Dangerous
400 – 700	Coughing Collapse Unconsciousness Death Breathing will stop and death will result if not given artificial resuscitation immediately	Dangerous May produce severe injury or death
700 – 1000	Rapidly produces unconsciousness - permanent brain damage possible	Immediate threat to life
Above 1000ppm	Immediate unconsciousness, death in a few minutes	

Notes :

1. above values in ppm refer to concentrations "in air" and not "in stream".
2. Above values are approximate as susceptibility varies significantly between individuals exposed

B-3 Drilling Fluids and H_2S Control

The drilling fluid is the primary means of preventing a release of H_2S. It achieves this by:

1) Maintaining sufficient hydrostatic head to prevent H_2S influx from the formation in the wellbore.

2) Keeping H_2S in the mud by converting it to sodium sulfide, provided that the pH is over 10.

3) Removing dissolved H2S and/or sodium sulfide with a scavenger such as Zinc Carbonate or Ironite sponge.

B-4 Controlling Principles

pH Control

In water based mud systems the dissolved H_2S reacts with the caustic to form soluble sulfide. The effect is more pronounced at higher pH. However, if the pH falls below 10, the dissolved sodium sulfide will convert back to H_2S at surface and will come out of solution as a free gas.

Scavengers

At low pH (less than 10) there is equilibrium at surface between H_2S dissolved in mud and H_2S gas bubbling out. At a pH greater than 10.5 the H_2S is converted by caustic to sodium sulfide and there is no H_2S in solution to come out at surface. If the pH is greater than 11.5 and the sulfide levels are increasing then H_2S must be entering downhole. The mud weight should be increased to prevent this and the sulfides should be treated out by adding an H_2S scavenger e.g. Zinc Carbonate or Ironite Sponge. These form insoluble Zinc Sulfides which will not be converted back to H_2S even if the pH drops.

Zinc Carbonate is the most commonly available scavenger. Approximately 0.5 lb/bbl is sufficient to treat 200 ppm H_2S or sulfide ions in the mud.

Large additions of zinc carbonate will adversely affect mud properties. This can be reduced by strict control of drilled solids and by adding thinners and KOH to the mud. These should be added as a premix to maintain the pH above 11.5.

B-5 Monitoring of H_2S Drilling Fluids

There are various methods available to monitor the level of H_2S contamination in drilling mud. The majority requires the use of mud laboratory test facilities and is not continuous in nature.

None of these methods will positively identify the presence of H_2S in the formations, but if the mud is close to balance, and seeps into the mud, they should detect it.

B-6 Stocking of Materials

A minimum stock of Zinc Carbonate to the treat the entire active system with 0.5 lbs per bbls or one (1) pallet which ever is greater should at the rig site at all times.

XIV. APPENDIX C

C-1 Effects of H_2S on Drilling Equipment

Sulfide Stress Cracking (SCC)

Sulfide Stress Cracking, also known as hydrogen blistering, hydrogen enbrittlement and stress cracking, is due to reaction of iron in a moist H_2S environment.

$H_2S + Fe + H_2O$--> FeS (Iron Sulfide) + 2H (free Hydrogen + H_2O)

- Most of the hydrogen produced is released but, with pressure, some is absorbed into the metal. It migrates along the grain boundaries and recombines to form molecular hydrogen which occupies a larger volume than the hydrogen atoms.
- The hydrogen molecules cause increased internal stresses leading to blistering or embrittlement. This occurs particularly if there are any inclusions in the steel.
- Hydrogen embrittlement occurs in materials with yield strengths of over 90,000 psi. It is a true intergranular failure of the material. It is a delayed failure, since time is required for the hydrogen to diffuse in the metal to points of high stress.

Factors Affecting Failure

Failure of materials is affected by the following factors:

- H_2S concentration
- Total and partial pressure applied
- Metal chemical composition, strength, heat treatment and microstructure
- Total tensile stress
- Temperature
- Time
- Solution pH

Standards applying to metals for H2S Situations

The most commonly applied standard for metals in a H_2S environment is the NACE Standard MR-01-75 (latest edition). This is generally accepted as the Standard for all oilfield equipment.

C-2 Metals for Use in H_2S Environment

- The major selection criterion for any metal that is to be used in an H_2S environment is the surface hardness. The relationship of SSC and surface hardness is well documented and it is evident that metals of less than 22 Rockwell "C" Hardness Scale are not susceptible to Sulfide Stress Corrosion (SSC).
- The second selection factor is the ultimate yield strength. This should be less than 95,000 psi.
- Metals within this range will not fail due to SSC throughout the full temperature range. However, there is evidence that stronger materials can be used above 160°F - see Tables 2 and 3.
- It is worth examining the various common components used in drilling in H_2S environments and how they vary from standard items.
- API recommends that all steel drill pipe used has a yield strength of less than 95,000 psi. Any failure is likely to occur near the surface, where the pipe is under maximum stress and does not have the protection of elevated temperatures. This restriction affects string design on deep wells.
- If aluminum drill pipe is used, pH must be limited to 10.5 avoid accelerated weight loss corrosion.
- Tubular goods must be made up correctly to prevent stress concentrations which can cause SSC.

Drill Collars

These are largely unaffected by H_2S because of the lower stress involved and the high operating temperatures.

Annular BOPs

Hydril manufacture their annulars with material of hardness less than Rc22 to permit use in H_2S.

The selection of packing units is governed by drilling fluid type rather than H_2S. However, H_2S will reduce the service life of the material.

BOPs

Both API and NACE lay down standards for BOP's in H_2S service. The basic requirement is for materials of hardness less than Rc22.

This is not always possible for the rams. For blind rams and rams, materials up to Rc26 can be used. For blind rams and shear rams, the blades must be of high strength, high hardness material. This makes them susceptible to SSC.

Rubber goods in the BOP's need to be changed to nitrile elastomers.

Wellhead valves for H_2S

These are produced generally to NACE MR-01-75 however, some companies prefer to tailor valves to specific requirement.

Welding of Materials

On H_2S equipment most connections are made by welding or welded flanges. The important point is that after welding the Heat Affected Zone (HAZ) must be stress relieved by tempering. The hardness of the HAZ and base metal must be less than Rc22.

The welds must be qualified to appropriate API or ASME specifications. **THIS PRECLUDES ANY FIELD WELDING.**

C-3 Precautions against H_2S Corrosion

An advantage in drilling is that the service environment can be controlled. Also operations take place at high temperatures which reduces H_2S attack.

Drilling Fluids

A number of methods can be used to control the effects of H_2S on the drill string:

1) Use of sulfide scavengers, to chemically absorb the H_2S e.g. Ironite sponge or Zinc carbonate.
2) Keeping pH in mud between 10 and 11.5 will help to neutralize H_2S.
3) Using oil based mud to form a non-conductive oil film on the steel.

Inspection of Components

- It is difficult to inspect items exposed to H_2S for possible SSC, due to the inter-granular nature of the attack.
- If blistering occurs or the SSC is associated with inclusions in the metal, it can be detected by ultra-sonic or x-ray.

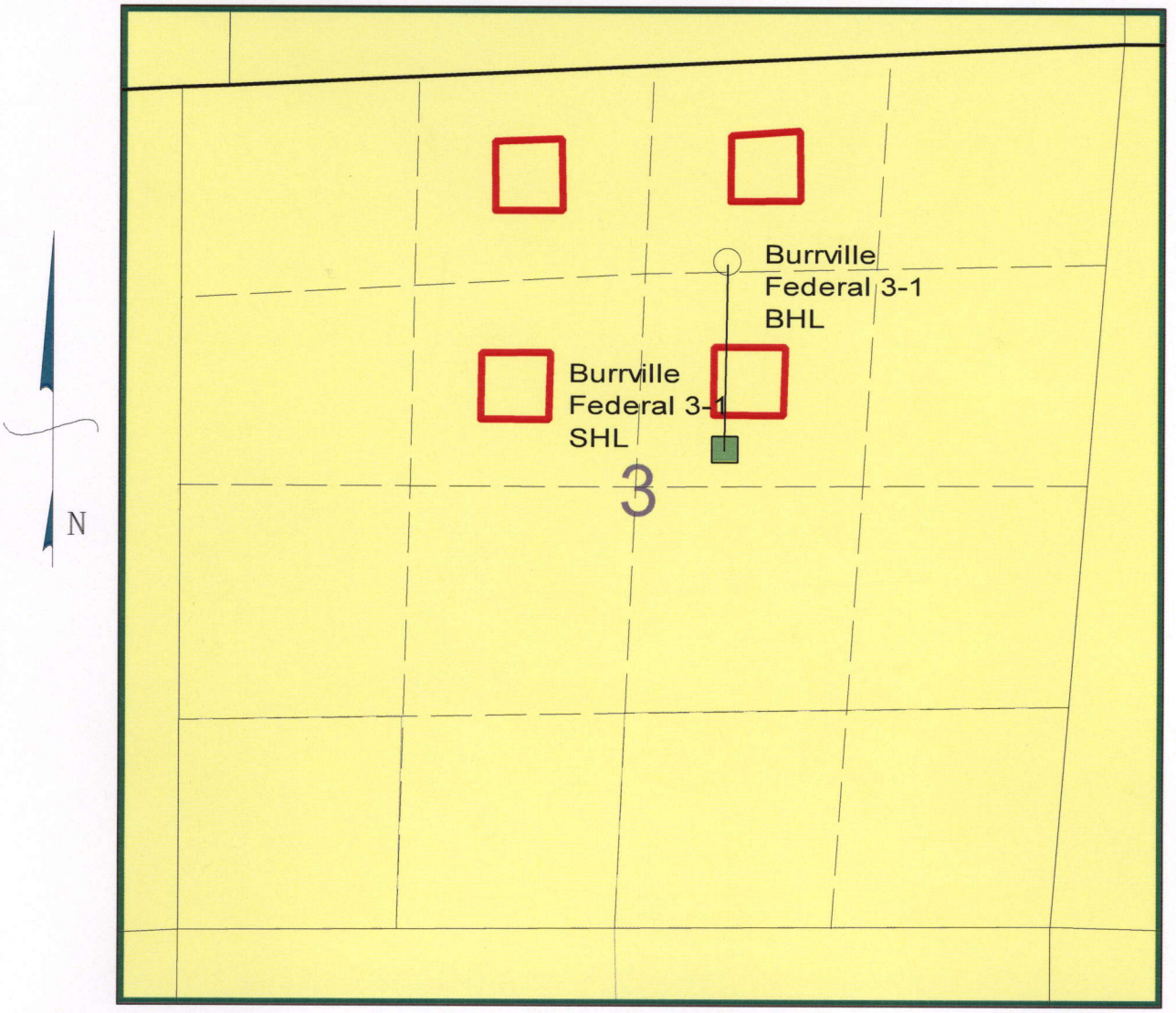
TABLE 3

Acceptable Materials for Subsurface Equipment for Direct Exposure to Sour Environment.

USE	MATERIAL
Drillable packer components	Ductile Iron (ASTM A-536, A-571
Drillable packer components	Malleable Iron (ASTM A-2000, A-602)
Compression members	Gray Iron (ASTM A-48, A-278)
All	SCR-1Mo (ASTM A-199 Gr T9, A-200 Gr T9, A-276 Gr F9)*
	ASTM A-213 T9

* Maximum hardness of HRC 22

ABSTRACT FROM NACE MR-01-75 (1980)



Burrville Federal 3-1 Well Location

SHL: 2313' FNL, 2194' FEL, SW/4 NE/4, Sec. 3, T25S, R1W, Sevier Co., UT

BHL: 1155' FNL, 2225' FEL, NW/4 NE/4 Sec. 3, T25S, R1W, Sevier Co., UT

Wolverine Lease

Proposed
Burrville Federal 3-1 BHL

Proposed
Burrville Federal 3-1 SHL

400' x 400'
R649-3-2 window

1 inch = 1000 feet

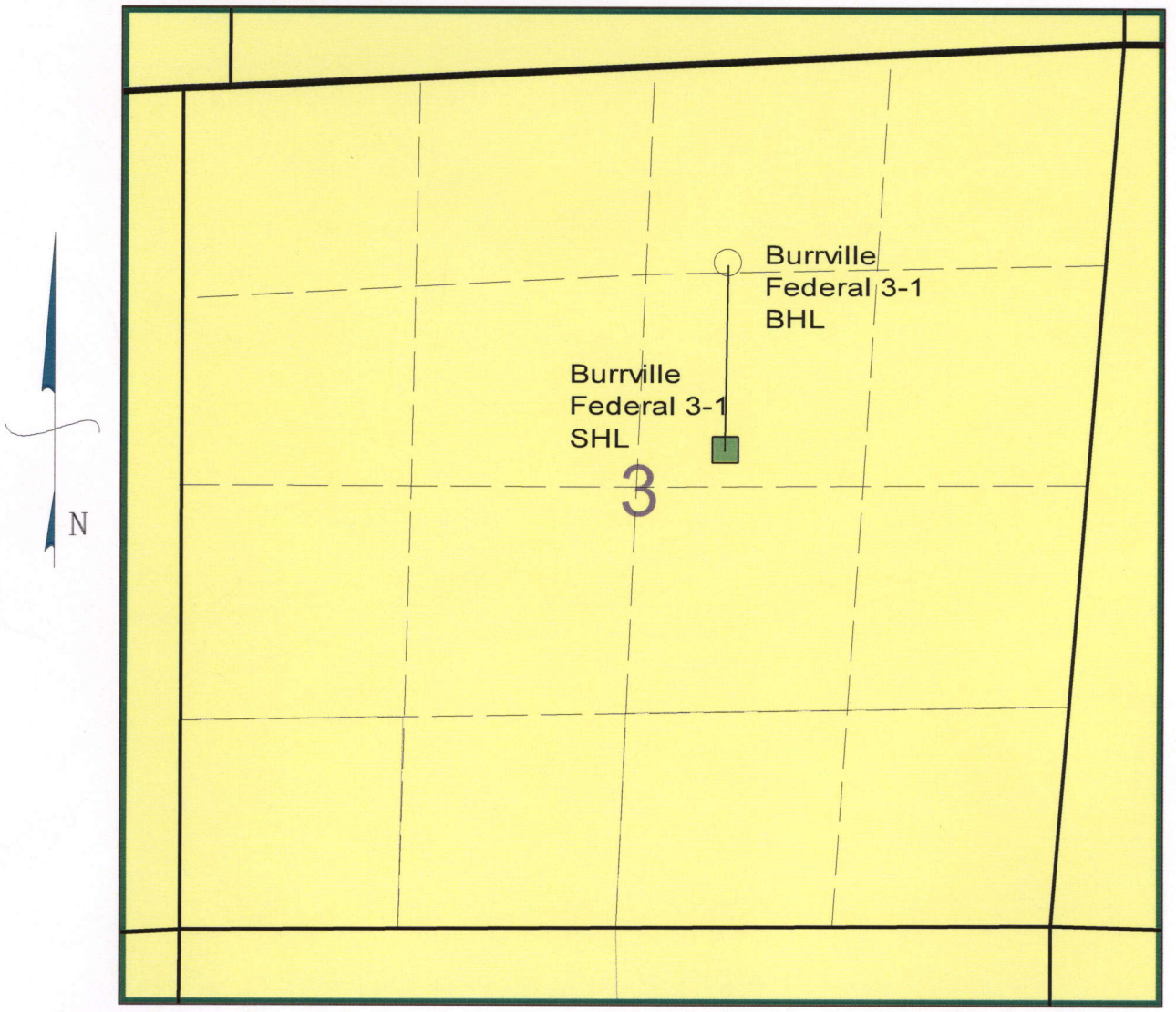
660 0 660 1320 1980 ft

WOLVERINE OPERATING COMPANY
of Utah, LLC
Energy Exploration in Partnership with the Environment

ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Exception Location and Ownership Plat
(R649-3-2)

Date: 6/26/2008	Author: Filename: burrville 3-1 well location



Burrville Federal 3-1 Well Location

SHL: 2313' FNL, 2194' FEL, SW/4 NE/4, Sec. 3, T25S, R1W, Sevier Co., UT

BHL: 1155' FNL, 2225' FEL, NW/4 NE/4 Sec. 3, T25S, R1W, Sevier Co., UT

Wolverine Lease

Proposed
Burrville Federal 3-1 BHL

Proposed
Burrville Federal 3-1 SHL

1 inch = 1000 feet

660 0 660 1320 1980 ft

WOLVERINE OPERATING COMPANY
of Utah, LLC
Energy Exploration in Partnership with the Environment

ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Directional Drilling Application Plat
(R649-3-11)

Date: 6/26/2008	**Author:** **Filename: burrville 3-1 well location**

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/30/2008

API NO. ASSIGNED: 43-041-30059

WELL NAME: BURRVILLE FED 3-1

OPERATOR: WOLVERINE OPERATING CO (N3035)

PHONE NUMBER: 435-896-1943

CONTACT: PAUL SPIERING

PROPOSED LOCATION:

SWNE 03 250S 010W

SURFACE: 2313 FNL 2194 FEL

BOTTOM: 1155 FNL 2225 FEL

COUNTY: SEVIER

LATITUDE: 38.66535 LONGITUDE: -111.8933

UTM SURF EASTINGS: 422286 NORTHINGS: 4279813

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-81360

PROPOSED FORMATION: KBAB

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

_____ Plat

_____ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY3329)

_____ Potash (Y/N)

_____ Oil Shale 190-5 (B) or 190-3 or 190-13

_____ Water Permit
(No. 61-2175)

_____ RDCC Review (Y/N)
(Date:)

_____ Fee Surf Agreement (Y/N)

_____ Intent to Commingle (Y/N)

LOCATION AND SITING:

____ R649-2-3.

Unit: _____

____ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

____ R649-3-3. Exception

____ Drilling Unit

Board Cause No: _____

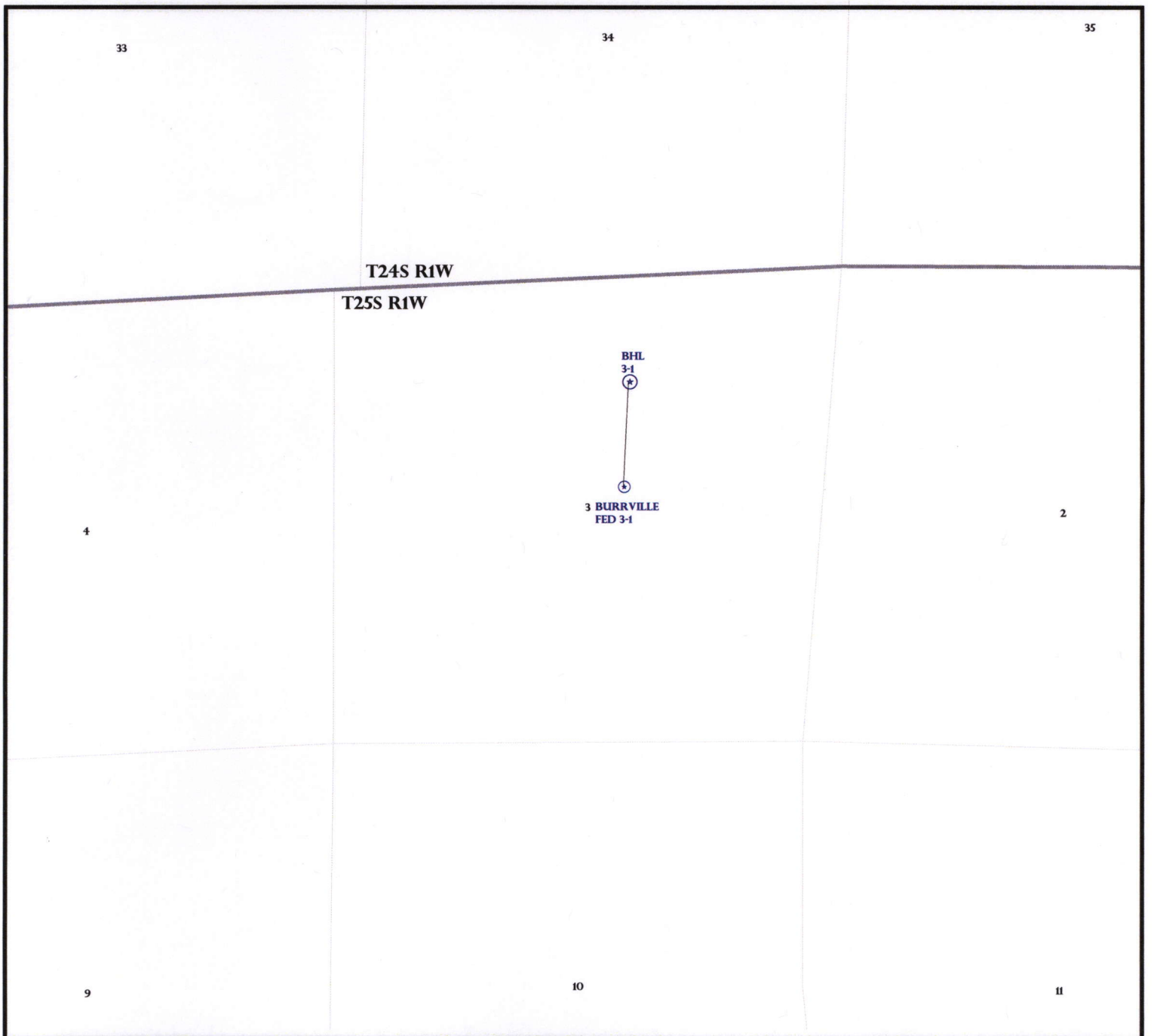
Eff Date: _____

Siting: _____

____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____



OPERATOR: WOLVERINE OPER CO (N3035)

SEC: 3 T.25S R. 1W

FIELD: WILDCAT (001)

COUNTY: SEVIER

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 28-JULY-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
RICHFIELD FIELD OFFICE
150 East 900 North
Richfield, Utah 84701

TAKE PRIDE IN AMERICA

In Reply Refer To:

3160
(UT-050)

September 15, 2008

CERTIFIED MAIL NO. 7008 1300 0001 0523 0260
RETURN RECEIPT REQUESTED

43 041 30059
Burrville Fed 3-1
25S 1W 3

Mr. Paul Spiering
Wolverine Operating Company of Utah, LLC
1140 North Centennial Park Drive
Richfield, Utah 84701

RE: Application for Permit to Drill, Burrville Federal 3-1 and Conditions of Approval

Dear Mr. Spiering:

Your Application for Permit to Drill (APD) the Wolverine Burrville Federal 3-1, SW¼NE¼ Section 3, T. 25S., R.1W., SLB&M, Sevier County, Utah, is approved with the attached Conditions of Approval.

The APD was filed in this office on June 25, 2008 with a Surface Use Plan of Operations and a Drilling Program. Technical review of the APD has been completed as part of the approval process and the completion of an environmental assessment. On July 21, 2008, the application was modified that provided additional documentation. The environmental assessment has been based on the APD as modified, the approval is for the APD package, including the original filing and the subsequent modification.

Copies of the approved APD and Conditions of Approval are enclosed for your records.

If you have any questions, please contact Stan Andersen at (435) 896-1532.

Sincerely,

Wayne A. Wetzel
Associate Field Office Manager

Enclosure:
APD with Surface Use Plan of Operations and Drilling Program (including the modification)
Conditions of Approval

RECEIVED
SEP 18 2008
DIV. OF OIL, GAS & MINING

cc: file
Al McKee (U-922)
State of Utah, Division of Oil, Gas and Mining, PO Box 145801, Salt Lake City, UT 84114-5801

RECEIVED

JUL 21 2008

Richfield BLM Field Office

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-81360

6. If Indian, Allotee or Tribe Name
N/A

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
N/A

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Burrville Federal 3-1

2. Name of Operator Wolverine Operating Company of Utah, LLC

9. API Well No.
43 041 30059

3a. Address 1140 N Centennial Park Drive
Richfield, Utah 84701

3b. Phone No. *(include area code)*
435-896-1943

10. Field and Pool, or Exploratory
Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface 2313' FNL, 2194' FEL, being in SW4NE4
At proposed prod. zone 1155' FNL, 2225' FEL, being in NW4NE4

11. Sec., T. R. M. or Blk. and Survey or Area
Section 3, T25S, R1W, SLB&M

14. Distance in miles and direction from nearest town or post office*
8 miles north of Burrville, Utah

12. County or Parish
Sevier

13. State
UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1155'

16. No. of acres in lease
1,596.92

17. Spacing Unit dedicated to this well
40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
None

19. Proposed Depth
16,050' (16,000' TVD)

20. BLM/BIA Bond No. on file
BLM WY3329

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
7,605.2 GR

22. Approximate date work will start*
12/01/2008

23. Estimated duration
120 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature
Name *(Printed/Typed)* Paul Spiering
Date 07/15/2008

Title
District Land Manager

Approved by *(Signature)* Wayne A. Wetzel
Name *(Printed/Typed)* Wayne A. Wetzel
Date 12 Sept 2008

Title Associate Field Manager
Office Richfield Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. **Conditions of Approval Attached**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

RECEIVED
SEP 18 2008
DIV. OF OIL, GAS & MINING

08PH0001A

CONDITIONS OF APPROVAL

Company:	Wolverine Operating Company of Utah, LLC.
Well No:	Burrville Federal #3-1
Location:	NW¼ NE¼ Sec 3, T. 25 S., R. 1 W. SLB&M Sevier County, Utah
Lease No:	UTU-81360

I. Please Note:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR parts 3100, 3160 and 3180), lease/agreement terms, Onshore Oil and Gas Orders, Notice to Lessee's, and this approved plan of operation.

A copy of the approved application and these conditions shall be maintained on location during all construction and drilling operations. Deviation from the approved plan without prior approval is not allowed.

The operator is fully responsible for the actions of his subcontractors.

Operators have the responsibility to assure that activities authorized by this permit are conducted in a manner that complies with other applicable Federal, State, and local laws and regulations.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

This Application for Permit to Drill (APD) shall be valid for two years from the date of approval, provided the lease does not expire. If activities have not commenced by the end of the two-year period, the APD shall be returned to the operator without prejudice. Should the operator still desire to drill the well, a new APD must be submitted to this office. Upon written request by the operator, a one-time **two year** extension to this time period may be granted by the Authorized Officer (AO).

Failure to comply with the provisions of this permit, including applicable regulations, stipulations, and/or approval conditions, will be considered a violation subject to the enforcement provisions of 43 CFR Subpart 3163.

If fill materials are needed to maintain roads or well sites, proper permits must be obtained from the appropriate surface owner. On BLM administered lands, the use of materials shall conform with 43 CFR §3610.2-3.

II. Required Notifications:

The operator and contractor shall contact the BLM, Richfield Field Office - **(435) 896-1522**, at least 48 hours prior to commencement of access and site construction or reclamation activities. (Contact: **Bert Hart**).

The operator shall contact the BLM, Utah State Office, Branch of Fluid Minerals, **(801) 539-4045**, FAX (801) 539-4200, at least 24 hours prior to the following operations (Contact: **Al McKee**):

- spudding (including dry hole digger or rig hole rigs);
- running and cementing all casing strings;
- pressure testing of BOPE or any casing string.
- pressure integrity test (mud weight equivalency test) of each casing shoe.

In the case of newly drilled dry holes, and in any emergency situation, after hour authorization may be obtained by contacting the following individuals, in the order listed:

Utah State Office, BLM, Branch of Fluid Minerals

Al McKee	(801) 572-6911 (Home)
Petroleum Engineer	(801) 828-7498 (Cell)
Larry Denny	(801) 865-2337 (Cell)
I&E Coordinator	(801) 928-9570 (Cell)
	(801) 539-4048 (Office)

If unable to reach any of the above individuals, please call the following:

Bert Hart	(435) 979-7134 (cell)
Natural Resource Specialist	

III. Conditions of Approval:

A. Drilling Plan - The drilling plan of the Application for Permit to Drill will be supplemented as follows:

1. Onshore Order No. 2, *Drilling Operations*, requires that all formations containing usable quality water (less than 10,000 ppm) be protected via cement. If encountered while drilling, usable quality water would require protection by bring the cement at least ±100' above the usable quality water zone.

2. No variances were requested nor approved from the minimum standards of Order Nos. 2 and 6.

3. After running and cementing the 9-5/8" intermediate casing, a cement bond log, cement evaluation tool, or equivalent shall be run to determine cement top and quality. Results will be reported to BLM, attn: Al McKee. Any necessary remedial operations will be conducted prior to drilling out of the shoe.

4. Daily drilling and completion progress reports shall be submitted to the Utah State Office on a weekly basis, and shall include daily mud reports.

5. The authorized officer shall be notified when operations are 500 feet above or 3 days before (whichever is earlier) drilling the first formation expected to contain H_2S.

6. A copy of the Drilling Operations Plan (DOP) shall be available during operations at the wellsite beginning 500 feet above or 3 days before (whichever is earlier) drilling the first formation expected to contain H_2S.

7. A copy of the PPP shall be available at the drilling and/or completion site.

8. H_2S DOP and PPP shall be reviewed by the operator on an annual basis and copy of any necessary revisions shall be submitted to the authorized officer upon request. The DOP and/or PPP will also be reviewed during any operator changes. The BLM will be notified when this review has been completed.

9. If unanticipated H_2S in excess of 100 ppm in the gas stream is encountered, the operator shall immediately ensure control of the well, suspend drilling operations (unless detrimental to well control), and obtain materials and safety equipment to bring the operations into compliance with the applicable provisions of Order No. 6. In addition, the operator shall notify the authorized officer of the event and the mitigating steps that have or are being taken, as soon as possible, but no later than

the next business day. If said notifications are subsequent to actual resumption of drilling operations, the operator shall notify the authorized officer of the date that drilling was actually resumed.

10. A rotating head shall be utilized while drilling all formations of concern (OO#6.III.C.4.a.ix).

11. A mud degasser (in addition to the mud gas separator) shall be in place and operable during the drilling of all formations of concern (OO#6.III.C.4.c).

12. A remote controlled-choke shall be utilized while drilling all formations of concern. (OO#6.III.C.4.viii)

13. Operational danger or caution sign(s) shall be displayed along all controlled access to the site. The sign shall be painted a high visibility red, black and white or yellow with black lettering. The sign shall be placed a minimum of 200 feet but no more than 500 feet from the location and at a location which allows vehicles to turn around (OO#6.III.C. d.3.ii, iii, iv & v).

14. Metallurgical properties of all tubular goods and well control equipment shall conform to NACE STD **MR-0175-90** or equivalent (OO#6.III.C.4.b).

15. As an alternative road is not practical, a clearly marked footpath flagged to a safe area is acceptable (OO#6.III.C.2.a).

16. All required notifications, including any requests for approval or hydrogen sulfide issues, shall be made to: Al McKee at (801) 539-4045; or after hours at (801) 572-6911. Please leave as detailed as message as necessary.

17. Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer (AO). All conditions of this approval shall be applicable during any operations conducted with a replacement/completion rig.

18. Two copies of all logs, and a single copy of core descriptions, core analyses, drill stem tests, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling and/or completion operations shall be submitted to the BLM, Utah State Office, Branch of Fluid Minerals, at P.O. Box 45155, Salt Lake City, Utah, 84145-0155.

19. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever comes first, without the prior written approval of the authorized officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

20. Section 102 (b) (3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1 (c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is begun or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever occurs first.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109 (c) (3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1 (c) and 3163.2 (e) (2).

B. Surface Use Plan of Operations - The surface use plan of operations for the Application for Permit to Drill will be supplemented as follows....

1. Any cultural resources be unearthed, surface-disturbing activities will be re-routed to avoid or halted until the cultural sites/artifacts can be evaluated for significance, and a mitigation/salvage plan be formulated. These actions will successfully mitigate possible impacts to cultural resources such that, a detailed analysis will not be not required.

2. All materials brought in from off site for road or pad construction will come from a pit free of invasive, non-native species.

3. All Federal and State laws will be followed regarding use, storage and disposal of hazardous materials and solid wastes. The areas will be kept clean and free of litter and utilizing appropriate human waste facilities will be used during the operation. Waste and these facilities will be removed from the site and properly disposed of upon completion of the project. Any petroleum spills will be cleaned-up in accordance with State and Federal laws and regulations. Trash will be contained in a portable, self-contained trash cage and hauled to a sanitary landfill.

4. The Applicant has committed to monitoring and treating any noxious weeds along the right-of-way, and the well site. All equipment will be power washed to reduce the potential of introducing new weed species into the area. All berms, drill pad slopes, and spoils pile will be reseeded the first fall after the disturbance is made to keep weeds from invading the disturbed sites.

5. Topsoil will be collected and piled and used in the final rehabilitation process. All of the seed will be mixed together, and will either be broadcast seeded or drill seeded. If the area is broadcast seeded then this will be done by using a four-wheeler equipped with a seeder.

RECOMMENDED SEED MIXTURE

Plant Species	Pounds/Acre
1) Hycrest Crested Wheatgrass	1.0
2) Luna Pubescent Wheatgrass	1.5
3) Kentucky Bluegrass	1.5
4) Magnar Great Basin Wildrye	1.0
5) Covar Sheep Fescue	1.0
6) Vasey Big Sagebrush	1.0
7) Penstemon eatonii	0.5
8) Penstemon palmeri	0.5

9) Yellow Sweetclover	1.0
10) Ranger Alfalfa	1.5
11) Appar Lewis Flax	1.5
12) Common Sunflower	1.5
13) Delar Small Burnet	1.5
14) Eski Sainfoin	1.0
TOTAL	16.0

Seeding rate will be 16 pounds per acre. After broadcast seeding, then the area will be drug with a small harrow (used with four wheeler), which will cover the seed. Seed certification tags will be presented to the BLM.

If the area is drill seeded then a small tractor equipped with a farm drill will be used. Seeding rate will be 8 pounds per acre.

All of the seeding will be done in middle to late fall (October/November) to prevent premature sprouting and subsequent winter killing of the forb species, due to late summer/early fall precipitation combined with warm soil temperatures. Additionally, Birchleaf Mtn. Mahogany, Bitterbrush and Curlleaf Mtn. Mahogany seedlings will be planted to ensure the reestablishment of important browse species.

6. A sign noting that the access road is a dead end will be installed at the beginning of the access road.

7. If any vertebrate fossils are observed during construction all work will cease until consultation with the BLM has been completed.

8. The reserve pit will be fenced on three sides during drilling and on the fourth side when the drill rig is removed from the site.

9. All junk, debris, or other foreign material must be removed before initiating any dirt work to restore the location. The fence around the reserve pit will be maintained in good repair during the drilling operations and will be completed by constructing the fourth side while the pit is drying. It will remain in place until the pit is completely dry and the site restoration begins.

10. Site reclamation will include:

- Removing any road base material that may have been added to the access road or pad;
- Re-contouring the access road and well pad to approximate natural contours and conditions, to the extent practicable; evenly redistributing stockpiled topsoil over the re-contoured areas, the cut and fill slopes, and all other disturbed areas;
- Scarifying of all disturbed areas (including the access road) and re-contoured areas prior to seeding, by use of a disk or harrow, to provide for a slightly roughened surface condition capable of collecting precipitation and holding surface water to promote seed germination.
- Cut and fill slopes will be stabilized, stockpiles, and other disturbances will be seeded for re-growth of vegetation to stabilize slopes and to reduce erosion
- If the fluids in the reserve pit have not evaporated within 90 days, the fluids will be pumped from the pit and disposed of in accordance with applicable BLM regulations. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. All stockpiled topsoil, in proportion the area being reclaimed, will be used in reclaiming areas without an on-going operation.
- If the reserve pit has adequate capacity, any mineral materials that may have been used will be buried in the reserve pit, provided that the mineral materials are not contaminated by oil or other waste materials. Culverts will be removed from the site. If they are salvageable they will be

used in other construction projects. If not, they will be disposed in a landfill. The cellar (six foot diameter concrete structure or culvert) from the base of the drill rig will be removed from the site and disposed in a landfill, or with the approval of the Authorized Officer may be broken down into small pieces and buried during the re-contouring on the site.

- During the life of the project, until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction (spread), and treatment will continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.
- Any soils contaminated from oil spills will be disposed of in an approved landfill.
- Any accumulation of hydrocarbons in the reserve pit will be removed and recovered for sale unless it is determined by the Authorized Officer to be waste oil. All waste oil will be disposed of properly at approved facilities.
- For reclamation, the polyurethane liner in the reserve pit, which is exposed above the cuttings, will be cut, removed from the site, and disposed in an approved landfill. The reserve pit will be backfilled to slightly above grade to allow for settling of the unconsolidated fill material.
- All equipment and vehicles will be confined to the access roads and well pad.
- All permanent structures, including pumping units, constructed or installed will be painted a flat, non-reflective color, as described on page 40 of the Gold Book (Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development, 4th Edition 2007). Prior to painting permanent structures, the operator will submit a Sundry Notice for approval of a color proposed by the applicant. Permanent structures are defined as being on location for six months or longer. Facilities that must conform to a color standard required Occupational Safety and Health Act (OSHA) may not conform to the Gold Book standards.

11. Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire, the Richfield Interagency Fire Center will be notified at (435-896-8404).

12. Any facilities in an existing right-of-way that are damaged as a result of the oil and gas construction, operation, maintenance, or termination shall be repaired or replaced to the same condition as existed prior to the damage. Any costs for such damage or repair shall be the total responsibility of the Applicant.

13. All borehole fluids must be contained in the reserve pit. All appropriate measures must be taken to prevent leakage into the substratum or onto the surface. All appropriate measures must be taken to prevent overflow, and a minimum of 2 feet of freeboard must be maintained in the reserve pit.

14. If the flare pit is constructed by fill embankment, a keyway or core trench 10 to 12 feet wide shall be excavated to a minimum depth of 2 to 3 feet below the original ground level. The core of the embankment must be constructed with water-impervious material.

15. Erosion control and re-vegetation measures shall be implemented to insure that the lands disturbed by construction and maintenance activities will be restored to a stable, productive, and aesthetically acceptable condition.

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **9/24/2008**

FROM: (Old Operator):	**TO:** (New Operator):
N3035-Wolverine Operating Co of UT LLC	N0415-OXY USA, Inc.
55 Campau NW	PO Box 27757
Grand Rapids, MI 49503-2616	Houston, TX 77227-7757
Phone: 1 (616) 458-1150	Phone: 1 (970) 263-3637

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
BURRVILLE FED 3-1	03	250S	010W	4304130059		Federal	OW	APD	C
PLATEAU VLY FED 35-1	35	250S	010W	4304130060		Federal	OW	DRL	C

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/29/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/18/2008
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 9/29/2008
4a. Is the new operator registered in the State of Utah: _____ Business Number: 823198-0143
5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 9/29/2008
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 9/29/2008
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 9/29/2008

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ES0136
2. Indian well(s) covered by Bond Number: n/a
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number n/a
3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
UTU-81360

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Burrville Federal 3-1

2. Name of Operator
OXY USA Inc. (OXY) N0415

9. API Well No.
43-041-30059

3a. Address
P.O. Box 27570
Houston, TX 77227-7757

3b. Phone No. *(include area code)*
(970) 263-3637

10. Field and Pool or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Section 3, Township 25 South, Range 1 West, SLB&M
At surface: 2313' FNL, 2194' FEL, being in SW4NE4 At prod. zone: 1155' FNL, 2225' FEL, being in NE4NE4

11. Country or Parish, State
Sevier, UT (041)

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Operator change
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. (OXY) is providing notice that the operator of the Burrville Federal 3-1 well has changed from Wolverine Operating Company of Utah, LLC to OXY. OXY requests the effective date to occur on or around September 24, 2008. As part of the operator transfer, OXY has reviewed and accepts the conditions of approval as issued on September 15, 2008 by Wayne Wetzel of the Richfield Field Office of the BLM. OXY's existing BLM/BIA Bond No. is ES 0136. OXY's Utah oil and gas operator number is N0415. Also, OXY has provided the Utah Oil and Gas commission a copy of the Notice of Intent.

APPROVED 9/29/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
SEP 18 2008
DIV. OF OIL, GAS & MINING

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14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Daniel I. Padilla

Title Regulatory Coordinator

Signature Daniel I. Padilla

Date 9/17/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-81360

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Burrville Federal 3-1

2. NAME OF OPERATOR: Wolverine Operating Company of Utah, LLC N3035

9. API NUMBER: 4304130059

3. ADDRESS OF OPERATOR: ★ 1140 N. Centennial Park Dr. CITY Richfield STATE UT ZIP 84701

PHONE NUMBER: (435) 896-1943

10. FIELD AND POOL, OR WILDCAT: Exploratory

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2313' FNL, 2194' FEL

COUNTY: Sevier

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 3 25S 1W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Wolverine Operating Company of Utah, LLC will not be the operator of record for the Burrville Federal 3-1. The new operator will be OXY USA Inc.

★ 55 Campau NW
Grand Rapids MI 49503-2616
(616) 458-1150

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SEP 29 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Edward A. Higuera TITLE Manager - Development

SIGNATURE DATE 9/25/2008

(This space for State use only)

APPROVED 9/29/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000) (See Instructions on Reverse Side)

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Burrville Federal 3-1
API number:	4304130059
Location:	Qtr-Qtr: SWNE Section: 3 Township: 25 South Range: 1 West
Company that filed original application:	Wolverine Operating Company of Utah, LLC
Date original permit was issued:	09/12/2008
Company that permit was issued to:	Wolverine Operating Company of Utah, LLC

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
✓	**Transfer approved Application for Permit to Drill to new operator**
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. ES 0136		

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Daniel I. Padilla Title Regulatory Coordinator

Signature [signature] Date 9/29/08

Representing (company name) OXY USA Inc.

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

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SEP 29 2008
DIV. OF OIL, GAS & MINING

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DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **OXY USA INC**

Well Name: **BURRVILLE FED 3-1**

Api No: **43-041-30059** Lease Type: **FEDERAL**

Section **03** Township **25S** Range **01W** County **SEVIER**

Drilling Contractor **LANG EXPLORATORY DRLG** RIG #

SPUDDED:

Date **10/09/08**

Time **NOON**

How **DRY**

Drilling will Commence:

Reported by **BLAIR**

Telephone # **OFFICE - (970) 263-3629 OR CELL – (970) 361-8655**

Date **10/09//08** **Signed** **CHD**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	UTU-81360
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: Burrville Federal 3-1
2. NAME OF OPERATOR: OXY USA Inc. (OXY)	9. API NUMBER: 4304130059
3. ADDRESS OF OPERATOR: PO Box 27570 CITY Houston STATE TX ZIP 77227-7757 PHONE NUMBER: (970) 263-3637	10. FIELD AND POOL, OR WILDCAT: Exploratory

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2313' FNL, 2194' FEL, being in SWNE COUNTY: Sevier

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 3 25S 1W S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 10/9/2008	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OXY USA Inc. (OXY) is providing notice of intent to change the original drilling plan for the Burrville Federal 3-1 well. Lang Exploration and Drilling, proposes to drill 30 feet of 40-inch structural pipe and 1100 feet of 20-inch conductor. Both structural and conductor pipes will be cemented to surface. 13-3/8" surface casing is still planned to be set at 3000 feet. This change to the original drilling plan was due to the conventional auger rig not achieving the plans due to an unconsolidated volcanic gravel bed below the pad. Verbal approval was given to OXY by Dustin Ducette on 10/8/2008 for the change to the original drilling plan.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Daniel I. Padilla TITLE Regulatory Coordinator

SIGNATURE Daniel I. Padilla DATE 10/8/08

(This space for State use only)

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OCT 09 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: OXY USA Inc.

Operator Account Number: N 0415

Address: 2754 Compass Drive, Ste 170

city Grand Junction

state CO zip 81506

Phone Number: (970) 263-3629

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304130059	BURRVILLE FEDERAL 3-1		SWNE	3	25S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17171	10/9/2008			10/28/08	

Comments: KBAB

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Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	

Comments:

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Daniel I. Padilla
Name (Please Print)

Signature

Regulatory Coordinator
Title

Date

RECEIVED
OCT 28 2008
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-81360

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Burrville Federal 3-1

2. NAME OF OPERATOR: OXY USA Inc. (OXY)

9. API NUMBER: 4304130059

3. ADDRESS OF OPERATOR: PO Box 27570 CITY Houston STATE TX ZIP 77227-7757

PHONE NUMBER: (970) 263-3637

10. FIELD AND POOL, OR WILDCAT: Exploratory

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2313' FNL, 2194' FEL, being in SWNE

COUNTY: Sevier

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 3 25S 1W S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 10/29/2008	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OXY USA Inc. (OXY) is providing notice of a change in the well location of the Burrville Federal 3-1 well. The new well location will be:

2330' FNL, 2233' FEL in the SWNE of Section 3, Township 25 South, Range 1 West, SLB&M.

New Surface hole location

422274X
4279804Y
38.665290
-111.893393

Federal Approval of this Action is Necessary

Approved by the Utah Division of Oil, Gas and Mining

Date: 11-05-08

By:

NAME (PLEASE PRINT) Daniel I. Padilla TITLE Regulatory Coordinator

SIGNATURE Daniel I. Padilla DATE 10/27/08

(This space for State use only)

COPY SENT TO OPERATOR
Date: 11·6·2008
Initials: KS

(5/2000) (See Instructions on Reverse Side)

OXY USA Inc.
A subsidiary of Occidental Petroleum Corporation

PO Box 27570
Houston, TX 77227-7757

October 27, 2008

Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Subject: **Burrville Federal 3-1**
Directional Drilling Letter (R649-3-11)
Sevier County, Utah

Dear Ms. Mason:

Pursuant to the filing of OXY USA Inc.'s (OXY) Application for Permit to Drill regarding the above referenced well on September 12, 2008, OXY is hereby submitting this letter in accordance with the Oil and Gas Conservation Rule R649-3-11 Exception to location and siting of wells.

OXYs change to the original plan was due to the mislocation of the well stake by the construction company. Before the problem was identified, the surface hole drilling company had drilled approximately 700 feet. OXY therefore drilled approximately 40 feet from the proposed well location. The new well location is 2330' FNL, 2233' FEL being in the SWNE of Section 3, Township 25 South, Range 1 West, SLB&M.

OXY is permitting this well as a directional well to minimize surface disturbance. OXY has notified the BLM who has approved of this location change. OXY certifies being the sole working interest owner within 460 feet of the directional well bore.

Based on the above-mentioned information, OXY requests approval pursuant to R649-3-11.

I can be reached at 970.263.3637 or at daniel_padilla@oxy.com if you have any questions, comments, or if you require additional information. Thank you for your assistance in this matter.

Sincerely,

Daniel I. Padilla
OXY Regulatory Coordinator

enclosures

cc: file

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	UTU-81360
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: Burrville Federal 3-1
2. NAME OF OPERATOR: OXY USA Inc. (OXY)	9. API NUMBER: 4304130059
3. ADDRESS OF OPERATOR: PO Box 27570 CITY Houston STATE TX ZIP 77227-7757 PHONE NUMBER: (970) 263-3637	10. FIELD AND POOL, OR WILDCAT: Exploratory
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2330' FNL, 2233' FEL, being in SWNE QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 3 25S 1W S	COUNTY: Sevier STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/28/2008	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OXY USA Inc. (OXY) is providing notice of change in plans for the size of the Burrville Federal 3-1 well pad. OXY will enlarge the current pad to accommodate the drill rig due to a change in the well location. New earthwork volumes are included below:

Pad surface area (includes pit) = 3.25 AC
Total disturbed area = 5.01 AC
Pad raw volumes:
Cut = 37,545 cubic yards
Fill = 28,306 cubic yards

Ungraded ground elevation = 7,603.2'

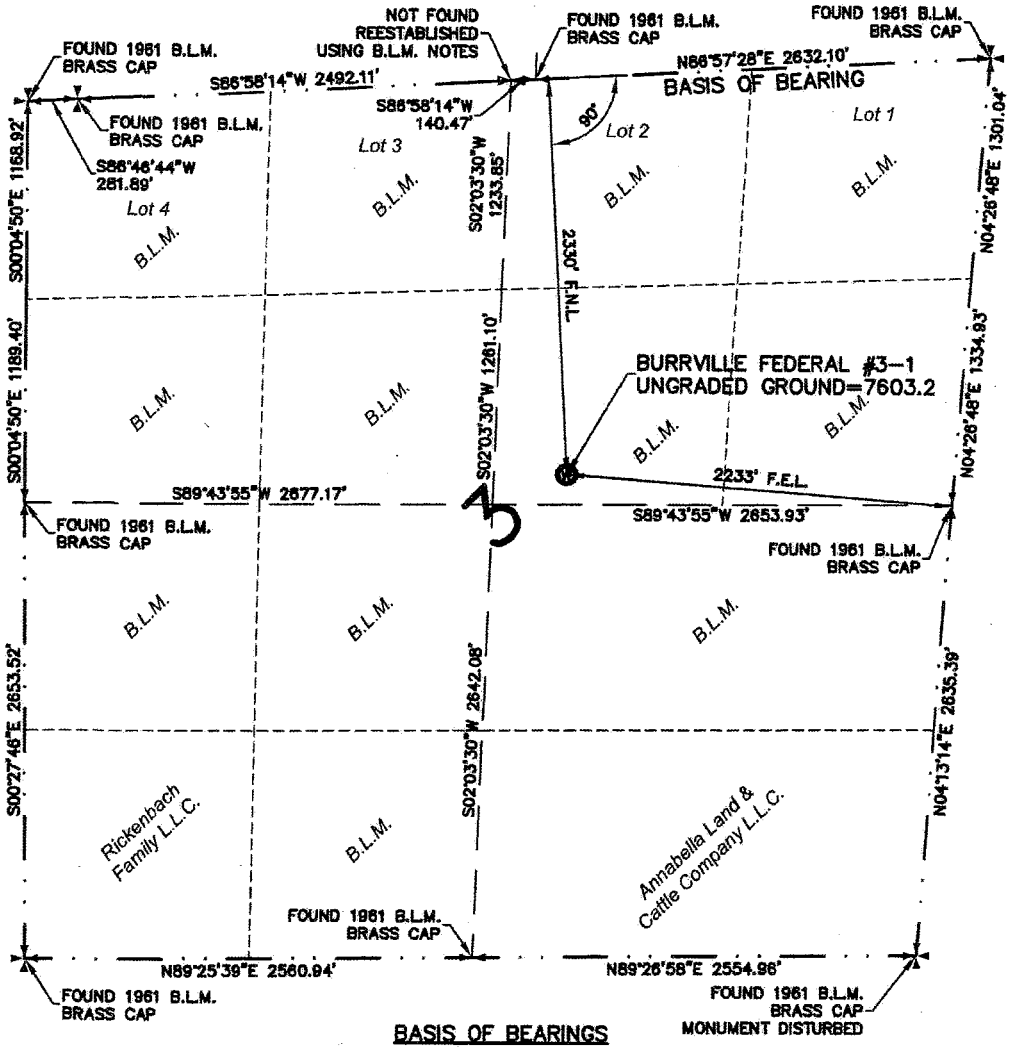
Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Daniel I. Padilla TITLE Regulatory Coordinator

SIGNATURE Daniel I. Padilla DATE 10/27/08

(This space for State use only)

Section 3, T.25 S., R.1 W., S.L.B. & M.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N86°57'28"E BETWEEN THE NORTH QUARTER CORNER AND THE NORTHEAST CORNER OF SECTION 3, T.25 S., R.1 W., S.L.B. & M.

WELL COORDINATES: LATITUDE = 38°39'55.1050" (38.665306944) NAD 83 – UTM ZONE 12N NAD27 N 14041346.267
LONGITUDE = -111°53'38.9935" (-111.894164881) NAD 83 – UTM ZONE 12N NAD27 E 1385403.953

PROJECT

Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATION, LOCATED AS SHOWN IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

LEGEND

- = SECTION CORNERS LOCATED
- = QUARTER SECTION CORNERS LOCATED
- = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE BURRVILLE FEDERAL #3-1 LOCATION LOCATED IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88

1000' 500' 0' 1000'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR TREVOR R. GRAY 5343639 STATE OF UTAH

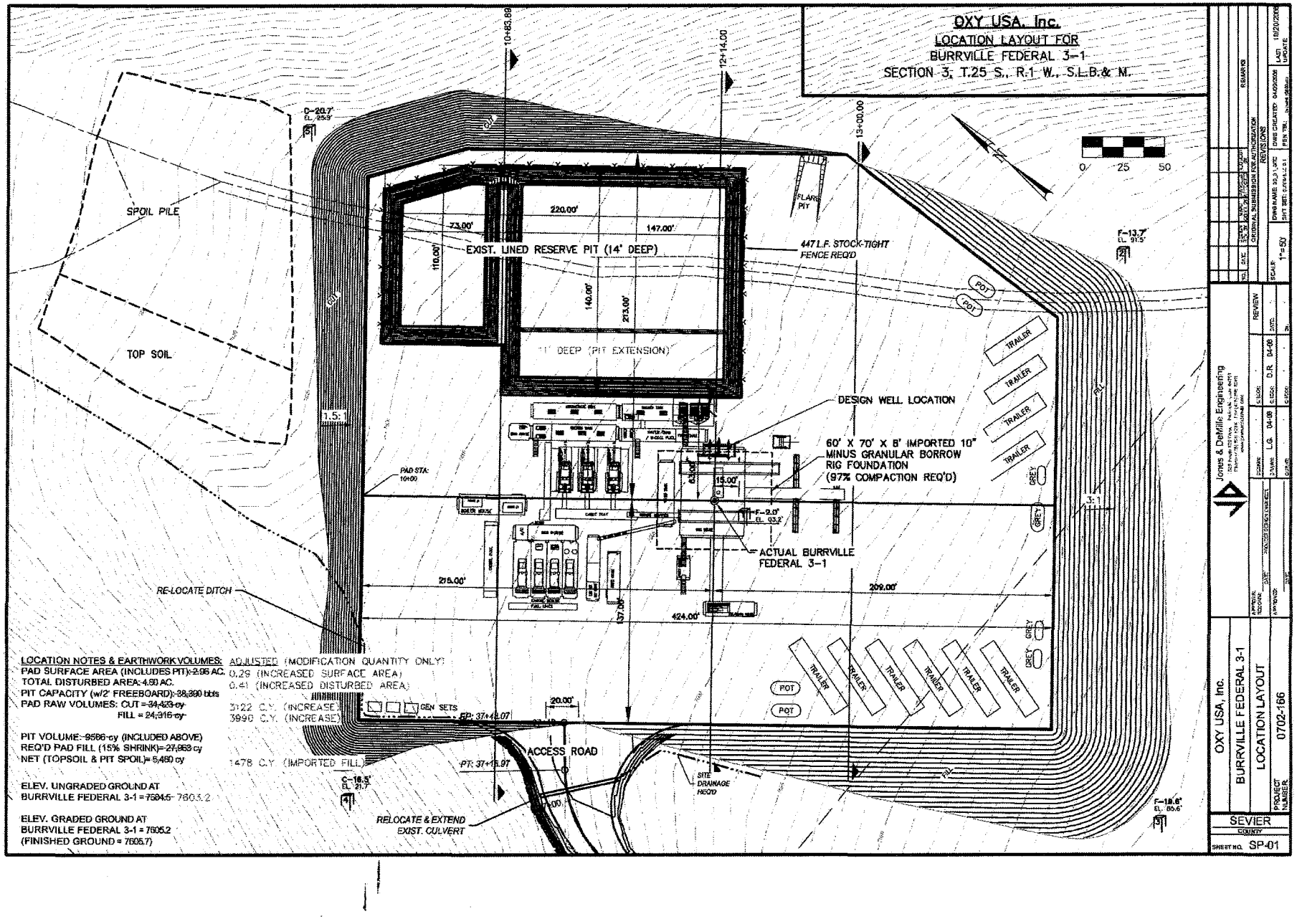
TREVOR R. GRAY P.L.S. 5343639 — DATE 10/20/08

Jones & DeMille Engineering
1535 South 100 West – Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
www.jonesanddemille.com

Well Location Plat for

Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
–	W.H.H.	T.R.G.	T.W.G.	0702-166	1
DATE 07/08/08		DWG NAME NEWBURR...	SCALE 1"=1000'		



LOCATION NOTES & EARTHWORK VOLUMES:

PAD SURFACE AREA (INCLUDES PIT): ~~2.96~~ AC.
TOTAL DISTURBED AREA: ~~4.80~~ AC.
PIT CAPACITY (w/2' FREEBOARD): ~~38,390~~ bbls
PAD RAW VOLUMES: CUT = ~~34,423 cy~~
FILL = ~~24,316 cy~~

PIT VOLUME: ~~9586~~ cy (INCLUDED ABOVE)
REQ'D PAD FILL (15% SHRINK) = ~~27,953~~ cy
NET (TOPSOIL & PIT SPOIL) = ~~5,480~~ cy

ELEV. UNGRADED GROUND AT BURRVILLE FEDERAL 3-1 = ~~7584.5~~ 7605.2

ELEV. GRADED GROUND AT BURRVILLE FEDERAL 3-1 = 7605.2
(FINISHED GROUND = 7605.7)

ADJUSTED (MODIFICATION QUANTITY ONLY)
0.29 (INCREASED SURFACE AREA)
0.41 (INCREASED DISTURBED AREA)
3122 C.Y. (INCREASE)
3990 C.Y. (INCREASE)
1478 C.Y. (IMPORTED FILL)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
UTU-81360

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Burrville Federal 3-1

2. Name of Operator
OXY USA Inc.

9. API Well No.
43-041-30059

3a. Address
P.O. Box 27757
Houston, TX 77227-7757

3b. Phone No. *(include area code)*
(970) 263-3637

10. Field and Pool or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Section 3, Township 25 South, Range 1 West, SLB&M
At surface: 2330' FNL, 2233' FEL, being in SW4NE4 At prod. zone: 1155' FNL, 2225' FEL, being in NW4NE4

11. Country or Parish, State
Sevier, UT (041)

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other As-built surface location
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. is providing the as-built survey plat and surface location layout for the Burrville Federal 3-1 well during drilling operations.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
DEC 22 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Daniel I. Padilla

Title Regulatory Coordinator

Signature Daniel I. Padilla

Date 12/17/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

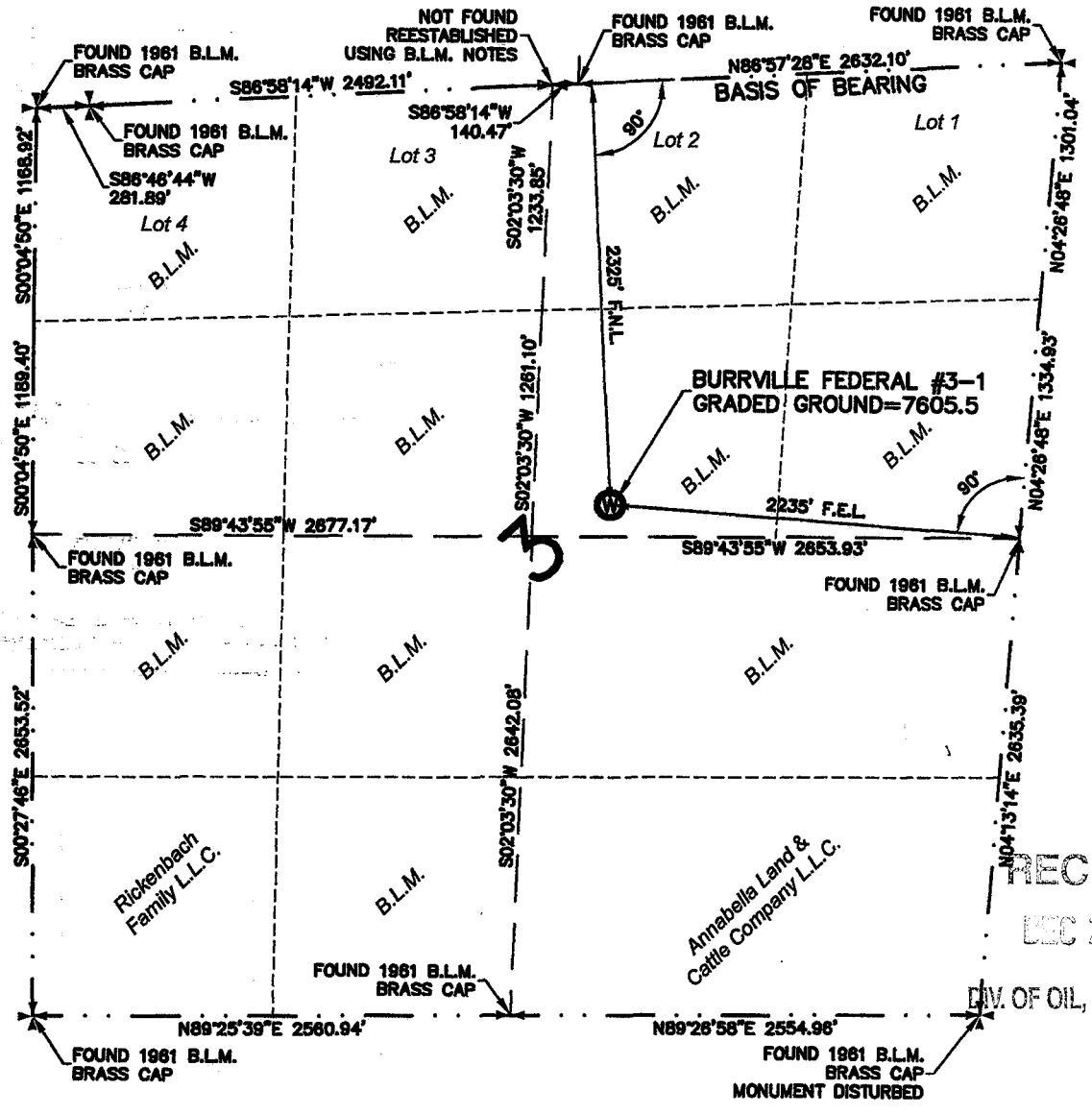
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Section 3, T.25 S., R.1 W., S.L.B. & M.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N86°57'28"E BETWEEN THE NORTH QUARTER CORNER AND THE NORTHEAST CORNER OF SECTION 3, T.25 S., R.1 W., S.L.B. & M.

WELL COORDINATES:

LATITUDE = 38°39'55.1559" (38.665321083) NAD 83 – UTM ZONE 12N NAD27 N 14041351.437

LONGITUDE = -111°53'39.0223" (-111.894172861) NAD 83 – UTM ZONE 12N NAD27 E 1385401.720

PROJECT

Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATED AS SHOWN IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

LEGEND

= SECTION CORNERS LOCATED

= QUARTER SECTION CORNERS LOCATED

= WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE BURRVILLE FEDERAL #3-1 LOCATED IN THE S.W. 1/4 OF THE N.E. 1/4 OF SECTION 3, T.25 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88

1000' 500' 0' 1000'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR TREVOR ROY GADD No. 343639 STATE OF UTAH

TREVOR R. GADD, L.S. #343639 — 12/12/08 DATE

RECEIVED
DEC 22 2008
DIV. OF OIL, GAS & MINING

Jones & DeMille Engineering
1535 South 100 West – Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
www.jonesanddemille.com

Well Location Plat for

Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
–	W.H.H.	T.R.G.	T.W.G.	0702-166	1
DATE		DWG.NAME	SCALE		
07/08/08		NEWBURR...	1"=1000'		

OXY USA, Inc.

LOCATION LAYOUT FOR

BURRVILLE FEDERAL 3-1

SECTION 3, T.25 S., R.1 W., S.L.B.& M.

SURFACE DRAINAGE DITCH

SPOIL AREA

DRAINAGE BYPASS DITCH

EXIST. RESERVE PIT

FLARE PIT

EXIST. FENCE

BURRVILLE FEDERAL 3-1 WELL
(ADJACENT FINISHED GROUND ELEV. 7605.5)

213.83'

247.83'

144.71'

50.00'

BOILER HOUSE

SCR HOUSE

CABLE TRAY

GRADE HOPPER

500 HOUSE

DIESEL FUEL

FUEL LINES

GEN SETS

POT

TRAILER

GREY

40 L.F. 24"ø CMP

ACCESS ROAD

RECEIVED
DEC 22 2008
DIV. OF OIL, GAS & MINING

CONTRACT RECORD DRAWING
DATE: 12/2008

NO.	DATE	REMARKS
		ORIGINAL SUBMISSION FOR AUTHORIZATION

REVISIONS

SCALE: 1"=60'

DWG NAME: 3D_CRD

SHT SET: ####

DWG CREATED: 12/11/2008

PEN TBL: standard2800.ctb

LAST UPDATE: 12/11/2008

Jones & DeMille Engineering, Inc.
1535 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-8268
www.jonesanddemille.com

	CHECK:	DATE:	BY:
REVIEW	.	.	.
DESIGN:	.	CHECK:	.
DRAWN:	LG 12-08	CHECK:	.
QUANT:	.	CHECK:	.

APPROVAL RECOMM.: PROJECT DESIGN ENGINEER — DATE

APPROVED: DATE

OXY USA, Inc.

BURRVILLE FEDERAL 3-1

SITE AS CONSTRUCTED

PROJECT NUMBER: 0808-034

SEVIER
COUNTY

SHEET NO. 1

T 25S R 01W S-03 4304130059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Event:	EXPL DRILLING			**Date:**	01/26/2009
Prim. Reason:	ORIG DRILL DIR			**Report No:**	28

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	0.00
Today's MD:	1,135.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	1,135.0 ft	**Rot Hrs Today:**	0.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	@			**Lithology:**			
Current Ops:	PICKING UP BHA						
24-Hr Summary:	PICK UP BHA, PRE- SPUD MEETING, INSTALL SCREEN SUB, PICK UP BHA, TEST TOOLS, PICK UP BHA						
24-Hr Forecast:	CONTINUE TO PICK UP BHA, DRILL CEMENT, & SPUD BURRVILLE FED. 3-1						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,100ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	9.625in @ 3,000ft	**Str Wt Rot:**		**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	0
Contractor Personnel:	23
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
1,135.0	0.55	166.08	1,134.99	-2.1	0.2	-2.1	0.00	0.00
1,131.0	0.55	166.08	1,130.99	-2.1	0.2	-2.1	0.19	0.19
1,035.0	0.37	163.42	1,034.99	-1.3	0.0	-1.3	0.17	-0.04
935.0	0.41	138.56	935.00	-0.7	-0.3	-0.7	0.18	0.13
835.0	0.28	117.05	835.00	-0.4	-0.8	-0.4	0.19	0.19
735.0	0.09	107.11	735.00	-0.2	-1.1	-0.2	0.05	0.05

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	JERRY TODD / GRAHAM FLA	**MBT:**	17.5 lbm/bbl
Sample From:	IN	**pH:**	8.8
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:30 / 1,135.0	**Pf / Mf:**	0.1 / 0.4
Density @ Temp:	8.55 / 46	**Chlorides:**	500
Rheology Temp:	46	**Ca+ / K+:**	/
Viscosity:	48.00	**CaCl2:**	
PV / YP:	10 / 13	**Clom:**	
Gels 10s/10m/30m:	3 / 8 / 11	**Lime:**	
API WL:	14.60	**ES:**	
HTHP WL:		**ECD:**	8.55
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	1.60 / 1.60	**Carbonate:**	
Oil / Water:	0.0 / 98.4	**Bicarbonate:**	
Sand:	0.00	**Form Loss:**	0.0 / 0.0
Water Added:		**Fluid Disch:**	/ 0.00
Oil Added:			
LGS:	1.60 / 14.50		

VG Meter: 3@3 / 6@6 / 9@100 / 15@200 / 23@300 / 33@600

Comments: CONTINUED PICKING UP B.H.A. CONTINUED CONDITIONING MUD TO DRILL OUT.

LAST OR CURRENT BHA

BHA No:	1	Bit No:	1	MD In:	1,135.0 ft
Purpose:				MD Out:	2,895.0 ft

Component	OD	ID	Jts	Length
PDC BIT	17.500		1	1.50
RSS (PUSH BIT)	17.500	3.000	1	14.04
STRING STABILIZER	17.375	2.750	1	8.06
FLOAT SUB	8.000	3.000	1	3.08
CROSSOVER	9.500	3.000	1	2.95
ROTARY STEERABLE MOTOR	9.625	3.000	1	30.57
MWD TOOL	8.000	2.750	1	29.71
NON-MAG DRILL COLLAR	8.000	2.750	1	27.89
STRING STABILIZER	8.250	2.750	1	7.63
CROSSOVER	8.000	3.000	1	3.52
DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
DRILL COLLAR	7.875	2.750	9	265.37

Total Length: 1,285.10 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL	100 LBS/SK	70.00
PALLETS	EA.	14.00
SHRINK WRAP	EA.	14.00
TAX	EACH	1.00

RECEIVED

FEB 02 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR

BURRVILLE FEDERAL 3-1
USA

Date: 01/26/2009
Report No: 28

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	8:00	8.00	06PRES	TRIP	BHA	P	P/U BHA
8:00	12:00	4.00	06PRES	SAFE	PJSM	P	HELD PRE-SPUD MEETING WITH ALL PERSONAL.
12:00	14:00	2.00	06PRES	TRIP	BHA	P	SET STAND 9" DC'S IN DERRICK, BREAK DOWN LOWER BHA INSTALL SCREEN SUB.
14:00	17:30	3.50	06PRES	TRIP	BHA	P	P/U BHA
17:30	18:00	0.50	06PRES	TRIP	BHA	P	TEST DIRECTIONAL TOOLS, BLOW KELLY.
18:00	0:00	6.00	06PRES	TRIP	BHA	P	CONTINUE TO P/U BHA
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	110.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	110.00	COLD / SNOWING

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: DIESEL USED = 1272 GALS. DIESEL ON HAND = 11,224 GALS. DIESEL RECEIVED = 0 GALS.

NO ACCIDENTS & NO INCIDENTS

DAY CREW FULL
NIGHT CREW FULL

T25S R01W S-03 43-041 30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Event:	EXPL DRILLING	**Date:**	01/27/2009
Prim. Reason:	ORIG DRILL DIR	**Report No:**	29

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	0.66
Today's MD:	1,715.0 ft	**Progress:**	580.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	1,135.0 ft	**Rot Hrs Today:**	14.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	40.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:** volcanic: latite, it gy-red brn, aphan, vf, xln, qtz, pyroxene, calc, hd

Current Ops: DIRECTIONAL DRILL 17 1/2" HOLE

24-Hr Summary: P/U BHA, S & C DRILL LINE, CIRC. & DOWN LINK TOOLS, DIRECTIONAL DRILL 17 1/2" HOLE FROM 1135' TO 1715'

24-Hr Forecast: DIRECTIONAL DRILL 17 1/2" HOLE

CASING/WELL CONTROL

Last Casing:	20.000in @ 1,100ft
Next Casing:	9.625in @ 3,000ft
Last BOP Press Test:	12/18/2009
Form Test/EMW:	LOT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	190.0/ 200.0 kip
Str Wt Rot:	195.0 kip
Torq Off Btm:	3.0 ft-lbf
Torq On Btm:	3.0 ft-lbf

HYDRAULICS

Pump Rate:	854.0
Pump Press:	2,528.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	0
Contractor Personnel:	23
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
1,685.0	0.06	110.08	1,684.53	-17.8	-4.5	-17.7	0.13	-0.03
1,590.0	0.09	357.40	1,589.53	-17.8	-4.6	-17.8	0.28	-0.09
1,494.0	0.18	178.54	1,493.53	-17.8	-4.6	-17.7	2.96	-2.95
1,399.0	2.98	201.63	1,398.57	-15.3	-3.6	-15.3	1.74	-1.73
1,303.0	4.64	198.20	1,302.79	-9.3	-1.5	-9.3	2.56	2.53
1,210.0	2.29	191.13	1,209.96	-3.9	0.0	-3.9	2.41	2.32

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	14.50	14.50	584.0	584.0	40.3	40.3	15.0/30.0	25/35	1.052	523.5	259.3	1.1

MUD DATA - NEWPARK-AVA

Engineer:	JERRY TODD / GRAHAM FLA	**MBT:**	20.0 lbm/bbl
Sample From:	OUT	**pH:**	8.8
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:30 / 1,715.0	**Pf / Mf:**	0.2 / 0.4
Density @ Temp:	8.85 / 76	**Chlorides:**	500
Rheology Temp:	76	**Ca+ / K+:**	/
Viscosity:	57.00	**CaCl2:**	
PV / YP:	18 / 19	**Clom:**	
Gels 10s/10m/30m:	7 / 18 / 23	**Lime:**	
API WL:	14.20	**ES:**	
HTHP WL:		**ECD:**	8.91
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	3.80 / 3.80	**Carbonate:**	
Oil / Water:	0.0 / 96.2	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	32.0 / 32.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.80 / 34.00		

VG Meter: 7@3 / 11@6 / 19@100 / 29@200 / 37@300 / 56@600

Comments: DRILLED FROM 1135 TO 1707 WITH NO PROBLEMS. INCREASED YP WITH NEWGEL AND NEWGEL HY. INCREASED PH WITH CAUSTIC SODA. PUMPING HIGH VIS. SWEEPS CONTAINING

LAST OR CURRENT BHA

BHA No: 1 **Bit No:** 1 **MD In:** 1,135.0 ft

Purpose: **MD Out:** 2,895.0 ft

Component	OD	ID	Jts	Length
PDC BIT	17.500		1	1.50
RSS (PUSH BIT)	17.500	3.000	1	14.04
STRING STABILIZER	17.375	2.750	1	8.06
FLOAT SUB	8.000	3.000	1	3.08
CROSSOVER	9.500	3.000	1	2.95
ROTARY STEERABLE MOTOR	9.625	3.000	1	30.57
MWD TOOL	8.000	2.750	1	29.71
NON-MAG DRILL COLLAR	8.000	2.750	1	27.89
STRING STABILIZER	8.250	2.750	1	7.63
CROSSOVER	8.000	3.000	1	3.52
DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
DRILL COLLAR	7.875	2.750	9	265.37

Total Length: 1,285.10 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL	100 LBS/SK	70.00
NEW GEL HY	50 LBS/SK	140.00
TAX	EACH	1.00

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FEB 02 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR

BURRVILLE FEDERAL 3-1
USA

Date: 01/27/2009
Report No: 29

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	06PRES	TRIP	BHA	P	PICK UP BHA
2:30	5:00	2.50	06PRES	RIGMT	SRVRIG	P	SLIP & CUT DRILL LINE
5:00	6:00	1.00	14SUDR	CIRC	CNDHOL	P	CIRCULATE
6:00	6:30	0.50	14SUDR	OTHR	OTHER	P	CIRCULATE AND DOWN LINK TOOLS
6:30	8:00	1.50	14SUDR	OTHR	OTHER	PT	TROUBLE SHOOTING PASON EQUIPMENT FOR HOOK LOAD, PUMP PRESSURE, THAW OUT PUMP GAUGE ON RIG FLOOR.
8:00	10:30	2.50	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17.50" FROM 1135' TO 1314', 6-8 WOB, 2000 PSI, 204 SPM, 854 GPM, 0 TORQUE, 125 DOWN HOLE RPM , ROP 19 FPH
10:30	12:00	1.50	14SUDR	OTHR	OTHER	PT	TROUBLE SHOOTING DIRECTIONAL TOOLS, DOWN LINKING TOOLS
12:00	0:00	12.00	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17.50" FROM 1314' TO 1715', 15-25 WOB, 204 SPM, 850 GPM, 2550 PSI. 2.0 TORQUE, 135 DOWN HOLE RPM, ROP 21 FPH
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	111.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	111.00	CLEAR & COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: DIESEL USED = 3392 GALS. DIESEL ON HAND = 11,872 GALS. DIESEL RECEIVED = 4305 GALS.

NO ACCIDENTS & NO INCIDENTS

DAY CREW FULL
NIGHT CREW FULL

T 25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Event:	EXPL DRILLING					**Date:**	01/28/2009
Prim. Reason:	ORIG DRILL DIR					**Report No:**	30
Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	1.66
Today's MD:	2,078.0 ft	**Progress:**	363.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	1,715.0 ft	**Rot Hrs Today:**	22.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	16.1 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	@			**Lithology:**	volcanic: latite, it gy-red brn, aphan, vf, xln, qtz, pyroxene, calc, hd		
Current Ops:	DIRECTIONAL DRILL 17 1/2" HOLE						
24-Hr Summary:	DIRECTIONAL DRILL 171/2" HOLE F/1715' TO 2078', SERVICE RIG, INSTALL ROTATING HEAD						
24-Hr Forecast:	DIRECTIONAL DRILL 17 1/2" HOLE TO SURFACE TD @ 3000'						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	**Str Wt Up/Dn:**	205.0/ 200.0 kip	**Pump Rate:**	854.0	**Conn:**		
Next Casing:	13.375in @ 3,000ft	**Str Wt Rot:**	209.0 kip	**Pump Press:**	2,550.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**	0.0 ft-lbf			**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**	4.0 ft-lbf					

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	24
Total on Site:	25

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,065.0	0.06	97.91	2,064.53	-18.3	-4.5	-18.2	0.13	0.00
1,970.0	0.06	266.10	1,969.53	-18.3	-4.5	-18.2	0.29	-0.21
1,875.0	0.26	165.36	1,874.53	-18.0	-4.5	-18.0	0.28	0.21
1,779.0	0.06	257.87	1,778.53	-17.8	-4.5	-17.7	0.12	0.00
1,685.0	0.06	110.08	1,684.53	-17.8	-4.5	-17.7	0.13	-0.03
1,590.0	0.09	357.40	1,589.53	-17.8	-4.6	-17.8	0.28	-0.09

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	22.50	37.00	363.0	947.0	16.1	25.6	26.0/35.0	20/30	1.052	529.6	259.3	1.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JERRY TO	**MBT:**	20.0 lbm/bbl
Sample From:	IN	**pH:**	9.5
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	11:30 / 2,078.0	**Pf / Mf:**	0.3 / 0.6
Density @ Temp:	8.80 / 96	**Chlorides:**	2,300
Rheology Temp:	96	**Ca+ / K+:**	/
Viscosity:	51.00	**CaCl2:**	
PV / YP:	13 / 12	**Clom:**	
Gels 10s/10m/30m:	4 / 9 / 18	**Lime:**	
API WL:	15.20	**ES:**	
HTHP WL:		**ECD:**	8.83
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	3.30 / 3.30	**Carbonate:**	
Oil / Water:	0.0 / 96.7	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	72.0 / 104.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.30 / 29.90		

VG Meter: 4@3 / 5@6 / 13@100 / 19@200 / 25@300 / 38@600

Comments: DRILLED FROM 1712 TO 2079" WITH NO HOLE PROBLEMS. HIT FORMATION SOMEWHERE BETWEEN 1980" AND 1990". ACCORDING TO ALL MUD TESTS, APPEARED TO BE

LAST OR CURRENT BHA

BHA No:	1	**Bit No:**	1	**MD In:**	1,135.0 ft
Purpose:				**MD Out:**	2,895.0 ft

Component	OD	ID	Jts	Length
PDC BIT	17.500		1	1.50
RSS (PUSH BIT)	17.500	3.000	1	14.04
STRING STABILIZER	17.375	2.750	1	8.06
FLOAT SUB	8.000	3.000	1	3.08
CROSSOVER	9.500	3.000	1	2.95
ROTARY STEERABLE MOTOR	9.625	3.000	1	30.57
MWD TOOL	8.000	2.750	1	29.71
NON-MAG DRILL COLLAR	8.000	2.750	1	27.89
STRING STABILIZER	8.250	2.750	1	7.63
CROSSOVER	8.000	3.000	1	3.52
DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
DRILL COLLAR	7.875	2.750	9	265.37

Total Length: 1,285.10 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
DRILLTHIN	25 LB/SX	2.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL HY	50 LBS/SK	74.00
PALLETS	EA.	45.00
SHRINK WRAP	EA.	44.00
SODA ASH	50 LBS/SK	10.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

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FEB 02 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 01/28/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 30

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	12:30	12.50	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 1715' TO 1950' WOB 15 - 25, 204 SPM, 850 GPM, 2550 PSI, 130 DOWN HOLE RPM, 3.0 TORQUE, ROP 20 FPH.
12:30	13:00	0.50	14SUDR	RIGMT	SRVRIG	P	SERVICE RIG
13:00	16:00	3.00	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 1950' TO 1994' WOB 26 - 32, 203 SPM, 850 GPM, 2540 PSI, 130 DOWN RPM, 4.0 TORQUE, 14.6 FPH.
16:00	17:00	1.00	14SUDR	RIGMT	SRVRIG	P	INSTALL ROTATING HEAD
17:00	0:00	7.00	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 1994' TO 2078' WOB 30 - 35, 204 SPM, 850 GPM, 2550 PSI, 130 DOWN HOLE RPM, 4.0 TORQUE, 12 FPH.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	112.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	112.00	CLEAR / COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL USED = 3604 GALS. RIG FUEL ON HAND = 8268 GALS.

NO ACCIDENTS OR INCIDENTS

BOTH CREWS FULL

T25S R01W S-03 43 041 30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Event:	EXPL DRILLING					**Date:**	01/29/2009
Prim. Reason:	ORIG DRILL DIR					**Report No:**	31
Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	2.66
Today's MD:	2,475.0 ft	**Progress:**	397.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,078.0 ft	**Rot Hrs Today:**	23.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	17.3 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:** BRN GRY, RED BRN, FXL, QTZ, PYROXENE, TRNSL, HD,SL,CALC.

Current Ops: DIRECTIONAL DRILL 17 1/2" FROM 2078' TO 2475'

24-Hr Summary: DIRECTIONAL DRILL 17 1/2" HOLE FROM 2078' TO 2475', SERVICE RIG

24-Hr Forecast: DIRECTIONAL DRILL 17 1/2" HOLE TO SURFACE TD @ 3000'

CASING/WELL CONTROL

Last Casing:	20.000in @ 1,135ft
Next Casing:	13.375in @ 3,000ft
Last BOP Press Test:	12/18/2009
Form Test/EMW:	LOT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	208.0/ 215.0 kip
Str Wt Rot:	215.0 kip
Torq Off Btm:	3.0 ft-lbf
Torq On Btm:	5.0 ft-lbf

HYDRAULICS

Pump Rate:	879.1
Pump Press:	2,550.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	24
Total on Site:	25

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29
2,161.0	0.04	351.30	2,160.53	-18.2	-4.5	-18.2	0.08	-0.02
2,065.0	0.06	97.91	2,064.53	-18.3	-4.5	-18.2	0.13	0.00
1,970.0	0.06	266.10	1,969.53	-18.3	-4.5	-18.2	0.29	-0.21

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	23.00	60.00	397.0	1,344.0	17.3	22.4	25.0/36.0	20/30	1.052	579.3	269.7	1.2

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JERRY TO	**MBT:**	20.0 lbm/bbl
Sample From:	OUT	**pH:**	8.8
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	11:59 / 2,475.0	**Pf / Mf:**	0.1 / 0.2
Density @ Temp:	8.90 / 99	**Chlorides:**	2,500
Rheology Temp:	99	**Ca+ / K+:**	/
Viscosity:	53.00	**CaCl2:**	
PV / YP:	13 / 15	**Clom:**	
Gels 10s/10m/30m:	15 / 17 / 20	**Lime:**	
API WL:	15.20	**ES:**	
HTHP WL:		**ECD:**	8.90
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	4.10 / 4.10	**Carbonate:**	
Oil / Water:	0.0 / 95.9	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	16.0 / 120.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.19		

VG Meter: 9@3 / 10@6 / 16@100 / 20@200 / 28@300 / 43@600

Comments: DRILLED FROM 2079 TO 2475 WITH NO HOLE PROBLEMS, PUMPING HIGH VIS. SWEEPS EVERY 200-300 FEET TO CHECK HOLE CLEANING. SWEEPS ARE NOT BRINGING BACK ANY

LAST OR CURRENT BHA

BHA No: 1 **Bit No:** 1 **MD In:** 1,135.0 ft

Purpose: **MD Out:** 2,895.0 ft

Component	OD	ID	Jts	Length
PDC BIT	17.500		1	1.50
RSS (PUSH BIT)	17.500	3.000	1	14.04
STRING STABILIZER	17.375	2.750	1	8.06
FLOAT SUB	8.000	3.000	1	3.08
CROSSOVER	9.500	3.000	1	2.95
ROTARY STEERABLE MOTOR	9.625	3.000	1	30.57
MWD TOOL	8.000	2.750	1	29.71
NON-MAG DRILL COLLAR	8.000	2.750	1	27.89
STRING STABILIZER	8.250	2.750	1	7.63
CROSSOVER	8.000	3.000	1	3.52
DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
DRILL COLLAR	7.875	2.750	9	265.37

Total Length: 1,285.10 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
DYNAFIBER M	25 LB/SX	14.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL HY	50 LBS/SK	88.00
TAX	EACH	1.00

RECEIVED
FEB 02 2009
DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR

BURRVILLE FEDERAL 3-1
USA

Date: 01/29/2009
Report No: 31

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	17:00	17.00	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 2078' TO 2331' WOB 26 - 35, 209 SPM, 880 GPM, 2620 PSI, P/U 197, S/O 203, ROT 203, DOWN HOLE RPM 140, TORQUE 4-5
17:00	17:30	0.50	14SUDR	RIGMT	SRVRIG	P	SERVICE RIG
17:30	0:00	6.50	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" FROM FROM 2331' TO 2475' WOB 34 - 36, 210 SPM, 880 GPM, 2800 PSI, P/U 216, S/O 213, ROT 215, DOWN HOLE RPM 140, TORQUE 4-6
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	113.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	113.00	CLEAR / COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 13,144 GALS. RIG FUEL USED = 3604 GALS. RECEIVED 8000 GALS. OF RIG FUEL

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T 25S R 01W S-03 43 041 30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Event:	EXPL DRILLING			**Date:**	01/30/2009
Prim. Reason:	ORIG DRILL DIR			**Report No:**	32

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	3.66
Today's MD:	2,895.0 ft	**Progress:**	420.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,475.0 ft	**Rot Hrs Today:**	15.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	28.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:** wh, it omg, abnt wh cly, w/biot, pyroxene qtz, vf xl, v sft

Current Ops: CIRCULATE

24-Hr Summary: DIRECTIONAL DRILL 17 1/2" HOLE F/2475' TO 2895', R/S, MOTOR PROBLEM, POOH

24-Hr Forecast: POOH & LAY DOWN DIRECTIONAL TOOLS, M/U SLICK ASSEMBLY FOR CLEAN OUT RUN & TIH

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	**Str Wt Up/Dn:**	219.0/ 219.0 kip	**Pump Rate:**	879.1	**Conn:**		
Next Casing:	13.375in @ 3,000ft	**Str Wt Rot:**	219.0 kip	**Pump Press:**	2,750.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**	4.0 ft-lbf			**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**	6.0 ft-lbf					

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	22
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	15.00	75.00	420.0	1,764.0	28.0	23.5	30.0/36.0	20/30	1.052	574.1	268.5	1.2

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JERRY TO	**MBT:**	20.0 lbm/bbl
Sample From:	PIT	**pH:**	9.5
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:30 / 2,895.0	**Pf / Mf:**	0.3 / 0.5
Density @ Temp:	8.90 / 101	**Chlorides:**	2,600
Rheology Temp:	101	**Ca+ / K+:**	/
Viscosity:	48.00	**CaCl2:**	
PV / YP:	13 / 16	**Clom:**	
Gels 10s/10m/30m:	14 / 22 / 27	**Lime:**	
API WL:	14.50	**ES:**	
HTHP WL:		**ECD:**	8.95
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	4.10 / 4.10	**Carbonate:**	
Oil / Water:	0.0 / 95.9	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	24.0 / 144.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.19		

VG Meter: 8@3 / 11@6 / 19@100 / 24@200 / 29@300 / 42@600

Comments: DRILLED TO 2895 WITH NO HOLE PROBLEMS. SAW SPIKE IN PUMP PRESSURE. CIRCULATED AT REDUCED PUMP RATE (500GPM) WHILE DIAGNOSING PROBLEMS. CIRCULATED FOR TWO

LAST OR CURRENT BHA

BHA No: 1 **Bit No:** 1 **MD In:** 1,135.0 ft

Purpose: **MD Out:** 2,895.0 ft

Component	OD	ID	Jts	Length
PDC BIT	17.500		1	1.50
RSS (PUSH BIT)	17.500	3.000	1	14.04
STRING STABILIZER	17.375	2.750	1	8.06
FLOAT SUB	8.000	3.000	1	3.08
CROSSOVER	9.500	3.000	1	2.95
ROTARY STEERABLE MOTOR	9.625	3.000	1	30.57
MWD TOOL	8.000	2.750	1	29.71
NON-MAG DRILL COLLAR	8.000	2.750	1	27.89
STRING STABILIZER	8.250	2.750	1	7.63
CROSSOVER	8.000	3.000	1	3.52
DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
DRILL COLLAR	7.875	2.750	9	265.37

Total Length: 1,285.10 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
AQUABLOC	50 LB/SX	5.00
CAUSTIC SODA	50 LB/SX	7.00
DRILLTHIN	25 LB/SX	4.00
DYNAFIBER M	25 LB/SX	21.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	50.00
NEW GEL HY	50 LBS/SK	46.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 01/30/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 32

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	9:30	9.50	14SUDR	**DRILL**	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 2475' TO 2708', WOB 30 - 36, 209 SPM, 880 GPM, 2770 PSI, P/U 215, S/O 215, ROT 215, DOWN HOLE RPM 135, TORQUE 5 - 7
9:30	10:00	0.50	14SUDR	RIGMT	SRVRIG	P	SERVICE RIG
10:00	21:30	11.50	14SUDR	DRILL	RSS	P	DIRECTIONAL DRILL 17 1/2" HOLE FROM 2708' TO 2895' WOB 30 - 36, 210 SPM, 880 GPM, 2725 PSI, P/U 219, S/O 219, ROT 219, DOWN HOLE RPM 140, TORQUE 5-7
21:30	0:00	2.50	14SUDR	CIRC	CNDHOL	P	CHECK MWD FOR LOCK UP , STRING PRESSURING UP, CIRCULATE FOR TRIP
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	114.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	114.00	CLEAR / COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 9752 GALS. RIG FUEL USED = 3392 GALS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T25S R01W S-03 43 041 30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	01/31/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	33

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	4.66
Today's MD:	2,895.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,895.0 ft	**Rot Hrs Today:**	0.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:**

Current Ops: POOH FOR LOGS

24-Hr Summary: WORK THRU TIGHT SPOTS, L/D DIR. TLS. M/U CLEAN OUT BHA, TIH,CIRC. POOH

24-Hr Forecast: L/D 9" DC'S, R/U BAKER/ALTAS & LOG SURFACE SECTION, R/D RISER, R/U CASERS & RUN 13 3/8" CASING

CASING/WELL CONTROL

Last Casing:	20.000in @ 1,135ft
Next Casing:	13.375in @ 3,000ft
Last BOP Press Test:	12/18/2009
Form Test/EMW:	LOT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	200.0/ 190.0 kip
Str Wt Rot:	190.0 kip
Torq Off Btm:	
Torq On Btm:	

HYDRAULICS

Pump Rate:	879.1
Pump Press:	2,250.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	22
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	17.500	BAKER HUGHES INTE	GTX C-20	6068047		3x20	2,895.0	2,895.0	1-0-BT-M	E-I-WT-LOG
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
2	0.00	0.00	0.0	0.0	0.0	0.0	0.0/0.0	0/0	0.920	544.3	261.4	1.0

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JERRY TO	**MBT:**	20.0 lbm/bbl
Sample From:	PIT	**pH:**	9.1
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	11:30 / 2,895.0	**Pf / Mf:**	0.2 / 0.4
Density @ Temp:	8.90 / 97	**Chlorides:**	2,600
Rheology Temp:	97	**Ca+ / K+:**	/
Viscosity:	54.00	**CaCl2:**	
PV / YP:	15 / 15	**Clom:**	
Gels 10s/10m/30m:	16 / 21 / 24	**Lime:**	
API WL:	14.80	**ES:**	
HTHP WL:		**ECD:**	8.95
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	4.10 / 4.10	**Carbonate:**	
Oil / Water:	0.0 / 95.9	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	12.0 / 156.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.00		

VG Meter: 7@3 / 9@6 / 18@100 / 24@200 / 30@300 / 45@600

Comments: PUMPED SLUG AND BEGAN T.O.O.H. PULLED TIGHT AND BACKREAMED FROM 2040 TO 1666. CONTINUED T.O.O.H. WITH NO FURTHER PROBLEMS. LAYED DOWN 9" TOOLS AND STABILIZERS

LAST OR CURRENT BHA

BHA No: 2 **Bit No:** 2 **MD In:** 2,895.0 ft

Purpose: **MD Out:** 2,895.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	17.500	3.000	1	1.50
BIT SUB	9.812	2.875	1	1.98
FLOAT SUB	8.000	3.438	1	3.69
CROSSOVER	8.000	3.000	1	3.52
SPIRAL DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
SPIRAL DRILL COLLAR	7.875	2.813	9	265.37
CROSSOVER	6.875	2.875	1	3.00
CROSSOVER	6.000	2.875	1	2.52
HWDP	5.000	3.000	24	735.92

Total Length: 1,139.46 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	30.00
NEW PHPA	5 GAL	6.00
PALLETS	EA.	53.00
SHRINK WRAP	EA.	53.00
TAX	EACH	1.00

RECEIVED

FEB 02 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 01/31/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 33

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	8:00	8.00	14SUDR	TRIP	DRILL	P	POOH & WORK THROUGH TIGHTS SPOTS @ 2028', 1903', 1809' & 1700'
8:00	11:30	3.50	14SUDR	TRIP	BHA	P	L/D (BHA #1) POWER V-VORTEX AND DIRECTIONAL TOOLS.
11:30	15:00	3.50	14SUDR	TRIP	BHA	P	P/U (BHA #2)TRI-CONE BIT, BIT AND FLOAT SUB. L/D DRILLING JARS DAMAGED WIPER SEAL.
15:00	15:30	0.50	14SUDR	RIGMT	SRVRIG	P	SERVICE RIG. MAKE UP KELLY & VIBRATING HOSES.
15:30	17:00	1.50	14SUDR	TRIP	WIPER	P	BREAK CIRCULATION @ 1100'. TRIP IN HOLE.
17:00	17:30	0.50	14SUDR	SRFEQ	RIGUP	P	INSTALL ROTATING HEAD RUBBER
17:30	19:00	1.50	14SUDR	TRIP	WIPER	P	TRIP IN HOLE.
19:00	21:30	2.50	14SUDR	CIRC	CNDHOL	P	CIRCULATE & CONDITION HOLE
21:30	0:00	2.50	14SUDR	TRIP	DRILL	P	POOH TO RUN LOGS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	115.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	115.00	CLEAR / COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 10,812 GALS. RIG FUEL USED = 2,544GALS. RECEIVED 4400 GALS. RIG FUEL

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

DAILY OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Event:	EXPL DRILLING			**Date:**	02/01/2009
Prim. Reason:	ORIG DRILL DIR			**Report No:**	34

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	5.66
Today's MD:	2,895.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,895.0 ft	**Rot Hrs Today:**	0.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	VOLCANICS@.0			**Lithology:**			
Current Ops:	S/M W/CASERS & R/U CASING EQUIPMENT & TOOLS						
24-Hr Summary:	L/D 9" DC'S, R/U LOGGERS, TOOL FAILURE TWICE R/D LOGGERS, R/U TO RUN CASING						
24-Hr Forecast:	R/U & RUN 13 3/8" CSG, CIRC, R/U CEMENTERS & CEMENT CSG, WOC						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	13.375in @ 3,000ft	**Str Wt Rot:**		**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	35
Total on Site:	36

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	17.500	BAKER HUGHES INTE	GTX C-20	6068047		3x20	2,895.0	2,895.0	1-0-BT-M	E-I-WT-LOG
1	17.500	SECURITY DBS	FS2653Z	11065632	S123	6x12, 3x13	1,135.0	2,895.0	3-2-CT-N	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JERRY TO	**MBT:**	17.5 lbm/bbl
Sample From:	PIT	**pH:**	8.9
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:30 / 2,895.0	**Pf / Mf:**	0.1 / 0.3
Density @ Temp:	8.90 / 92	**Chlorides:**	2,600
Rheology Temp:	92	**Ca+ / K+:**	/
Viscosity:	48.00	**CaCl2:**	
PV / YP:	13 / 15	**Clom:**	
Gels 10s/10m/30m:	13 / 22 / 27	**Lime:**	
API WL:	14.60	**ES:**	
HTHP WL:		**ECD:**	8.90
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	4.10 / 4.10	**Carbonate:**	
Oil / Water:	0.0 / 95.9	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	0.0 / 156.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.00		

VG Meter: 6@3 / 8@6 / 18@100 / 23@200 / 28@300 / 41@600

Comments: RIGGED UP LOGGERS. HAD PROBLEMS WITH LOGGING TOOLS. INCOMPLETE LOG SET WENT TO BOTTOM WITH NO PROBLEMS. RIGGED UP CASERS AND BEGAN RUNNING 13.375"

LAST OR CURRENT BHA

BHA No:	2	**Bit No:**	2	**MD In:**	2,895.0 ft
Purpose:				**MD Out:**	2,895.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	17.500	3.000	1	1.50
BIT SUB	9.812	2.875	1	1.98
FLOAT SUB	8.000	3.438	1	3.69
CROSSOVER	8.000	3.000	1	3.52
SPIRAL DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
SPIRAL DRILL COLLAR	7.875	2.813	9	265.37
CROSSOVER	6.875	2.875	1	3.00
CROSSOVER	6.000	2.875	1	2.52
HWDP	5.000	3.000	24	735.92

Total Length: 1,139.46 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
AQUABLOC	50 LB/SX	4.00
DYNAFIBER M	25 LB/SX	15.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	17.00
NEW BAR	100 LB/SX	22.00
NEW GEL HY	50 LBS/SK	98.00
SODA ASH	50 LBS/SK	6.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/01/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 34

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	14SUDR	TRIP	BHA	P	L/D 4 9" DC'S & 17 1/2" BIT & SUBS
2:30	7:00	4.50	14SUDR	LOG	RIGUP	P	S/M W/LOGGERS & R/U LOGGERS.
7:00	11:30	4.50	14SUDR	LOG	OHLOG	PT	BAKER ATLAS TESTED TOOLS IN YARD PUT TOOLS TOGETHER IN THE WRONG CONFIGURATION. TROUBLE SHOOT SAME, DAMAGED PINS FOR THE ELECTRONICS ON THE MAC 5 TOOL. HOT SHOT TOOLS.
11:30	16:00	4.50	14SUDR	LOG	OHLOG	P	LOGGING RUN #1 DUAL LATERAL, SPECTRA LOG. LOGGERS TD 2895'
16:00	18:00	2.00	14SUDR	LOG	OHLOG	PT	W/O LOGGING TOOLS
18:00	19:30	1.50	14SUDR	LOG	OHLOG	PT	M/U LOGGING TOOLS, SAME PROBLEM DAMAGED PINS FOR THE ELECTRONICS, TOOL FAILURE
19:30	21:00	1.50	14SUDR	LOG	OHLOG	P	RIG DOWN LOGGERS
21:00	23:00	2.00	14SURC	CSG	RIGUP	P	R/D FLOW LINE & RISER PIPE, TAKE OFF BAILS & ELEVATORS & INSTALL 18' BAILS & 13 3/8" CASING ELEVATORS.
23:00	0:00	1.00	14SURC	CSG	RIGUP	P	S/M W/CASERS & R/U CASING EQUIPMENT & TOOLS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	116.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	116.00	CLEAR / COLD

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 9964 GALS. RIG FUEL USED = 1060 GALS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/02/2009

Report No: 35

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	6.66
Today's MD:	2,895.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	2,895.0 ft	Rot Hrs Today:	0.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	VOLCANICS@.0			Lithology:			
Current Ops:	BUMP PLUG TO 1650 PSI						
24-Hr Summary:	BUILD SHOE TRACK & RUN 13 3/8" CASING, CIRC. CEMENT CSG.						
24-Hr Forecast:	WOC, CUT OFF CASING & WELD ON BRADEN HEAD, TEST HEAD & N/U BOPE & CHOKE EQUIPMENT						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	Str Wt Up/Dn:	/	Pump Rate:	293.0	Conn:		
Next Casing:	13.375in @ 3,000ft	Str Wt Rot:		Pump Press:	250.0	Trip:		
Last BOP Press Test:	12/18/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	37
Total on Site:	38

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	17.500	BAKER HUGHES INTE	GTX C-20	6068047		3x20	2,895.0	2,895.0	1-0-BT-M	E-I-WT-LOG

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	17.5 lbm/bbl
Sample From:	PIT	pH:	9.0
Mud Type:	LOW SOLIDS / NON-DISPER	Pm / Pom:	
Time / MD:	0:01 / 2,895.0	Pf / Mf:	0.1 / 0.4
Density @ Temp:	9.00 / 86	Chlorides:	2,600
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	47.00	CaCl2:	
PV / YP:	14 / 14	Clom:	
Gels 10s/10m/30m:	11 / 20 / 26	Lime:	
API WL:	13.90	ES:	
HTHP WL:		ECD:	9.00
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.80	Carbonate:	
Oil / Water:	/ 95.0	Bicarbonate:	
Sand:	0.05	Form Loss:	0.0 / 156.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.80 / 43.00		

VG Meter: 5@3 / 7@6 / 16@100 / 21@200 / 28@300 / 42@600

Comments: LANDED CASING AT 2885 WITH NO HOLE PROBLEMS. RIGGED UP CEMENTERS AND CEMENTED 13.375" SURFACE CASING WITH NO PROBLEMS. CURRENTLY NIPPLING UP AND DUMPING PITS

LAST OR CURRENT BHA

BHA No: 2 Bit No: 2 MD In: 2,895.0 ft

Purpose: MD Out: 2,895.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	17.500	3.000	1	1.50
BIT SUB	9.812	2.875	1	1.98
FLOAT SUB	8.000	3.438	1	3.69
CROSSOVER	8.000	3.000	1	3.52
SPIRAL DRILL COLLAR	9.500	3.000	4	118.71
CROSSOVER	9.500	3.000	1	3.25
SPIRAL DRILL COLLAR	7.875	2.813	9	265.37
CROSSOVER	6.875	2.875	1	3.00
CROSSOVER	6.000	2.875	1	2.52
HWDP	5.000	3.000	24	735.92

Total Length: 1,139.46 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
SAWDUST	2000 LBS/SK	6.00
TAX	EACH	1.00

RECEIVED

FEB 09 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/02/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 35

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	14SURC	CSG	RIGUP	P	S/M W/CASERS & R/U CASING EQUIPMENT.
3:00	14:00	11.00	14SURC	CSG	RUNCSG	P	BUILD SHOE TRACK & RUN 13 3/8" CASING TO 2885. FILLED CASING AS NEEDED. CIRCULATED CASING AT 1100'
14:00	15:00	1.00	14SURC	CSG	RIGUP	P	R/D CASING RUNNING EQUIPMENT. CIRCULATED CASING W/RIG PUMP
15:00	17:30	2.50	14SURC	CIRC	CNDHOL	PT	CIRCULATED CASING W/ RIG PUMP. W/O CEMENTERS.
17:30	19:00	1.50	14SURC	CMT	RIGUP	P	CIRCULTED CASING W/ RIG PUMP. SPOT AND R/U HALLIBURTON CEMENTERS. HELD PJSM.
19:00	0:00	5.00	14SURC	CMT	PRIM	P	TEST LINES TO 3400 PSI. OK, PUMP 10/30/10 SPACERS FOLLOWED BY 1120 SXS OF LEAD @ 12.3 PPG, YIELD OF 2.33 & 12.63 WATER GAL/SK FOLLOWED BY 170 SXS OF TAIL @ 12.8 PPG, YIELD OF 2.07 & 10.68 WATER GAL/SK, DROP PLUG & PUMP 30 BBL. TUNED SPACER FOLLOWED BY 10.0 PPG BRINE WATER , BUMP PLUG TO 1500 PSI. HELD PRESSURE FOR 15 MINS. RELEASED PRESSURE, FLOAT HELD WITH 2 BBLS. BLEED BACK. HAD GOOD RETURNS THRU OUT JOB WITH 131 BBLS. OF CEMENT TO SURFACE. CMT. DROPPED OUT OF SIGHT AFTER 15 MINS.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	117.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	117.00	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 12,508 GALS. RIG FUEL USED = 1696GALS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/03/2009

Report No: 36

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	7.66
Today's MD:	2,895.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,895.0 ft	**Rot Hrs Today:**	0.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:**

Current Ops: NIPPLE UP BOPE & CHOKE EQUIPMENT

24-Hr Summary: WOC, TOP JOB, WOC, CUT OFF CSG, WELD ON BRADEN HEAD, N/U BOPE

24-Hr Forecast: TEST BOPE & CHOKE EQUIPMENT & ANNULAR, FILL TANKS W/BRINE WATER & M/U BHA

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	13.375in @ 3,000ft	**Str Wt Rot:**		**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**						

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA -

Engineer:		**MBT:**	
Sample From:		**pH:**	
Mud Type:		**Pm / Pom:**	
Time / MD:	0:01 / 2,895.0	**Pf / Mf:**	/
Density @ Temp:	10.20 /	**Chlorides:**	
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:		**CaCl2:**	
PV / YP:	/	**Clom:**	
Gels 10s/10m/30m:	/ /	**Lime:**	
API WL:		**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	/	**Carbonate:**	
Oil / Water:	/	**Bicarbonate:**	
Sand:		**Form Loss:**	0.0 / 156.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	/		

VG Meter:

Comments:

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00

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FEB 09 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/03/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 36

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	14SURC	CMT	PRIM	P	WOC
1:30	2:00	0.50	14SURC	CMT	Other	P	PERFORM A 15 BBL. TOP JOB
2:00	6:00	4.00	14SURC	CMT	WOC	P	WOC
6:00	8:00	2.00	14SURC	TRIP	PULD	P	LAY DOWN HWDP
8:00	8:30	0.50	14SURC	SAFE	PJSM	P	PRE-JOB SAFETY MEETING
8:30	15:00	6.50	14SURC	WLHD	RWH	P	CUT OFF 13 3/8" CSG. & WELD ON BRADEN HEAD & TEST SAME TO 1500 PSI.
15:00	18:00	3.00	14SURC	WLHD	RWH	P	N/U B SECTION OF WELL HEAD ASSEMABLY
18:00	0:00	6.00	14SURC	BOP	RUBOP	P	N/U BOPE & CHOKE EQUIPMENT
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	118.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	118.00	CLEAR AND 16 DEG.

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND =11,448 GALS. RIG FUEL USED = 1,060GALS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/04/2009
Report No: 37

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	8.66
Today's MD:	2,895.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,895.0 ft	**Rot Hrs Today:**	0.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@.0 **Lithology:**

Current Ops: CHANGE OUT IBOP VALVE ON TOP DRIVE

24-Hr Summary: TEST BOPE & CHOKE , REPLACE IBOP VALVE ON TOP DRIVE

24-Hr Forecast: RE-TEST IBOP VALVE, SET MOUSE HOLES, INSTALL WEAR BUSHING, P/U BHA

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	20.000in @ 1,135ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	13.375in @ 3,000ft	**Str Wt Rot:**		**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	12/18/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	26
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	**MBT:**	0.0 lbm/bbl
Sample From:	PIT	**pH:**	7.0
Mud Type:	BRINE / POLYMER WBM	**Pm / Pom:**	
Time / MD:	0:01 / 2,895.0	**Pf / Mf:**	0.0 / 0.1
Density @ Temp:	10.10 / 41	**Chlorides:**	190,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	28.00	**CaCl2:**	
PV / YP:	0 / 0	**Clom:**	
Gels 10s/10m/30m:	0 / 0 / 0	**Lime:**	
API WL:		**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	.0 /	**n / K:**	/
Solids / Sol Corr:	/ 0.40	**Carbonate:**	
Oil / Water:	/ 99.0	**Bicarbonate:**	
Sand:		**Form Loss:**	0.0 / 156.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	0.40 / 4.00		

VG Meter: 0@3 / 0@6 / 1@100 / 1@200 / 2@300 / 2@600

Comments: FILLED PITS WITH 10.1PPG BRINE WATER AND CIRCULATING/ CONDITIONING SYSTEM.

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/04/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 37

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	14SURC	BOP	RUBOP	P	NIPPLE UP BOPE & KOOMY LINES FUNCTION TEST BOPE
4:00	6:00	2.00	14SURC	BOP	TSTBOP	P	TEST BOPE & CHOKE EQUIPMENT 250/5000 PSI & ANNULAR 250/3500 PSI.
6:00	14:00	8.00	14SURC	BOP	TSTBOP	P	TEST BOPE & CHOKE EQUIPMENT 250/5000 PSI & ANNULAR 250/3500 PSI. UPPER IBOP ON TOP DRIVE FAILED TO TEST.
14:00	18:00	4.00	14SURC	BOP	TSTBOP	PT	TEST BOPE & CHOKE EQUIPMENT 250/5000 PSI & ANNULAR 250/3500 PSI. REMOVE TEST JOINT. ATTEMPT TO TEST BLIND RAMS, 10,000# GAUGE AT CHOKE MANIFOLD FAILED, PRESSURE TUBE RUPTURED. NOTE: NABORS WENT ON ZERO RATE AT 14:00 HOURS PER AGREEMENT / CONTRACT OF 20 HOURS TO NIPPLE UP BOP AND TEST.
18:00	0:00	6.00	14SURC	RIGMT	REP	PT	REPLACE IBOP VALVE ON TOP DRIVE
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	119.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	119.00	CLOUDY

Incident Comments:

No incidents reported last 24 hours. 8 Safe work permits issued.
3 Hot work permits issued.

Other Remarks:

RIG FUEL ON HAND =13,563 GALS. RIG FUEL USED = 1908GALS. ACCUMLATOR TEST: ANNULAR INTIAL PSI. 2750 FINAL PSI. 2220 TIME: 17 SEC. CLOSE PIPE RAMS: INTIAL PSI. 2220 PSI. FINAL PSI. 2070 TIME: 4 SEC.
OPEN PIPE RAMS: INTIAL PSI.
2070 FINAL PSI. 1980 PSI. TIME 4 SEC. CLOSE HCR: INTIAL PSI. 1980 PSI FINAL PSI. 1970 PSI TIME: 1 SEC.
PIPE RAMS: INTIAL PSI. 1970 PSI.
FINAL PSI. 1845 TIME: 5 SEC.
NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 32

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/05/2009

Report No: 38

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	9.66
Today's MD:	2,915.0 ft	**Progress:**	20.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	2,895.0 ft	**Rot Hrs Today:**	0.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	40.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: VOLCANICS@2,538.0 **Lithology:** VOLCANIC TUFF DIPPING VAT

Current Ops: CIRCULATE BOTTOM'S UP

24-Hr Summary: M/U BHA, TIH, TEST MOTOR, TIH, D/O F/E & SHOE TRACK, D/F 2895' TO 2915'

24-Hr Forecast: CIRC, BTMS, UP, LOST 196 BBLS, SPOT 30 LCM PILL ON BTM,

CASING/WELL CONTROL	
Last Casing:	20.000in @ 1,135ft
Next Casing:	13.375in @ 3,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	LOT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	220.0/ 220.0 kip	Pump Rate:	728.4
Str Wt Rot:	220.0 kip	Pump Press:	2,730.0
Torq Off Btm:	4.0 ft-lb		
Torq On Btm:	4.0 ft-lb		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
2,729.0	0.63	144.71	2,728.51	-17.5	-7.7	-17.3	0.99	-0.06
2,635.0	0.69	233.82	2,634.51	-16.7	-7.6	-16.6	0.68	-0.01
2,542.0	0.70	287.52	2,541.52	-16.5	-6.6	-16.4	0.39	0.20
2,447.0	0.51	318.79	2,446.52	-17.0	-5.7	-16.9	0.18	0.02
2,351.0	0.49	299.14	2,350.52	-17.6	-5.1	-17.5	0.28	0.18
2,257.0	0.32	328.55	2,256.53	-18.0	-4.6	-17.9	0.30	0.29

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0		- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	0.50	0.50	20.0	20.0	40.0	40.0	10.0/20.0	25/30	0.902	609.3	259.7	2.2

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES/JOHN R. PETE	**MBT:**	
Sample From:	PIT	**pH:**	10.0
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 2,915.0	**Pf / Mf:**	0.4 / 1.0
Density @ Temp:	10.10 / 51	**Chlorides:**	190,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	30.00	**CaCl2:**	
PV / YP:	/ 2	**Clom:**	
Gels 10s/10m/30m:	0 / 0 / 0	**Lime:**	
API WL:		**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	/ 0.50	**Carbonate:**	
Oil / Water:	/ 99.0	**Bicarbonate:**	
Sand:		**Form Loss:**	196.0 / 352.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	0.50 / 3.60		

VG Meter: 0@3 / 0@6 / 1@100 / 1@200 / 2@300 / 2@600

Comments: PICKED UP BHA AND TIH WITH NO PROBLEMS.
CORROSION RING WAS PLACED IN THE FIRST STAND ABOVE HWDP.
DRILLED TO 2915 AND STARTED TAKING MODERATE LOSSES.

LAST OR CURRENT BHA

BHA No: 3 Bit No: 3 MD In: 2,885.0 ft

Purpose: DIRECTIONAL DRILL 12 1/4 HOLE MD Out:

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.86
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	3.04
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	30.45
MWD TOOL	8.500	2.123	1	31.99
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,325.80 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	4.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL HY	50 LBS/SK	6.00
SALTGEL	50 LB/SX	11.00
SEA MUD	50 LBS/SK	7.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/05/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 38

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	14SURC	BOP	TSTBOP	PT	RE-TEST IBOP VALVE
1:30	2:30	1.00	14SURC	RIGMT	REP	PT	RECLAMP IBOP VALVE TO TOP DRIVE, SET MOUSE HOLES & L/D 2 JTS. OF DP USED FOR BOPE TEST
2:30	3:30	1.00	14SURC	BOP	CHRAMS	P	INSTALL WEAR BUSHING
3:30	11:30	8.00	14SURC	TRIP	BHA	P	PICK UP BHA #3 CONSISTING OF 12.25 " FM3663Z BIT, PWER DRIVE, DOWN HOLE FILTER SUB, X-O, MUD MOTOR, MWD/TELESCOPE, 12-1/8" STRING STAB, NON MAG DRILL COLLAR, 11 8" STEEL DRILL COLLARS, X-O, 7 JOINTS OF HWDP, JAR, 21 JOINTS OF HWDP = 1325.80'.
11:30	12:00	0.50	14SURC	TRIP	BHA	P	PICK UP CROSS OVER AND 1 JOINT OF 5" HWDP.
12:00	12:30	0.50	14SURC	SRFEQ	RIGUP	P	MAKE UP KELLY HOSE TO TOP DRIVE.
12:30	12:45	0.25	14SURC	CIRC	CNDFLD	P	SURFACE TEST MWD @ 630 GPM, 1158 PSI.
12:45	14:30	1.75	14SURC	TRIP	BHA	P	PICK UP 27 JOINTS OF 5" HWDP.
14:30	15:30	1.00	14SURC	TRIP	DRILL	P	RUN IN THE HOLE TO 2,468'.
15:30	16:00	0.50	14SURC	SRFEQ	RIGUP	P	INSTALL ROTATING RUBBER.
16:00	18:00	2.00	14SURC	SRFEQ	REPR	PT	ATTEMPT TO TEST SURFACE EQUIPMENT, WASH PIPE PACKING DEVLOPED A LEAK AT THE UPPER GREASE FITTING. CHANGE OUT WASH PIPE PACKING.
18:00	18:30	0.50	14SURC	RIGMT	SRVRIG	P	SERVICE RIG
18:30	19:00	0.50	14SURC	SRFEQ	RIGUP	P	TEST SURFACE EQUIPMENT TO 3200 PSI. OK
19:00	20:30	1.50	14SURC	CSG	PIPE	P	TEST 13 3/8" CASING TO 1100 PSI. FOR 30 MINS. OK
20:30	21:00	0.50	14SURC	WLCNTL	CRCCND	P	CHOKE DRILL
21:00	21:30	0.50	14SURC	TRIP	PULD	P	TRIP IN HOLE & TAG CEMENT @ 2800'
21:30	23:00	1.50	14SURC	DRLOUT	DOCMT	P	DRILL OUT FLOAT EQUIPMENT & SHOE TRACK.
23:00	23:30	0.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12 1/4" HOLE FROM 2895' TO 2915',HAD 100% RETURNS TO 2913', HOLE STARTED TAKING FLUID, LOST 196 BBLS.
23:30	0:00	0.50	21INDR	CIRC	CNDHOL	P	CIRCULATE BOTTOM'S UP
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	120.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	120.00	CLOUDY

Incident Comments:
No incidents reported last 24 hours. 3 Safe work permits issued.
1 Hot work permit issued.

Other Remarks: RIG FUEL ON HAND =12,084 GALS. RIG FUEL USED = 1484GALS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 15

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/06/2009
Report No: 39

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	10.66
Today's MD:	3,651.0 ft	Progress:	736.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	2,915.0 ft	Rot Hrs Today:	20.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	35.9 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation:	VOLCANICS@2,538.0
Lithology:	VOLCANIC TUFF
Current Ops:	DIRECTIONAL DRILL 12 1/4" HOLE F/2995' TO 3651'
24-Hr Summary:	DIRECTIONAL DRILL 12 1/4" HOLE FROM 2995' TO 3651'
24-Hr Forecast:	DIRECTIONAL DRILL 12 1/4" HOLE

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	240.0/ 237.0 kip
Str Wt Rot:	230.0 kip
Torq Off Btm:	4.0 ft-lbf
Torq On Btm:	4.0 ft-lbf

HYDRAULICS

Pump Rate:	778.6
Pump Press:	3,039.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
3,633.0	1.30	351.19	3,632.49	-17.0	-7.5	-16.9	0.93	0.91
3,538.0	0.44	335.98	3,537.50	-18.4	-7.2	-18.3	0.48	0.42
3,442.0	0.04	92.40	3,441.50	-18.7	-7.0	-18.6	0.11	-0.06
3,347.0	0.10	1.95	3,346.50	-18.8	-7.1	-18.7	0.23	-0.02
3,251.0	0.12	185.52	3,250.50	-18.8	-7.1	-18.7	0.11	-0.01
3,155.0	0.13	234.01	3,154.50	-18.6	-7.0	-18.5	0.14	0.14

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0		--	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	20.50	21.00	736.0	756.0	35.9	36.0	15.0/20.0	20/30	0.902	711.8	280.6	2.8

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	20.0 lbm/bbl
Sample From:	PIT	pH:	10.0
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 3,651.0	Pf / Mf:	0.1 / 0.4
Density @ Temp:	10.10 / 99	Chlorides:	200,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	48.00	CaCl2:	
PV / YP:	13 / 25	Clom:	
Gels 10s/10m/30m:	15 / 18 / 22	Lime:	
API WL:		ES:	
HTHP WL:		ECD:	10.41
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 3.60	Carbonate:	
Oil / Water:	/ 99.0	Bicarbonate:	
Sand:	0.25	Form Loss:	0.0 / 352.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	0.40 / 3.63		

VG Meter: 9@3 / 11@6 / 23@100 / 30@200 / 38@300 / 51@600

Comments: IMPROVED YIELD POINT AND RHEOLOGIES WITH ADDITIONS OF SALT GEL/SEA MUD. LOSSES WERE CONTROLLED WITH 15-20BBLS SWEEPS OF 15% LCM AS NEEDED. CURRENTLY

LAST OR CURRENT BHA

BHA No: 3 Bit No: 3 MD In: 2,885.0 ft
Purpose: DIRECTIONAL DRILL 12 1/4 HOLE MD Out:

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.86
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	3.04
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	30.45
MWD TOOL	8.500	2.123	1	31.99
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,325.80 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
ALUM. STEARATE	44 LB/SX	1.00
CAUSTIC SODA	50 LB/SX	3.00
DYNAFIBER M	25 LB/SX	8.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	5.00
FLOW-ZAN	25 LB SX	3.00
MICA FINE	50 LB/SX	7.00
NEW BAR	100 LB/SX	6.00
NEW CARB	50 LB/SX	16.00
NEW GEL	100 LBS/SK	35.00
NEW GEL HY	50 LBS/SK	28.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/06/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 39

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	21INDR	CIRC	CNDHOL	P	PICK UP TO THE SHOE & SPOT A 30 BBL. LCM PILL ON BTM.
0:30	1:30	1.00	21INDR	LCIRC	HEAL	P	PULL ROTATING RUBBER TO MONITOR WELL FOR LOST CIRCULATION
1:30	2:00	0.50	21INDR	RIGMT	SRVRIG	P	BLOW DOWN CHOKE LINES, CHOKE MAINFOLD & GAS BUSTER
2:00	2:30	0.50	21INDR	DRILL	RSS	P	DOWN LINK DIRECTIONAL TOOLS
2:30	4:00	1.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12 1/4" HOLE F/2915' TO 2965', FLOW RATE OF 28%, GPM 730, PUMP PRESSURE 2787 PSI. WITH 4 BBL. LOSS.
4:00	4:30	0.50	21INDR	CIRC	CNDHOL	P	CIRCULATE BOTTOMS UP, CHECKED SHAKERS NOT MUCH CUTTING COMING OVER & REAL FINE
4:30	5:00	0.50	21INDR	CIRC	CNDHOL	P	TRY TO PERFORM A F.I.T. PUMP 10 BBLS. OF FLUID @ 5 STROKES A MIN. COULD ONLY BUILD 140 PSI. NEEDED 432 PSI TO GET AN EMW OF 13.0 PPG.
5:00	6:00	1.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12 1/4" HOLE F/2965' TO 2995' ROP 30 FPH, 730 GPM, P/P 2680, TORQUE 4, F/R 28%
6:00	18:00	12.00	21INDR	DRILL	RSS	P	DRILL FROM 2,995' TO 3,447' , 452' ROP= 37.7' WOB - 20K; RPM: 30; TQ= 4 T/ 6K 800 GPM = 3029 PSI UP WT= 235K; DN WT= 225K; RT WT= 220K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1 PPG. WT OUT 10.1 PPG. FLOW SHOW 31% LOSS RATE = 0
18:00	0:00	6.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12 1/4" HOLE FROM 3447' TO 3651' 204', ROP 34 FPH, WOB 15/20K, RPM 30, TORQUE 4, GPM 787, 2941 PSI. UP WT=240, DN WT= 237, ROT WT=230, FLOW RATE 33%, LOSS RATE=0, MUD WT IN = 10.1, MUD WT OUT=10.1, VIS. 48 IN, VIS OUT = 45
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	121.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	121.00	CLOUDY / COULD

Incident Comments:
No incidents reported last 24 hours. 2 Safe work permits issued.
1 Hot work permit issued.

Other Remarks: RIG FUEL ON HAND =12,962 GALS. RIG FUEL USED = 3604 GALS. RECEIVED 4,000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

DAY LIGHT CREW SHORT 1.
EVENING TOUR CREW FULL.
THIRD PARTY PERSONAL SIGNED IN = 8
BOTH CREWS HELD WELL CONTROL DRILL

T25S R01WS-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/07/2009
Report No: 40

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	11.66
Today's MD:	4,599.0 ft	**Progress:**	948.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	3,651.0 ft	**Rot Hrs Today:**	22.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	43.1 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: TERTIARY@3,820.0 **Lithology:** CLAY / SHALE

Current Ops: SPOT 80 BBL. LCM PILL ON BTM. @ 15# PER BBL.

24-Hr Summary: DRILL 12 1/4" HOLE F/3651' TO 4599', SPOT LCM PILL ON BTM.

24-Hr Forecast: BUILD VOLUME & PUMP LCM SWEEPS, DRILL AHEAD

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	243.0/ 238.0 kip	Pump Rate:	389.3	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	235.0 kip	Pump Press:	3,450.0	Trip:		
Last BOP Press Test:	02/05/2009	Torq Off Btm:	4.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	5.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
4,490.0	8.81	3.99	4,485.73	55.7	-1.3	55.7	0.91	0.88
4,395.0	7.97	5.29	4,391.75	41.9	-2.4	41.9	0.94	0.89
4,300.0	7.12	7.30	4,297.57	29.5	-3.7	29.6	1.08	1.07
4,204.0	6.09	8.52	4,202.21	18.6	-5.2	18.6	1.10	1.10
4,111.0	5.07	7.58	4,109.65	9.6	-6.5	9.7	0.85	0.84
4,016.0	4.27	6.63	4,014.97	1.9	-7.5	2.1	0.72	0.67

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0		- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	22.00	43.00	948.0	1,704.0	43.1	39.6	18.0/20.0	20/30	0.902	729.8	282.8	2.9

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 4,599.0	**Pf / Mf:**	0.2 / 0.5
Density @ Temp:	10.20 / 110	**Chlorides:**	185,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	52.00	**CaCl2:**	
PV / YP:	20 / 20	**Clom:**	
Gels 10s/10m/30m:	11 / 15 / 20	**Lime:**	
API WL:	25.00	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 2.00	**Carbonate:**	
Oil / Water:	/ 98.0	**Bicarbonate:**	
Sand:	0.25	**Form Loss:**	240.0 / 592.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	2.00 / 18.00		

VG Meter: 9@3 / 10@6 / 20@100 / 30@200 / 40@300 / 60@600

Comments: ADDED 80 BBLS OF PRE HYDRATED FRESH WATER GEL. LOST COMPLETE CIRCULATION AT 4592. ADDITIONS OF LCM WERE DIRECTLY ADDED TO SUCTION. BEGAN BUILDING VOLUME

LAST OR CURRENT BHA

BHA No: 3 Bit No: 3 MD In: 2,885.0 ft
Purpose: DIRECTIONAL DRILL 12 1/4 HOLE MD Out:

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.86
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	3.04
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	30.45
MWD TOOL	8.500	2.123	1	31.99
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,325.80 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
ALUM. STEARATE	44 LB/SX	1.00
CAUSTIC SODA	50 LB/SX	5.00
DRILLSTAR HT	25 LB/SK	110.00
DYNAFIBER M	25 LB/SX	10.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	8.00
MICA FINE	50 LB/SX	5.00
NEW GEL	100 LBS/SK	51.00
NOFOAM X	5 GAL/CN	6.00
SALTGEL	50 LB/SX	100.00
SAWDUST	2000 LBS/SK	50.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/07/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 40

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	21INDR	DRILL	RSS	P	DRILL 12 1/4' HOLE F/3651' TO 3796'
3:00	3:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG
3:30	6:00	2.50	21INDR	DRILL	RSS	P	DRILL 12 1/4" HOLE F/3796' TO 3870'
6:00	12:30	6.50	21INDR	DRILL	RSS	P	DRILL FROM 3,870' TO 4,080' , 210" ROP= 32.3' WOB - 20K; RPM: 30; TQ= 4, 800 GPM = 3150 PSI UP WT= 230K; DN WT= 230K; RT WT= 240K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1 PPG. WT OUT 10.1 PPG. FLOW SHOW 34% LOSS RATE = 0 BOP DRILL: 1 MIN 35 SEC REACTION TIME
12:30	13:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
13:00	19:00	6.00	21INDR	DRILL	RSS	P	DRILL FROM 4,080' TO 4,365' , 285' ROP= 47.5' WOB - 20K; RPM: 30; TQ= 6, 794 GPM = 3250 PSI UP WT= 240K; DN WT= 235K; RT WT= 240K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10+ PPG. WT OUT 10+ PPG. FLOW SHOW 36% LOSS RATE = 0
19:00	19:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG
19:30	23:30	4.00	21INDR	DRILL	RSS	P	DRILL FROM 4365' TO 4599', ROP= 58.7' WOB-20K, RPM 30, TQ=5, 795 GPM = 3350 PSI UP=243K, DN=238K, RT=235K SHOCKS & LAT VIBS, LEVEL 0 STICK SLIP= 0 RPM WT IN 10.2 PPG. WT OUT 10.1PPG. FLOW RATE 35% LOSS= 0
23:30	0:00	0.50	21INDR	LCIRC	HEAL	P	LOSS TOTAL RE-TURNS @ 4599', SPOT 80 LCM PILL @ 15# PER BBL. ON BTM. LOSS = 200 BBLS.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	122.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	122.00	CLOUDY & COLD

Incident Comments:
No incidents reported last 24 hours. 5 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND =9540 GALS. RIG FUEL USED = 3392 GALS. RECEIVED 0 GALLONS.

LOSSED RETURNS @ 4599', HOLE TOOK 200 BBLS. SPOT 80 LCM PILL ON BTM. POOH 5 STANDS. LET PILL SOAK, TRY & FILL BACK SIDE W/80 BBL. LCM PILL WOULD NOT FILL, PUMP ANOTHER 80 BBL. LCM PILL DOWN THE STRING GOT RETURNS @ HALF THE FLOW RATE, STILL LOSING @ 75 TO 80 BBLS. PER HR. WILL SPOT A 80 BBL. 30# PER BBL. PILL & POOH TO THE SHOE & LET IT SOAK.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 15
BOTH CREWS HELD WELL CONTROL DRILL.

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/08/2009
Report No: 41

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	12.66
Today's MD:	4,870.0 ft	**Progress:**	271.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	4,599.0 ft	**Rot Hrs Today:**	8.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	31.9 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: ARAPIEN SHALE@4,778.0 **Lithology:** CLYST, GY BN, IT GY GN, SLTST: BRN GY, LS: WH IT GY GN, BRN, MI

Current Ops: CIRCULATE & CONDITION MUD (BRING DOWN WATER LOSS)

24-Hr Summary: PUMP LCM PILLS, DRILL F/4268' TO 4870', CIRC. & COND. MUD

24-Hr Forecast: CIRCULATE & CONDITION MUD, DRILL 12 1/4" HOLE

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	**Str Wt Up/Dn:**	245.0/ 240.0 kip	**Pump Rate:**	385.1	**Conn:**		
Next Casing:	9.625in @ 11,000ft	**Str Wt Rot:**	243.0 kip	**Pump Press:**	3,301.0	**Trip:**		
Last BOP Press Test:	02/05/2009	**Torq Off Btm:**	4.0 ft-lbf			**Backgr:**		
Form Test/EMW:	FIT	**Torq On Btm:**	5.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
4,776.0	10.76	3.13	4,767.88	102.4	1.2	102.3	1.76	1.76
4,681.0	9.09	2.48	4,674.31	86.0	0.4	86.0	0.28	-0.25
4,586.0	9.33	3.18	4,580.53	70.8	-0.3	70.8	0.56	0.54
4,490.0	8.81	3.99	4,485.73	55.7	-1.3	55.7	0.91	0.88
4,395.0	7.97	5.29	4,391.75	41.9	-2.4	41.9	0.94	0.89
4,300.0	7.12	7.30	4,297.57	29.5	-3.7	29.6	1.08	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0		- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	8.50	51.50	271.0	1,975.0	31.9	38.3	18.0/24.0	25/30	0.902	717.0	280.3	2.8

MUD DATA - NEWPARK-AVA

Engineer:	JODY GRAHAM / SCOTT JON	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	9.8
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 4,870.0	**Pf / Mf:**	0.1 / 0.3
Density @ Temp:	10.20 / 120	**Chlorides:**	168,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	54.00	**CaCl2:**	
PV / YP:	13 / 25	**Clom:**	
Gels 10s/10m/30m:	23 / 30 / 2	**Lime:**	
API WL:	35.00	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 1.20	**Carbonate:**	
Oil / Water:	/ 98.8	**Bicarbonate:**	
Sand:	0.25	**Form Loss:**	650.0 / 1,242.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	1.20 / 10.80		

VG Meter: 20@3 / 25@6 / 36@100 / 41@200 / 47@300 / 61@600

Comments: DRILLED FROM 4599 TO 4870. NO RETURNS WERE CARRIED OVER FROM PREVIOUS DAY. BUILT SEVERAL VOLUME PILLS WITH 20PPB SALT GEL/SEA MUD, .7 PPB CAUSTIC AND 12%LCM

LAST OR CURRENT BHA

BHA No: 3 Bit No: 3 MD In: 2,885.0 ft
Purpose: DIRECTIONAL DRILL 12 1/4 HOLE MD Out:

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.86
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	3.04
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	30.45
MWD TOOL	8.500	2.123	1	31.99
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,325.80 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	11.00
DRILLSTAR HT	25 LB/SK	90.00
DRILLTHIN	25 LB/SX	6.00
DYNAFIBER M	25 LB/SX	20.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	66.00
MICA FINE	50 LB/SX	36.00
NEWEDGE	50 LB/SX	60.00
NEWPAC R	50 LB/SX	29.00
SALTGEL	50 LB/SX	255.00
SAWDUST	2000 LBS/SK	100.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/08/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 41

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	21INDR	LCIRC	LCM	PT	SPOT 80 BBL. LCM PILL ON BTM. @ 15# PER BBL. POOH 5 STANDS & LET IT SOAK, PUMP 80 BBLS. LCM PILL DOWN BACK SIDE TO SEE IF IT WOULD FILL, IT WOULD NOT FILL. PUMP ANOTHER 80 BBL. LCM PILL DOWN DRILL STRING, GOT PARTIAL RETURNS, STILL LOSSING 75 TO 80 BBLS. PER HR.
6:00	7:00	1.00	21INDR	LCIRC	LCM	PT	MIX 100 BBLS OF 30#/BBL LCM PILL. RECIPROCATING DRILL STRING WHILE ALLOWING LCM TO SOAK. WELL BORE STATIC.
7:00	8:00	1.00	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE SLOWLY FROM 4,268' TO 4,570'. TAKING 25K DOWN WEIGHT AT 4,570' (INSTALLING ROTATING RUBBER AT 4,287'. WELL BORE STILL STATIC)
8:00	8:30	0.50	21INDR	REAM	PRRM	PT	STAGE PUMPS UP SLOWLY TO 730 GPM, 3153 PSI. WASH AND REAM FROM 4,570' TO 4,599'. FLOW SHOW 26%
8:30	11:30	3.00	21INDR	DRILL	RSS	P	DRILL FROM 4,599' TO 4,676' , 77" ROP= 25.6' WOB - 20K; RPM: 30; TQ= 6, 730 GPM = 3347 PSI UP WT= 243K; DN WT= 235K; RT WT= 240K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2 PPG. WT OUT 10.2 PPG. FLOW SHOW 26 TO 28% LOSS RATE = 40 BBL/HR PUMPING 10 BBL 30#/BBL LCM SWEEPS.
11:30	12:00	0.50	21INDR	CIRC	CNDHOL	P	DOWN LINK POWER V FROM 45% TO 75%.
12:00	19:30	7.50	21INDR	DRILL	RSS	P	DRILL FROM 4,676' TO 4870', 194' ROP= 25.8' WOB - 22K; RPM: 30; TQ= 8, 760 GPM = 3308 PSI UP WT= 243K; DN WT= 235K; RT WT= 240K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2 PPG. WT OUT 10.2 PPG. FLOW SHOW 31% LOSS RATE = 10 BBL/HR PUMPING 10 BBL 30#/BBL LCM SWEEPS. ENCOUNTERED TIGHT HOLE WHILE BACK REAMING PRIOR TO MAKING A CONNECTION AT 4,730'. BACK REAM AREA TWICE NO FURTHER PROBLEMS. TOTAL FLUID LOST FOR 12 HRS = 204 BBLS TOTAL FLUID LOST SINCE ENCOUNTERING LOST CIRCULATION = 1087 BBLS.
19:30	20:00	0.50	21INDR	TRIP	COND	PT	POOH 2 STANDS
20:00	0:00	4.00	21INDR	CIRC	CNDFLD	PT	CIRCULATE & CONDITION MUD (BRING DOWN WATER LOSS)
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	123.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	123.00	CLOUDY / COLD

Incident Comments:
No incidents reported last 24 hours. 4 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND =6148 GALS. RIG FUEL USED = 3392 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 4
BOTH CREWS HELD WELL CONTROL DRILL.

T25S R01W S03 API #43041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/09/2009

Report No: 42

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	13.66
Today's MD:	5,124.0 ft	**Progress:**	254.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	4,870.0 ft	**Rot Hrs Today:**	8.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	31.7 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: ARAPIEN SHALE@4,778.0 **Lithology:** SH: YEL SBLKY, CALC, LS: YEL, CRYPTO XL,DNS,HD, SLTST:RED, PI

Current Ops: LAY DOWN MUD MOTOR, V-DRIVE & BIT

24-Hr Summary: DRILL F/4870' TO 5124', CIRC. POOH & L/D DIRECTIONAL TOOLS

24-Hr Forecast: L/D DIR. TLS. & P/U & M/U V-DRIVE & TEST SAME, CONTINUE TO M/U DIR. TLS. & TIH, DRILL NEW 12 1/4" HOLE

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	238.0/ 230.0 kip
Str Wt Rot:	235.0 kip
Torq Off Btm:	4.0 ft-lbf
Torq On Btm:	5.0 ft-lbf

HYDRAULICS

Pump Rate:	782.8
Pump Press:	3,350.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,055.0	11.09	7.89	5,041.82	155.1	5.7	155.0	0.72	0.56
4,965.0	10.59	5.70	4,953.42	138.3	3.7	138.2	0.86	-0.73
4,871.0	11.28	3.51	4,861.13	120.5	2.3	120.4	0.55	0.55
4,776.0	10.76	3.13	4,767.88	102.4	1.2	102.3	1.76	1.76
4,681.0	9.09	2.48	4,674.31	86.0	0.4	86.0	0.28	-0.25
4,586.0	9.33	3.18	4,580.53	70.8	-0.3	70.8	0.56	0.54

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0	5,124.0	1-1-CT-G	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	8.00	59.50	254.0	2,229.0	31.7	37.5	18.0/24.0	25/30	0.902	702.5	277.4	2.7

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES/JOHN R. PETE	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	9.9
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 5,124.0	**Pf / Mf:**	0.4 / 0.7
Density @ Temp:	10.20 / 96	**Chlorides:**	175,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	53.00	**CaCl2:**	
PV / YP:	16 / 22	**Clom:**	
Gels 10s/10m/30m:	18 / 22 / 25	**Lime:**	
API WL:	10.80	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 2.40	**Carbonate:**	
Oil / Water:	/ 97.0	**Bicarbonate:**	
Sand:	0.25	**Form Loss:**	130.0 / 1,372.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	2.40 / 22.00		

VG Meter: 17@3 / 19@6 / 26@100 / 27@200 / 38@300 / 54@600

Comments: COMPLETED CONDITIONING PITS AND LOWERING WATER LOS. DRILLED AHEAD TO 5124 WITH NO HOLE PROBLEMS. POOH TO CHANG OUT MOTOR/BIT. CIRCULATING AND

LAST OR CURRENT BHA

BHA No: 4 Bit No: 4 MD In: 5,124.0 ft

Purpose: MD Out: 5,920.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.72
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	27.76
MWD TOOL	8.500	2.123	1	31.17
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,322.09 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	6.00
DRILLSTAR HT	25 LB/SK	60.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
PALLETS	EA.	38.00
SALTGEL	50 LB/SX	50.00
SHRINK WRAP	EA.	38.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/09/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 42

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	21INDR	CIRC	CNDFLD	PT	CIRCULATE & CONDITION MUD (BRING DOWN WATER LOSS)
2:00	2:30	0.50	21INDR	REAM	PRRM	PT	TIH & WASH & REAM F/4700' TO 4870'
2:30	6:00	3.50	21INDR	DRILL	RSS	P	DRILL 12 1/4" HOLE FROM 4870' TO 4975'
6:00	9:30	3.50	21INDR	DRILL	RSS	P	DRILL FROM 4,870' TO 5,034', 164' ROP= 46.8' WOB - 25K; RPM: 30; TQ= 8, 780 GPM = 3300 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG. FLOW SHOW 37% LOSS RATE = 0 PUMPING 10 BBL 15#/BBL LCM SWEEPS. HELD PIT DRILL: REACTION TIME 1 MIN 25 SEC. DOWN HOLE TEMP @ 5,032' - 149 DEG.
9:30	10:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
10:00	10:30	0.50	21INDR	DRILL	RSS	P	DOWN LINK POWER DRIVE TO 85%.
10:30	15:00	4.50	21INDR	DRILL	RSS	P	DRILL FROM 5,034' TO 5,124', 90" ROP= 20" WOB - 25K; RPM: 30; TQ= 8, 815 GPM = 3460 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG. FLOW SHOW 37% LOSS RATE = 27 BBL/HR PUMPING 10 BBL 15#/BBL LCM SWEEPS. NOT GETTING THE NECESSARY BUILD RATES FROM THE POWER DRIVE. LOST 164 BBLS OF MUD TO FORMATION.
15:00	15:45	0.75	21INDR	CIRC	CNDHOL	PT	CIRCULATE BOTTOMS UP.
15:45	20:00	4.25	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 5,124' TO THE 13-3/8" CASING SHOE @ 2,885' (PUMPING OUT OF THE HOLE) REMOVE ROTATING RUBBER AND MONITOR WELL BORE FOR 15 MIN. WELL BORE STATIC.
20:00	23:00	3.00	21INDR	TRIP	DRILL	PT	POOH TO DIRECTIONAL BHA
23:00	0:00	1.00	21INDR	TRIP	BHA	PT	PRE-JOB SAFETY MEETING & START TO L/D DIRECTIONAL TOOLS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	124.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	124.00	SNOW

Incident Comments:
No incidents reported last 24 hours. 3 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 11,024 GALS. RIG FUEL USED = 2332 GALS. RECEIVED 8,000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 5
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 164
TOTAL MUD LOSS = 1449 BBLS

T25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/10/2009

Report No: 43

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	14.66
Today's MD:	5,230.0 ft	**Progress:**	106.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	5,124.0 ft	**Rot Hrs Today:**	3.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	30.3 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: TERTIARY@5,100.0 **Lithology:** sh: itgy, it pink, sblky, calc ls, brn gy, crypto xl, dns, hd, sltst, red pink yel c

Current Ops: DRILL 12 1/4" HOLE

24-Hr Summary: TIH, CUT & SLIP D/L, TIH & W/R 4464' TO 5124', D/F 5124' TO 5230'

24-Hr Forecast: DIRECTIONAL DRILL 12 1/4" HOLE

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	252.0/ 247.0 kip	**Pump Rate:**	703.3
Str Wt Rot:	250.0 kip	**Pump Press:**	3,008.0
Torq Off Btm:	4.0 ft-lbf		
Torq On Btm:	5.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	27
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,157.0	11.66	9.86	5,141.81	174.9	8.8	174.8	0.68	0.56
5,055.0	11.09	7.89	5,041.82	155.1	5.7	155.0	0.72	0.56
4,965.0	10.59	5.70	4,953.42	138.3	3.7	138.2	0.86	-0.73
4,871.0	11.28	3.51	4,861.13	120.5	2.3	120.4	0.55	0.55
4,776.0	10.76	3.13	4,767.88	102.4	1.2	102.3	1.76	1.76
4,681.0	9.09	2.48	4,674.31	86.0	0.4	86.0	0.28	-0.25

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF
3	12.250	SECURITY DBS	FM3663Z	11121544	323	6x14	2,885.0	5,124.0	1-1-CT-G	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
4	3.50	3.50	106.0	106.0	30.3	30.3	15.0/24.0	25/30	0.924	560.7	247.9	2.0

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	9.5
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 5,230.0	**Pf / Mf:**	0.2 / 0.5
Density @ Temp:	10.20 / 99	**Chlorides:**	172,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	49.00	**CaCl2:**	
PV / YP:	16 / 21	**Clom:**	
Gels 10s/10m/30m:	13 / 20 / 25	**Lime:**	
API WL:	12.00	**ES:**	
HTHP WL:	18.00	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	/ 2.00	**Carbonate:**	
Oil / Water:	/ 97.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	35.0 / 1,407.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	2.00 / 18.14		

VG Meter: 10@3 / 13@6 / 22@100 / 28@200 / 37@300 / 53@600

Comments: COMPLETED TOOH WITH NO PROBLEMS. PICKED UP NEW MOTOR, BIT AND POWERDRIVE. CONDITIONED MUD AND BUILT VOLUME WHILE TRIPPING. TIH AND RESUMED DRILLING

LAST OR CURRENT BHA

BHA No: 4 Bit No: 4 MD In: 5,124.0 ft

Purpose: MD Out: 5,920.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.72
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	27.76
MWD TOOL	8.500	2.123	1	31.17
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,322.09 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	12.00
DRILLSTAR HT	25 LB/SK	90.00
DYNAFIBER M	25 LB/SX	26.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	5.00
NEW GEL HY	50 LBS/SK	40.00
NEWEDGE	50 LB/SX	111.00
NEWPAC R	50 LB/SX	7.00
NOFOAM X	5 GAL/CN	2.00
SALTGEL	50 LB/SX	26.00
SEA MUD	50 LBS/SK	144.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/10/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 43

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:30	3.50	21INDR	TRIP	BHA	PT	LAY DOWN, V- DRIVE, MUD MOTOR, MWD & BIT SURFACE TEST V-DRIVE, THERE IS NO PHYSICAL DAMAGE THAT COULD BE SEEN. BIT WAS IN GREAT CONDITION.. NOTE: AFTER FUTHER INSPECTION IT WAS FOUND THAT THE PLUGS ON THE MUD MOTOR THAT CONVERT MOTOR TO A MUD BATH OR OIL BATH HAD WASHED OUT.
3:30	6:00	2.50	21INDR	TRIP	BHA	PT	PICK UP & MAKE UP MOTOR, V-DRIVE, MWD & BIT
6:00	9:00	3.00	21INDR	TRIP	BHA	PT	RUN IN THE HOLE WITH BHA #4 TO 1,322'. TRIP DRILL HELD: REACTION TIME 45 SECS.
9:00	10:00	1.00	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE TO 2,890'.
10:00	11:30	1.50	21INDR	RIGMT	SRVRIG	P	CUT AND SLIP DRILLING LINE. CIRCULATE BOTTOMS UP.
11:30	12:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
12:00	12:30	0.50	21INDR	SRFEQ	RIGUP	PT	INSTALL ROTATING RUBBER.
12:30	15:15	2.75	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 2,890' TO 4,570'. MODERATELY. FILLING PIPE AT 3,618' AND 4,390'. TAKING 15K DOWN WT AT 4,570'. LOST 4 BBLS OF MUD.
15:15	16:45	1.50	21INDR	REAM	PRRM	PT	WASH AND REAM FROM 4,570' TO 4,633' AT 720 GPM, 2906 PSI, FLOW 33%. AT BOTTOMS UP 70% INCREASE IN CUTTINGS. LOST 31 BBLS OF MUD
16:45	19:30	2.75	21INDR	REAM	PRRM	PT	WASH AND REAM AS A PRECAUTIONARY MEASURE FROM 4,633' TO 5,124'.
19:30	20:00	0.50	21INDR	CIRC	CNDHOL	PT	CIRCULATE BOTTOMS UP & DOWN LINK V-DRIVE
20:00	23:00	3.00	21INDR	DRILL	RSS	P	BREAK IN BIT AS PER DRILL PROG. DRILL F/5124' TO 5221' WOB: 15/24, P/U: 252, S/O: 247, ROT: 250 ROP: 32.3
23:00	23:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG
23:30	0:00	0.50	21INDR	DRILL	RSS	P	DRILL FROM 5221' TO 5230' WOB: 15/24, P/U: 252, S/O: 247, ROT: 250 ROP: 18
Total Time		24.00					

Safety Incident?	Y	**Days since Last RI:**	125.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	125.00	CLOUDY & CLOD

Incident Comments:
5 Safe work permits issued. Derrickman slipped on right hand toe board while running in the hole with drill pipe. individual caught him self with his right arm fully extended, stated he felt a little twinge in his right shoulder.

Other Remarks:

RIG FUEL ON HAND = 12,508GALS. RIG FUEL USED = 2756 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 10
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 120
TOTAL MUD LOSS = 1569 BBLS

T25S R01W S-03 API #43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/11/2009
Report No: 44

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	15.66
Today's MD:	5,505.0 ft	Progress:	275.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	5,230.0 ft	Rot Hrs Today:	10.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	26.2 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	TERTIARY@5,100.0			Lithology:			
Current Ops:	DIRECTIONAL DRILL 12 1/4" HOLE FROM 5230' TO 5395'						
24-Hr Summary:	DIRECTIONAL DRILL 12 1/4" HOLE FROM 5395' TO 5,505'						
24-Hr Forecast:	DIRECTIONAL DRILL 12 1/4" HOLE.						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE	
Str Wt Up/Dn:	247.0/ 245.0 kip
Str Wt Rot:	245.0 kip
Torq Off Btm:	3.0 ft-lb
Torq On Btm:	6.0 ft-lb

HYDRAULICS	
Pump Rate:	795.4
Pump Press:	3,250.0

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	DON VANHOUTEAN
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	28
Total on Site:	30

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,346.0	13.99	9.08	5,326.19	215.8	15.8	215.6	1.54	1.53
5,251.0	12.54	9.88	5,233.72	194.3	12.2	194.1	0.94	0.94
5,157.0	11.66	9.86	5,141.81	174.9	8.8	174.8	0.68	0.56
5,055.0	11.09	7.89	5,041.82	155.1	5.7	155.0	0.72	0.56
4,965.0	10.59	5.70	4,953.42	138.3	3.7	138.2	0.86	-0.73
4,871.0	11.28	3.51	4,861.13	120.5	2.3	120.4	0.55	0.55

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
4	10.50	14.00	110.0	216.0	10.5	15.4	20.0/25.0	30/30	0.924	575.7	249.9	2.1

MUD DATA -

Engineer:	SCOTT JONES / BRET GOAD	MBT:	20.0 lbm/bbl
Sample From:	PIT	pH:	9.5
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 5,505.0	Pf / Mf:	0.4 / 0.5
Density @ Temp:	10.30 /	Chlorides:	170,000
Rheology Temp:	90	Ca+ / K+:	/
Viscosity:	54.00	CaCl2:	
PV / YP:	19 / 19	Clom:	
Gels 10s/10m/30m:	12 / 21 / 24	Lime:	
API WL:	10.20	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	2.70 / 2.70	Carbonate:	
Oil / Water:	/ 97.3	Bicarbonate:	
Sand:	0.05	Form Loss:	747.0 / 2,154.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.70 / 24.49		

VG Meter: 7@3 / 10@6 / 18@100 / 23@200 / 38@300 / 57@600

Comments: BEGAN MILD LOSSES AT 5372 AND PUMPED 10 BBL 10% LCM SWEEPS WITH LITTLE EFFECT. MODERATE LOSSES AT APPROX. 5478. SPOTTED A 20 - 30 % LCM PILL AND PULLED OFF

LAST OR CURRENT BHA

BHA No: 4 Bit No: 4 MD In: 5,124.0 ft
Purpose: MD Out: 5,920.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.72
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	27.76
MWD TOOL	8.500	2.123	1	31.17
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,322.09 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	30.00
DRILLSTAR HT	25 LB/SK	78.00
DRILLTHIN	25 LB/SX	4.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	12.00
MICA FINE	50 LB/SX	50.00
NEWEDGE	50 LB/SX	34.00
NOFOAM X	5 GAL/CN	12.00
PHENOSEAL	50 LBS/SK	67.00
SALTGEL	50 LB/SX	251.00
SAWDUST	2000 LBS/SK	130.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/11/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 44

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	21INDR	DRILL	RSS	P	DRILL FROM 5230' TO 5395' WOB: 15/24, P/U: 252, S/O: 247, ROT: 250 ROP: 18
6:00	6:45	0.75	21INDR	DRILL	RSS	P	DRILL FROM 5,395' TO 5,431', 36' ROP= 48' WOB - 20K; RPM: 30; TQ= 6, 706 GPM = 3565 PSI UP WT= 250K; DN WT= 245K; RT WT= 250K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG. FLOW SHOW 33% LOSS RATE = 28 BBL/HR PUMPING 10 BBL 15#/BBL LCM SWEEPS. DOWN HOLE TEMP @ 5,431' = 140 DEG.
6:45	7:30	0.75	21INDR	CIRC	CNDHOL	P	CIRCULATE SAMPLE UP FOR MUD LOGGER AFTER ENCOUTERING A DRILLING BREAK AT 5,431' (ROP 109 FPH) SHALE, SAND AND CLAY CUTTING AT BOTTOMS UP.
7:30	9:15	1.75	21INDR	DRILL	RSS	P	DRILL FROM 5,431' TO 5,479', 48' ROP= 27' PARTIAL RETURNS LOST, LOSS RATE OF 200 BBL/HR. WOB - 20K; RPM: 30; TQ= 8, 715 GPM = 3460 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG. FLOW SHOW 33 TO 18% PUMPING 10 BBL 15#/BBL LCM SWEEPS.
9:15	10:15	1.00	21INDR	LCIRC	LCM	PT	PUMP AND SPOT 40 BBLS 30# LCM.
10:15	12:30	2.25	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 5,479' TO 5,004'. REMOVE ROTATING RUBBER. MONITOR WELL BORE, STATIC LOSS RATE 14 BBL/HR. CIRCULATE AT 710 GPM, 3,046 PSI. RECIPROCATING DRILL STRING. NO DYNAMIC LOSSES . SHUT DOWN PUMPING AND MONITOR WELL BORE, NO STATIC LOSSES. INSTALL ROTATING RUBBER.
12:30	13:30	1.00	21INDR	REAM	PRRM	PT	WASH AND REAM FROM 5,004' TO 5,479' AT 700 GPM, 2980 PSI. NO LOSSES WHILE REAMING BACK TO BOTTOM.
13:30	13:45	0.25	21INDR	DRILL	RSS	P	DRILL FROM 5,479' TO 5,487', 8' ROP= 32' FLOW SHOW WENT FROM 33% TO 0% WOB - 20K; RPM: 30; TQ= 4, 725 GPM = 3193 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
13:45	14:00	0.25	21INDR	LCIRC	LCM	PT	PUMP 20 BBLS LCM PILL AT 30#/BBL. LOWER PUMP RATE TO 590 GPM, 2298 PSI WHILE PUMPING LCM DOWN DRILL STRING. LOST 126 BBLS.
14:00	15:00	1.00	21INDR	DRILL	RSS	P	DRILL FROM 5,487' TO 5,505', 18' WITH PARTIAL RETURNS, FLOW SHOW RUNNING FROM 18% TO 28% PUMP 15 BBL LCM SWEEP 30#/BBL WOB - 20K; RPM: 30; TQ= 6, 720 GPM = 3210 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
15:00	16:00	1.00	21INDR	TRIP	DRILL	PT	BACK REAM OUT OF THE HOLE FROM 5,505' TO 5,057'. ENCOUNTERED 25K OVERPULL AND A SLIGHT PACKOFF AT 5,502'. REMOVE ROTATING RUBBER.
16:00	22:30	6.50	21INDR	CIRC	CNDFLD	PT	MONITOR WELL BORE. NO STATIC LOSS RATE. CIRCULATE AT 605 GPM, 1747 PSI. NO DYNAMIC LOSSES. BUILD SURFACE VOLUME. TOTAL LOSSES 747 BBLS FROM 06:00 TO 16:00 HOURS.
22:30	0:00	1.50	21INDR	RIGMT	REP	PT	CHANGE PUMPS. SWAB OUT IN #2 MUD PUMP.
Total Time		24.00					

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	02/11/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	44

Safety Incident?	N	**Days since Last RI:**	126.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	126.00	CLOUDY / COLD

Incident Comments:
No incidents reported last 24 hours. 5 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 9328 GALS. RIG FUEL USED = 3180 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 10
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 747
TOTAL MUD LOSS = 2316 BBLS

T 25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/12/2009

Report No: 46

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	16.66
Today's MD:	5,736.0 ft	Progress:	231.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	5,505.0 ft	Rot Hrs Today:	12.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	18.5 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	TERTIARY@5,100.0			Lithology:			
Current Ops:	DIRECTIONAL DRILL 12 1/4" HOLE FROM 5,505' TO 5736'						
24-Hr Summary:	D/DRILL, 5506 TO 5701' SPOT LCM PILL POOH TO 5068' MONITOR WELL, TIH D/DRILL TO 5736'						
24-Hr Forecast:	ATTEMPT TO CONTROLL MUD LOSSES AND DIRECTIONAL DRILL TOWARDS INTERMEDIATE TD.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	252.0/ 247.0 kip	Pump Rate:	330.7	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	250.0 kip	Pump Press:	3,045.0	Trip:		
Last BOP Press Test:	02/05/2009	Torq Off Btm:	3.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	6.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,630.0	19.40	4.15	5,598.35	296.1	24.9	295.7	2.35	2.26
5,536.0	17.28	6.10	5,509.13	266.6	22.2	266.2	0.00	0.00
5,442.0	15.65	7.01	5,418.99	240.2	19.2	239.8	0.00	0.00
5,346.0	13.99	9.08	5,326.19	215.8	15.8	215.6	1.54	1.53
5,251.0	12.54	9.88	5,233.72	194.3	12.2	194.1	0.94	0.94
5,157.0	11.66	9.86	5,141.81	174.9	8.8	174.8	0.68	0.56

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
4	12.50	26.50	231.0	447.0	18.5	16.9	10.0/20.0	30/40	0.924	426.9	215.2	1.3

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	20.0 lbm/bbl
Sample From:	PIT	pH:	9.5
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 5,736.0	Pf / Mf:	0.4 / 0.4
Density @ Temp:	10.20 / 95	Chlorides:	170,000
Rheology Temp:	95	Ca+ / K+:	/
Viscosity:	52.00	CaCl2:	
PV / YP:	13 / 19	Clom:	
Gels 10s/10m/30m:	10 / 18 / 25	Lime:	
API WL:	13.00	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	4.00 / 4.00	Carbonate:	
Oil / Water:	/ 96.0	Bicarbonate:	
Sand:	0.05	Form Loss:	1,050.0 / 3,204.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.00 / 36.28		

VG Meter: 7@3 / 8@6 / 19@100 / 25@200 / 32@300 / 45@600

Comments: RESUMED DRILLING AHEAD WITH SEEPAGE. PUMPED LCM SWEEPS THROUGH THE NIGHT WITH SOME EFFECT. AT 5701, EXPERIENCED LOSS OF RETURNS AT WHICH POINT SPOTTED 40

LAST OR CURRENT BHA

BHA No: 4 Bit No: 4 MD In: 5,124.0 ft

Purpose: MD Out: 5,920.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.72
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	27.76
MWD TOOL	8.500	2.123	1	31.17
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,322.09 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	12.00
DRILLSTAR HT	25 LB/SK	25.00
DYNAFIBER M	25 LB/SX	80.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	80.00
NEWEDGE	50 LB/SX	20.00
PHENOSEAL	50 LBS/SK	59.00
SALTGEL	50 LB/SX	77.00
SAWDUST	2000 LBS/SK	90.00
SEA MUD	50 LBS/SK	25.00
TAX	EACH	1.00

RECEIVED

FEB 2 4 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/12/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 46

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	21INDR	REAM	PRRM	PT	DOWN LINK POWER DRIVE TO 100%. INSTALL ROTATING RUBBER. WASH AND REAM FROM 5,057' TO 5,505'. NO LOSSES.
1:00	6:00	5.00	21INDR	DRILL	RSS	P	DRILL FROM 5,505' TO 5,590', 85' ROP= 17' WOB - 17K; RPM: 60; TQ= 4, 635 GPM = 2727 PSI UP WT= 247K; DN WT= 245K; RT WT= 245K FLOW 27% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG. LOST 84 BBLS.
6:00	8:00	2.00	21INDR	DRILL	RSS	P	DRILL FROM 5,590' TO 5,630', 40' ROP= 20' WOB - 17K; RPM: 30; TQ= 4, 660 GPM = 2988 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG. NO MUD LOST.
8:00	8:30	0.50	21INDR	DRILL	RSS	P	DOWN LINK POWER DRIVE FROM 100% TO 50%
8:30	11:00	2.50	21INDR	DRILL	RSS	P	DRILL FROM 5,630' TO 5694' 64' ROP 25.6' WOB - 16 T/ 20K; RPM: 30; TQ= 4, 657 GPM = 2827 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG. NO MUD LOST.
11:00	11:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
11:30	12:00	0.50	21INDR	DRILL	RSS	P	DRILL FROM 5,630'. PUMPING A 40 BBL LCM SWEEP AT 5,694'. DRILLED TO 5,701' TOTAL RETURNS WERE LOST AT 5,700', 71' ROP= 20'. ALLOW SWEEP TO CLEAR BIT. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 657 GPM = 2827 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
12:00	14:15	2.25	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 5,701' TO 5,068' SLOWLY. FIRST STAND OF DRILL PIPE STOOD BACK WAS ON A VACUUM. FILLING BACKSIDE THRU KILL LINE. MONITOR WELL BORE. MUD TO SURFACE AFTER PUMPING 96 BBLS. STATIC LOSS RATE OF 120 BBLS/HR.
14:15	15:30	1.25	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 5,068' TO 5,601'. NO PROBLEMS.
15:30	16:30	1.00	21INDR	LCIRC	LCM	PT	RECIPOCATE DRILL STRING WHILE MIXING 80 BBLS 40#/BBL LCM PILL.
16:30	17:00	0.50	21INDR	LCIRC	LCM	PT	PUMP 80 BBL 40#/BBL LCM PILL AT 518 GPM, 2104 PSI. PARITAL RETURNS 21% FLOW SHOW AFTER PUMPING 15 BBLS, CLEAR BIT OF LCM.
17:00	17:30	0.50	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 5,601' TO 5,157'. NO PROBLEMS.
17:30	20:00	2.50	21INDR	LCIRC	HEAL	PT	MONITOR WELL BORE. STATIC LOSS RATE 24 BBL/HR. CIRCULATE AT 650 GPM, 2831 PSI WITH NO DYNMATIC LOSSES. WELL BORE STATIC. TOTAL MUD LOST TO WELL BORE 952 BBLS.
20:00	21:30	1.50	21INDR	REAM	PRRM	PT	WASHED AND REAMED TO BOTTOM. LOST 50 BBLS MUD TO FORMATION

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/12/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 46

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
21:30	0:00	2.50	21INDR	DRILL	RSS	P	DRILL FROM 5701' TO 5736. PUMPED 3 40 BBL LCM SWEEPS 36' ROP= 14FPH. MUD LOSSES AT 60 BPH. LOST 180 BBLS MUD TO FORMATION. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 625 GPM = 2700 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 25% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	126.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	126.00	OVERCAST AT 15 DEGREES

Incident Comments:
No incidents reported last 24 hours. 4Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 14628 GALS. RIG FUEL USED = 2756 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 15
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 1050
TOTAL MUD LOSS = 3228 BBLS

T 25S R01W S-03 API-# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/13/2009
Report No: 47

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	17.66
Today's MD:	5,820.0 ft	Progress:	84.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	5,736.0 ft	Rot Hrs Today:	5.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	16.8 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	TERTIARY@5,100.0			Lithology:	SAND AND SHALE		
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 5820'						
24-Hr Summary:	D/DRILL, PULL UP TO 5180'. BUILD VOLUME, TIH, D/DRILL TO 5820'.						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE	
Str Wt Up/Dn:	252.0/ 247.0 kip
Str Wt Rot:	250.0 kip
Torq Off Btm:	5,000.0 ft-lbf
Torq On Btm:	3,000.0 ft-lbf

HYDRAULICS	
Pump Rate:	334.9
Pump Press:	3,192.0

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,851.0	18.48	9.49	5,806.23	370.8	31.3	370.2	3.91	-2.81
5,820.0	19.35	6.89	5,776.90	360.8	29.8	360.3	2.57	-1.95
5,756.0	20.60	3.77	5,716.75	339.1	27.8	338.6	0.96	0.95
5,630.0	19.40	4.15	5,598.35	296.1	24.9	295.7	2.35	2.26
5,536.0	17.28	6.10	5,509.13	266.6	22.2	266.2	0.00	0.00
5,442.0	15.65	7.01	5,418.99	240.2	19.2	239.8	0.00	0.00

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
4	5.00	31.50	84.0	531.0	16.8	16.9	12.0/20.0	25/45	0.924	436.5	218.7	1.4

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	20.0 lbm/bbl
Sample From:	PIT	pH:	9.5
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 5,820.0	Pf / Mf:	0.4 / 0.5
Density @ Temp:	10.10 / 98	Chlorides:	165,000
Rheology Temp:	98	Ca+ / K+:	/
Viscosity:	49.00	CaCl2:	
PV / YP:	16 / 19	Clom:	
Gels 10s/10m/30m:	8 / 18 / 25	Lime:	
API WL:	12.00	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	2.70 / 2.70	Carbonate:	
Oil / Water:	/ 97.3	Bicarbonate:	
Sand:	0.05	Form Loss:	1,201.0 / 4,405.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.70 / 24.49		

VG Meter: 5@3 / 6@6 / 1@100 / 28@200 / 35@300 / 51@600

Comments: DRILLED TO 5751. SPOTTED 80BBL 40LB/BBL PILL. PULLED 5 STANDS TO BUILD VOLUME BACK IN PITS. WENT BACK TO BOTTOM AND DRILLED TO 5782 AT WHICH POINT LOST RETURNS.

LAST OR CURRENT BHA

BHA No: 4 Bit No: 4 MD In: 5,124.0 ft
Purpose: MD Out: 5,920.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.72
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	27.76
MWD TOOL	8.500	2.123	1	31.17
STRING STABILIZER	12.125	2.178	1	5.31
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,322.09 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	6.00
DRILLSTAR HT	25 LB/SK	162.00
DYNAFIBER M	25 LB/SX	21.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	76.00
MICA FINE	50 LB/SX	184.00
NEW SWELL	50 LBS/SK	2.00
NEWEDGE	50 LB/SX	29.00
NEWPAC R	50 LB/SX	6.00
PHENOSEAL	50 LBS/SK	174.00
SALTGEL	50 LB/SX	591.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/13/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 47

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	21INDR	DRILL	RSS	P	DRILL FROM 5736' TO 5752'. PUMPED 1 40 BBL LCM SWEEPS ' ROP= 8 FPH. MUD LOSSES AT 80 BPH. LOST 160 BBLS MUD TO FORMATION. HOLE LOSSES INCREASED PULLED UP TO 5700'. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 625 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 25% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
2:00	4:00	2.00	21INDR	LCIRC	LCM	PT	SLOWED PUMP RATE TO 580 GPM, ESTABLISHED RETURNS TO 50% INCREASING 95%. CIRCULATED AND MONITORED HOLE LOSSES. LOSSES AT 50 BPH. LOST 200 BBL MUD TO FORMATION.
4:00	4:30	0.50	21INDR	LCIRC	LCM	PT	PUMPED 80 BBL 4O P/BBL LCM PILL THROUGH BIT.
4:30	5:30	1.00	21INDR	TRIP	COND	PT	PULL OUT OF THE HOLE FROM 5752' TO 5,131'. NO PROBLEMS.
5:30	6:00	0.50	21INDR	LCIRC	HEAL	PT	FILLED BACKSIDE WITH 18 BBL, MONITORING WELL.
6:00	10:00	4.00	21INDR	LCIRC	HEAL	PT	MONITOR WELL BORE FOR 10 MIN STATIC LOSS RATE 18 BBL/HR. SECOND STATIC LOSS RATE 16.8 BBL/HR. CIRCULATE AT 620 GPM, 2490 PSI WITH NO DYNMATIC LOSSES. BUILD SURFACE VOLUME TO 1,035 BBLS.
10:00	11:00	1.00	21INDR	TRIP	COND	PT	RUN IN THE HOLE FROM 5,131' TO 5,720' SLOWLY. WASH FROM 5,720' TO 5,752'. LOST 16 BBLS.
11:00	12:30	1.50	21INDR	DRILL	RSS	P	DRILL FROM 5752' TO 5,782'. PUMPED A TOTAL OF (3) 40 BBL 40#/BBL LCM SWEEPS, EACH TIME THE SWEEP STARTED OUT OF THE BIT THE PERCENTAGE OF FLOW INCREASED FROM 13% TO 25% AFTER EACH LCM SWEEP CLEARED THE BIT THE PERCENTAGE OF FLOW FELL OFF. RANGING FROM 12% TO 17%. PUMP AND SPOT 80 BBLS OF 60#/BBL LCM SWEEP/PILL ON BOTTOM. LOST 634 BBLS. WOB - 20 T/ 25K; RPM: 60; TQ= 4 T/ 9K, 625 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 3% T/ 25% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.3+ PPG. WT OUT 10.3+ PPG.
12:30	13:30	1.00	21INDR	TRIP	COND	PT	PULL OUT OF THE HOLE FROM 5,782' TO 5,150'. NO PROBLEM'S. TOOK 11.5 BBLS TO FILL THE HOLE.
13:30	14:00	0.50	21INDR	LCIRC	HEAL	PT	MONITOR WELL BORE FOR 10 MIN STATIC LOSS RATE 3 BBL/HR. SECOND STATIC LOSS RATE 6 BBL/HR. CIRCULATE AT 620 GPM, 2490 PSI WITH NO DYNMATIC
14:00	21:30	7.50	21INDR	LCIRC	HEAL	PT	CONTINUE TO CIRCULATE AT 620 GPM, 2,490 PSI. ROTATE AND RECIPOCATE DRILL STRING WHILE BUILDING SURFACE VOLUME.
21:30	22:30	1.00	21INDR	TRIP	COND	PT	INSTALL ROTATING HEAD AND TRIP IN HOLE.
22:30	0:00	1.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 5782' TO 5820'. 0 BBLS MUD TO FORMATION. . LCM CONTENT AT 30 LBS P/BBL. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 615 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 27% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	127.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	127.00	SNOW AT 20 DEGREES

Incident Comments:

No incidents reported last 24 hours. 4 Safe work permits issued.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	02/13/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	47

Other Remarks: RIG FUEL ON HAND = 11660 GALS. RIG FUEL USED = 2768 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 25
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 1201
TOTAL MUD LOSS = 4429 BBLS

T25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/14/2009

Report No: 48

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	18.66
Today's MD:	5,920.0 ft	Progress:	100.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	5,820.0 ft	Rot Hrs Today:	2.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	40.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation: TERTIARY@5,100.0 Lithology: SAND,SILT, LIMESTONE

Current Ops: TRIPPING IN HOLE AT 3500'.

24-Hr Summary: D/DRILL FROM 5820' TO 5920'. TRIPPED FOR DIRECTIONAL DRILLING ASSEMBLY.

24-Hr Forecast: DIRECTIONAL DRILL TOWARDS INTERMEDIATE TD OF 11000' =/-.

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	255.0/ 245.0 kip
Str Wt Rot:	250.0 kip
Torq Off Btm:	4.0 ft-lbf
Torq On Btm:	9.0 ft-lbf

HYDRAULICS

Pump Rate:	648.8
Pump Press:	1,500.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
5,851.0	18.48	9.49	5,806.23	370.8	31.3	370.2	3.91	-2.81
5,820.0	19.35	6.89	5,776.90	360.8	29.8	360.3	2.57	-1.95
5,756.0	20.60	3.77	5,716.75	339.1	27.8	338.6	0.96	0.95
5,630.0	19.40	4.15	5,598.35	296.1	24.9	295.7	2.35	2.26
5,536.0	17.28	6.10	5,509.13	266.6	22.2	266.2	0.00	0.00
5,442.0	15.65	7.01	5,418.99	240.2	19.2	239.8	0.00	0.00

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,920.0	6,170.0	1-1-CT-S	D-1-CT-BHA
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
4	2.50	34.00	100.0	631.0	40.0	18.6	15.0/20.0	30/60	0.924	460.1	225.6	1.5

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	20.0 lbm/bbl
Sample From:	PIT	pH:	9.0
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 5,920.0	Pf / Mf:	0.3 / 0.4
Density @ Temp:	10.40 / 75	Chlorides:	164,000
Rheology Temp:	75	Ca+ / K+:	/
Viscosity:	50.00	CaCl2:	
PV / YP:	17 / 19	Clom:	
Gels 10s/10m/30m:	9 / 19 / 24	Lime:	
API WL:	12.50	ES:	
HTHP WL:	20.00	ECD:	10.70
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	2.80 / 2.80	Carbonate:	
Oil / Water:	/ 97.2	Bicarbonate:	
Sand:	0.05	Form Loss:	0.0 / 4,405.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.80 / 25.40		

VG Meter: 8@3 / 9@6 / 19@100 / 29@200 / 36@300 / 53@600

Comments: DRILLED TO 5920 WHILE HAVING NO LOSSES. TOOH WITH NO PROBLEMS TO CHANGE OUT MOTOR. MADE CHANGES AND CURRENTLY TIH AT 2154.

LAST OR CURRENT BHA

BHA No: 5 Bit No: RR4 MD In: 5,920.0 ft

Purpose: DRILL INTRMEDIATE SECTION MD Out: 6,170.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.82
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	28.20
MWD TOOL	8.500	2.123	1	30.56
STRING STABILIZER	12.125	2.178	1	5.14
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,321.85 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
DRILLSTAR HT	25 LB/SK	12.00
DYNAFIBER M	25 LB/SX	157.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	40.00
MICA FINE	50 LB/SX	154.00
NEW GEL HY	50 LBS/SK	70.00
NEW SWELL	50 LBS/SK	1.00
NEWEDGE	50 LB/SX	20.00
PHENOSEAL	50 LBS/SK	107.00
SALTGEL	50 LB/SX	50.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/14/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 48

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 5820' TO 5885'. 65' AT 32.5 FPH 0 BBLS MUD TO FORMATION. . LCM CONTENT AT 25 LBS P/BBL. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 615 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 27% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG.
2:00	2:30	0.50	21INDR	DRILL	RSS	P	DOWN LINK TO ROTARY STEERABLE.
2:30	3:00	0.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 5885' TO 5920'. 35' AT 70 FPH 0 BBLS MUD TO FORMATION. . LCM CONTENT AT 20 LBS P/BBL. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 615 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 27% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.1+ PPG. WT OUT 10.1+ PPG.
3:00	6:00	3.00	21INDR	CIRC	CNDHOL	PT	CIRCULATE DUE TO ROTARY STEERABLE FAILURE. WORK WITH SLUMBERGER DIRECTIONAL DRILLING TEAM FOR RECOVERY PLAN.
6:00	7:00	1.00	21INDR	CIRC	CNDHOL	PT	CIRCULATE DUE TO ROTARY STEERABLE FAILURE. WORK WITH SLUMBERGER DIRECTIONAL DRILLING TEAM FOR RECOVERY PLAN.
7:00	11:15	4.25	21INDR	TRIP	DRILL	PT	PUMPING AND BACK REAMING OUT OF THE HOLE FROM 5,920' TO 2,799'. NO PROBLEMS.
11:15	11:45	0.50	21INDR	TRIP	DRILL	PT	PULL ROTATING RUBBER AND MONITOR WELL BORE, STATIC.
11:45	13:30	1.75	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 2,799' TO 1,322'.
13:30	18:00	4.50	21INDR	TRIP	BHA	PT	HANDLE BHA, SURFACE TEST POWER DRIVE, PADS NOT FUNCTIONING. LAY DOWN MWD, MUD MOTOR, BREAK BIT AND LAY DOWN POWER DRIVE.
18:00	21:00	3.00	21INDR	TRIP	BHA	PT	PICK UP NEW DIRECTIONAL DRILLING ASSEMBLY.
21:00	23:00	2.00	21INDR	TRIP	DRILL	PT	TRIPPED IN HOLE TO 2900'.
23:00	23:30	0.50	21INDR	CIRC	CNDHOL	PT	CIRCULATED BOTTOMS UP
23:30	0:00	0.50	21INDR	TRIP	BHA	PT	TRIPPED IN HOLE CURRENT DEPTH 3500'
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	128.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	128.00	CLEAR AT 15 DEGREES

Incident Comments:
No incidents reported last 24 hours. 3 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 9328 GALS. RIG FUEL USED = 2332 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 25
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 0
TOTAL MUD LOSS = 4429 BBLS

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/15/2009
Report No: 49

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	19.66
Today's MD:	6,170.0 ft	Progress:	250.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	5,920.0 ft	Rot Hrs Today:	6.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	38.5 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	TERTIARY@5,100.0			Lithology:	SAND,SILT, LIMESTONE		
Current Ops:	LAY DOWN ROTARY STEERABLE TOOL.						
24-Hr Summary:	D/DRILLED FROM 5920' TO 6170'. CIRCULATE, POOH LAY DOWN DIRECTIONAL DRILLING ASSEMBLY.						
24-Hr Forecast:	PICK UP 1.83 BEND DOWN HOLE MOTOR, TRIP IN HOLE, DRILL TOWARDS INTERMEDIATE TD OF +/- 11000'.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	252.0/ 247.0 kip	Pump Rate:	694.9	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	250.0 kip	Pump Press:	1,798.0	Trip:		
Last BOP Press Test:	02/05/2009	Torq Off Btm:	4,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	6,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
6,103.0	15.42	24.44	6,047.56	439.7	52.8	438.9	1.69	-0.88
6,009.0	16.25	19.49	5,957.13	416.0	43.3	415.2	1.90	-1.16
5,914.0	17.35	14.52	5,866.18	389.7	35.3	389.1	3.04	-1.79
5,851.0	18.48	9.49	5,806.23	370.8	31.3	370.2	3.91	-2.81
5,820.0	19.35	6.89	5,776.90	360.8	29.8	360.3	2.57	-1.95
5,756.0	20.60	3.77	5,716.75	339.1	27.8	338.6	0.96	0.95

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,920.0	6,170.0	1-1-CT-S	D-1-CT-BHA
4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,124.0	5,920.0	1-1-NO-A	D-I-NO-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
RR4	6.50	6.50	250.0	250.0	38.5	38.5	15.0/20.0	25/30	0.924	542.0	243.7	1.9

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	17.5 lbm/bbl
Sample From:	PIT	pH:	9.0
Mud Type:		Pm / Pom:	
Time / MD:	0:01 / 6,170.0	Pf / Mf:	0.2 / 0.4
Density @ Temp:	10.20 / 77	Chlorides:	153,000
Rheology Temp:	77	Ca+ / K+:	/
Viscosity:	52.00	CaCl2:	
PV / YP:	14 / 23	Clom:	
Gels 10s/10m/30m:	11 / 18 / 25	Lime:	
API WL:	12.00	ES:	
HTHP WL:	18.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	3.60 / 3.60	Carbonate:	
Oil / Water:	/ 96.4	Bicarbonate:	
Sand:	0.05	Form Loss:	197.0 / 4,602.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.60 / 32.65		

VG Meter: 9@3 / 10@6 / 23@100 / 29@200 / 37@300 / 51@600

Comments: DRILLED TO 6170 WHILE HAVING MILD LOSSES. TOOH WITH NO PROBLEMS TO CHANGE OUT MOTOR.
DAILY LOSSES - 197
INTERVAL LOSSES - 4626

MUD PRODUCTS

Product	Units	Qty Used
60 \ 40	50 LBS/SK	80.00
CAUSTIC SODA	50 LB/SX	19.00
DRILLSTAR HT	25 LB/SK	50.00
DYNAFIBER M	25 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	19.00
MICA FINE	50 LB/SX	86.00
NEW GEL	100 LBS/SK	4.00
NEW GEL HY	50 LBS/SK	34.00
NEW SWELL	50 LBS/SK	1.00
NEWEDGE	50 LB/SX	12.00

LAST OR CURRENT BHA

BHA No: 5 Bit No: RR4 MD In: 5,920.0 ft
Purpose: DRILL INTRMEDIATE SECTION MD Out: 6,170.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.250	3.250	1	13.82
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	9.000	3.000	1	2.98
POSITIVE DISPLACEMENT MOTOR	9.160	3.000	1	28.20
MWD TOOL	8.500	2.123	1	30.56
STRING STABILIZER	12.125	2.178	1	5.14
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13

Total Length: 1,321.85 ft Wt below Jars:

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OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/15/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 49

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	21INDR	TRIP	DRILL	PT	TRIPPED IN HOLE TO 5100'.
1:00	1:30	0.50	21INDR	CIRC	CNDHOL	PT	CIRCULATED BOTTOMS UP.
1:30	2:30	1.00	21INDR	TRIP	DRILL	PT	TRIPPED IN HOLE TO 5920'.
2:30	3:00	0.50	21INDR	DRILL	RSS	PT	BREAK CIRCULATION AND DOWN LINKED RSS
3:00	4:00	1.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 5920' TO 5980'. 60' AT 60 FPH 0 BBLS MUD TO FORMATION. . LCM CONTENT AT 20 LBS P/BBL. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 700 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
4:00	4:30	0.50	21INDR	RIGMT	SRVRIG	P	PERFORMED RIG SERVICE
4:30	6:00	1.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 5980' TO 6040'. 60' AT 40 FPH 0 BBLS MUD TO FORMATION. . LCM CONTENT AT 20 LBS P/BBL. WOB - 16 T/ 20K; RPM: 30; TQ= 4, 700 GPM = 2800 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 RPM WT IN 10.2+ PPG. WT OUT 10.2+ PPG.
6:00	9:30	3.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 6,040' TO 6,137'. 97' AT 27.7 FPH AVERAGE LOSS RATE 26 BBL/HR. LCM CONTENT AT 10 LBS P/BBL. PUMP 40 BBL 30#/BBL LCM SWEEP. WOB - 16 T/ 20K; RPM: 25; TQ= 4, 702 GPM = 3596 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL .8 STICK SLIP > 1.5 RPM WT IN 10.3+ PPG. WT OUT 10.3+ PPG.
9:30	10:00	0.50	21INDR	DRILL	RSS	P	DOWN LINK POWER DRIVE TO 100%
10:00	10:30	0.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 6,137' TO 6,170 '. 33 ' AT 66.6 FPH. POWER DRIVE NOT REACTING TO DOWN LINKS OF 75% OR 100%. AVERAGE LOSS RATE 26 BBL/HR. LCM CONTENT AT 10 LBS P/BBL. PUMP 40 BBL 30#/BBL LCM SWEEP. WOB - 16 T/ 20K; RPM: 25; TQ= 4, 702 GPM = 3596 PSI UP WT= 252K; DN WT= 247K; RT WT= 250K FLOW 30% SHOCKS & LAT VIBS: >LEVEL .8 STICK SLIP > 1.5 RPM WT IN 10.3+ PPG. WT OUT 10.3+ PPG. TOTAL MUD LOSS 197 BBLS.
10:30	12:30	2.00	21INDR	CIRC	CNDFLD	PT	CIRCULATE COURSE LCM MATERIAL FROM MUD SYSTEM. PUMP AND SPOT 80 BBL, 40#/BLL LCM PILL. MUD WT IN 10.2 PPG, OUT 10.2 PPG.
12:30	13:00	0.50	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 6,170' TO 5,627'. REMOVE ROTATING RUBBER AND MONITOR WELL BORE. STATIC. INSTALL ROTATING RUBBER.
13:00	17:00	4.00	21INDR	TRIP	DRILL	PT	PUMPING AND BACK REAMING OUT OF THE HOLE FROM 5,627' TO 2,854' AT 640 GPM. NO PROBLEMS.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/15/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 49

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
17:00	17:30	0.50	21INDR	TRIP	DRILL	PT	REMOVE ROTATING RUBBER. MONITOR WELL BORE. STATIC.
17:30	22:30	5.00	21INDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 2,854' TO SURFACE. LAID DOWN DH. MOTOR AND MWD.
22:30	23:30	1.00	21INDR	TRIP	DRILL	PT	FUNCTION TESTED ROTARY STEERABLE TOOL AT SURFACE. LAID DOWN ROTARY STEERABLE TOOL.
23:30	0:00	0.50	21INDR	WAIT	WOEQ	PT	WAITED ON ADJUSTABLE DOWN HOLE MOTOR
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	129.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	129.00	CLEAR AT 15 DEGREES

Incident Comments:
No incidents reported last 24 hours. 2 Safe work permits issued.

Other Remarks:

RIG FUEL ON HAND = 10812 GALS. RIG FUEL USED =2756 GALS. RECEIVED 4,000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 25
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 197
TOTAL MUD LOSS = 4626 BBLS

T25S R01W S-03 API #43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/16/2009

Report No: 50

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	20.66
Today's MD:	6,354.0 ft	Progress:	184.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	6,170.0 ft	Rot Hrs Today:	12.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	15.3 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	TERTIARY@5,100.0			Lithology:	SAND,SHALE,SILT		
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 6354'						
24-Hr Summary:	W/ON DH MOTOR, TRIP IN HOLE WITH D/DRILLING ASSY. D/DRILL FROM 6170' TO6354'						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25"INTERMEDIATE HOLE TOWARDS TD OF 11000' +/-.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	268.0/ 236.0 kip	Pump Rate:	699.1	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	254.0 kip	Pump Press:	3,081.0	Trip:		
Last BOP Press Test:	02/05/2009	Torq Off Btm:	6,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	10,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
6,292.0	18.10	32.15	6,229.05	485.4	79.1	484.1	2.62	2.61
6,198.0	15.65	31.37	6,139.10	462.2	64.7	461.1	1.97	0.24
6,103.0	15.42	24.44	6,047.56	439.7	52.8	438.9	1.69	-0.88
6,009.0	16.25	19.49	5,957.13	416.0	43.3	415.2	1.90	-1.16
5,914.0	17.35	14.52	5,866.18	389.7	35.3	389.1	3.04	-1.79
5,851.0	18.48	9.49	5,806.23	370.8	31.3	370.2	3.91	-2.81

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
5	12.250	REED-HYCALOG	RSX619M-A18	217811	M323	6x14	6,170.0	7,121.0	2-6-WT-S	D-1-HC-BHA
RR4	12.250	SECURITY DBS	FM3663Z	11118065	M323	5x14, 1x15	5,920.0	6,170.0	1-1-CT-S	D-1-CT-BHA

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
5	12.00	12.00	184.0	184.0	15.3	15.3	10.0/20.0	30/45	0.902	565.8	249.0	2.0

MUD DATA -

Engineer:	scott jones / bret goad	MBT:	17.5 lbm/bbl
Sample From:		pH:	9.0
Mud Type:		Pm / Pom:	
Time / MD:	0:01 / 6,170.0	Pf / Mf:	0.2 / 0.4
Density @ Temp:	10.20 / 87	Chlorides:	153,000
Rheology Temp:	87	Ca+ / K+:	/
Viscosity:	49.00	CaCl2:	
PV / YP:	12 / 20	Clom:	
Gels 10s/10m/30m:	12 / 18 / 2	Lime:	
API WL:	13.50	ES:	
HTHP WL:	18.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	4.00 / 4.00	Carbonate:	
Oil / Water:	/ 96.0	Bicarbonate:	
Sand:	0.05	Form Loss:	12.0 / 4,614.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.00 / 36.28		

VG Meter: 9@3 / 10@6 / 19@100 / 28@200 / 32@300 / 44@600

Comments: CHANGED OUT MOTOR AND TIH WITH NO PROBLEMS. DRILLED TO 6320 WITH NO PROBLEMS.

LAST OR CURRENT BHA

BHA No: 6 Bit No: 5 MD In: 6,170.0 ft

Purpose: DRILL 2-1/4" HOLE. MD Out: 7,121.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
STEERABLE MOTOR	7.750	3.250	1	27.65
MWD TOOL	8.500	2.123	1	30.56
STRING STABILIZER	12.125	2.178	1	5.14
NON-MAG DRILL COLLAR	8.000	2.142	1	30.03
DRILL COLLAR	7.142	2.230	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.160	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.160	21	638.13
DRILL PIPE	4.500	3.750	182	4,868.62

Total Length: 1,301.38 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	4.00
DRILLSTAR HT	25 LB/SK	15.00
DYNAFIBER M	25 LB/SX	10.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LIME	50 LB/SX	10.00
LT PHALT	50 LB/SX	20.00
MICA FINE	50 LB/SX	48.00
NEW GEL	100 LBS/SK	20.00
NEW SWELL	50 LBS/SK	1.00
SEA MUD	50 LBS/SK	30.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/16/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 50

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	21INDR	WAIT	WOEQ	PT	WAITING ADJUSTABLE DOWN HOLE MOTOR.
3:00	5:30	2.50	21INDR	TRIP	DRILL	PT	PICKED UP DH MOTOR, ADJUSTED MOTOR TO 1.83 BEND. PICKED UP 12.25" PDC BIT, SCRIBED BHA AND STARTED TRIPPING IN HOLE.
5:30	7:30	2.00	21INDR	TRIP	BHA	PT	RUN IN THE HOLE WITH BHA #6 TO 1301'.
7:30	8:30	1.00	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 1,301' TO 3,001'
8:30	9:30	1.00	21INDR	CIRC	CNDFLD	PT	CIRCULATE BOTTOM'S UP. 715 GPM, 2,760 PSI.
9:30	11:30	2.00	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 3,001' TO 6,055'. FILLING PIPE AT 4,517', 5,507'. NO PROBLEMS. NO MUD LOST.
11:30	12:00	0.50	21INDR	REAM	PRRM	PT	WASH AND REAM FROM 6,055' TO 6,170' AS A PRECATIONARY MEASURE. 710 GPM, 3,414 PSI, 35 RPM, 31% FLOW. NO MUD LOST.
12:00	18:00	6.00	21INDR	DRILL	ROTDIR	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 6,170' TO 6,260'. 90 ' AT 15 FPH. . LCM CONTENT AT 6 LBS P/BBL. WOB - 5 T/ 12K; RPM: 30; TQ= 4, 704 GPM = 3295 PSI UP WT= 265K; DN WT= 250K; RT WT= 255K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 WT IN 10.2+ PPG. WT OUT 10.2+ PPG. NO FLUID LOSS TO WELL BORE.
18:00	0:00	6.00	21INDR	DRILL	ROTDIR	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 6,260' TO 6354'. 94 ' AT 15.6 FPH. SLIDE DRILL 35 % ROTATE 65% LCM CONTENT AT 4 LBS P/BBL. WOB - 5 T/ 12K; RPM: 30; TQ= 4, 704 GPM = 3295 PSI UP WT= 265K; DN WT= 250K; RT WT= 255K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP > 0 WT IN 10.2+ PPG. WT OUT 10.2+ PPG. NO FLUID LOSS TO WELL BORE.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	130.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	130.00	SNOW AT 16 DEGREES

Incident Comments:
No incidents reported last 24 hours. 2 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 14448 GALS. RIG FUEL USED = 2756 GALS. RECEIVED 4000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 6
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 0
TOTAL MUD LOSS = 4638 BBLS

T 25S R 01W S-03 API # 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/24/2009

Report No: 58

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	28.66
Today's MD:	7,943.0 ft	Progress:	60.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	7,883.0 ft	Rot Hrs Today:	6.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	10.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation:	ARAPIEN SHALE@7,485.0 Lithology: SAND AND SHALE
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 7943'
24-Hr Summary:	FINISHED TRIPPING IN HOLE, REAMED 7410' TO 7883' DRILLED FROM 7883' TO 7943'..
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	340.0/ 255.0 kip	Pump Rate:	644.7	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	299.0 kip	Pump Press:	3,396.0	Trip:		
Last BOP Press Test:	02/05/2009	Torq Off Btm:	6,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	12,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
7,913.0	9.92	5.38	7,763.09	982.7	167.9	979.9	0.94	-0.92
7,721.0	11.68	3.06	7,574.50	946.8	165.3	944.1	1.74	-1.71
7,626.0	13.30	4.66	7,481.75	926.3	163.9	923.6	1.22	-1.22
7,531.0	14.46	4.65	7,389.52	903.6	162.0	900.9	1.38	-1.36
7,437.0	15.74	5.53	7,298.77	879.2	159.8	876.6	1.33	-1.33
7,342.0	17.00	5.12	7,207.62	852.5	157.4	850.0	1.66	-1.65

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF
6	12.250	REED-HYCALOG	RSX619M-A18	218122	M422	6x14	7,121.0	7,883.0	2-8-RO-G	X-1-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	6.00	6.00	60.0	60.0	10.0	10.0	10.0/25.0	25/35	0.778	659.4	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 7,883.0	Pf / Mf:	0.1 / 0.5
Density @ Temp:	10.25 / 131	Chlorides:	138,000
Rheology Temp:	131	Ca+ / K+:	/
Viscosity:	51.00	CaCl2:	
PV / YP:	13 / 19	Clom:	
Gels 10s/10m/30m:	11 / 28 / 23	Lime:	
API WL:	9.60	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	5.50 / 5.50	Carbonate:	
Oil / Water:	/ 94.5	Bicarbonate:	
Sand:	0.05	Form Loss:	40.0 / 5,760.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	5.50 / 49.89		

VG Meter: 9@3 / 10@6 / 19@100 / 25@200 / 32@300 / 45@600

Comments: CHANGED OUT BIT AND BHA AND BEGAN TIH. REAMED FROM 7375 BACK TO BOTTOM AND RESUMES DRILLING OPERATIONS WITH NO PROBLEMS.

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft

Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
DRILLSTAR HT	25 LB/SK	14.00
DYNAFIBER M	25 LB/SX	2.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	4.00
NEW CARB M	50 LB/SX	26.00
NEW GEL	100 LBS/SK	22.00
NEW PHPA	5 GAL	1.00
PHENOSEAL	50 LBS/SK	5.00
SALTGEL	50 LB/SX	50.00
SAWDUST	2000 LBS/SK	5.00
SEA MUD	50 LBS/SK	11.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/24/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 58

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:30	3.50	21INDR	TRIP	BHA	P	PICKED UP DIRECTIONAL DRILLING ASSEMBLY.
3:30	6:00	2.50	21INDR	TRIP	DRILL	P	TRIPPED IN HOLE TO 2700'.
6:00	8:30	2.50	21INDR	RIGMT	SRVRIG	P	SLIP AND CUT 100' DRILL LINE. TEST MWD TOOL, GOOD TEST.
8:30	10:30	2.00	21INDR	TRIP	DRILL	P	RIH TO 5971'
10:30	11:00	0.50	21INDR	SRFEQ	RIGUP	P	INSTALLED ROTATING HEAD RUBBER. BROKE CIRCULATION.
11:00	12:30	1.50	21INDR	TRIP	DRILL	P	RIH TO 7374' WASH THROUGH TIGHT SPOT @ 6640'
12:30	18:00	5.50	21INDR	REAM	RMTGT	P	WASH AND REAM FROM 7374' TO 7883' 650 GPM 3100 PSI, 10-15 K TORQUE, WOB 2-4 K. TOP DRIVE RPM 50, BIT RPM 140. 20' UNDERGAUGE HOLE.
18:00	0:00	6.00	21INDR	DRILL	RSS	P	BREAK IN BIT. DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 7883' TO 7943' 60' AT 10 FPH. DRILLING WITH RSS. LOST BBLS 46 MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB - 10/25 11K ; RPM: 27 ; TQ= 11, 650 GPM = 3275 PSI UP WT= 340K; DN WT= 255K; RT WT= 299K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	138.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	138.00	CLEAR AT 18 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 10812 GALS. RIG FUEL USED = 2521 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 8
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 40
TOTAL MUD LOSS = 5738 BBL

T 25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/25/2009
Report No: 59

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	29.66
Today's MD:	8,166.0 ft	Progress:	223.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	7,943.0 ft	Rot Hrs Today:	23.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	9.7 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 8166'						
24-Hr Summary:	DIRECTIONAL DRILLING TO 8166', CLEAN & REPAIR DP SCREENS						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	335.0/ 292.0 kip
Str Wt Rot:	305.0 kip
Torq Off Btm:	10,500.0 ft-lbf
Torq On Btm:	11,000.0 ft-lbf

HYDRAULICS

Pump Rate:	627.9
Pump Press:	3,513.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	3
Contractor Personnel:	25
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
8,101.0	8.74	5.25	7,948.52	1,013.5	170.8	1,010.7	0.93	-0.93
8,006.0	9.62	5.69	7,854.74	998.4	169.4	995.6	0.33	-0.32
7,913.0	9.92	5.38	7,763.09	982.7	167.9	979.9	0.94	-0.92
7,721.0	11.68	3.06	7,574.50	946.8	165.3	944.1	1.74	-1.71
7,626.0	13.30	4.66	7,481.75	926.3	163.9	923.6	1.22	-1.22
7,531.0	14.46	4.65	7,389.52	903.6	162.0	900.9	1.38	-1.36

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	23.00	29.00	223.0	283.0	9.7	9.8	18.0/28.0	27/42	0.778	656.2	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 8,166.0	Pf / Mf:	0.1 / 0.5
Density @ Temp:	10.20 / 122	Chlorides:	138,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	50.00	CaCl2:	
PV / YP:	13 / 21	Clom:	
Gels 10s/10m/30m:	13 / 19 / 25	Lime:	
API WL:	9.80	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 5.00	Carbonate:	
Oil / Water:	/ 95.0	Bicarbonate:	
Sand:	0.05	Form Loss:	212.0 / 5,972.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	5.00 / 48.00		

VG Meter: 11@3 / 13@6 / 21@100 / 28@200 / 35@300 / 49@600

Comments: DRILLED FROM 7922 TO 8166 WITH NO PROBLEMS. ADDING VARIOUS SIZED LCM INTO SUCTION FOR SEEPAGE CONTROL. CURRENTLY DRILLING AHEAD WITH NO PROBLEMS.

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft
Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
BUSAN	40 LB/SX	4.00
CAUSTIC SODA	50 LB/SX	19.00
DRILLSTAR HT	25 LB/SK	46.00
DRILLTHIN	25 LB/SX	2.00
DRUM DISPOSAL		2.00
DYNAFIBER M	25 LB/SX	24.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LIME	50 LB/SX	2.00
LT PHALT	50 LB/SX	10.00
MICA FINE	50 LB/SX	40.00
NEW CARB M	50 LB/SX	7.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	02/25/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	59

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	23:00	23.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 7943' TO 8166' 223' AT 9.7 FPH. DRILLING WITH RSS. LOST BBLS 40 MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB - 10/25 11K ; RPM: 27 ; TQ= 11, 650 GPM = 3275 PSI UP WT= 335K; DN WT= 232K; RT WT= 305K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
23:00	0:00	1.00	21INDR	DRILL	RSS	PT	CLEAN & REPAIR DP SCREENS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	139.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	139.00	CLEAR 28 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 11660 GALS. RIG FUEL USED = 3152 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 8
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 212
TOTAL MUD LOSS = 6121 BBL

T25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/26/2009

Report No: 60

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	30.66
Today's MD:	8,356.0 ft	Progress:	190.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	8,166.0 ft	Rot Hrs Today:	23.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	8.1 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 8356'						
24-Hr Summary:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE SECTION						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	335.0/ 287.0 kip	Pump Rate:	627.9
Str Wt Rot:	314.0 kip	Pump Press:	3,260.0
Torq Off Btm:	5,000.0 ft-lbf		
Torq On Btm:	11,000.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	3
Contractor Personnel:	25
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
8,292.0	6.42	3.16	8,137.82	1,038.7	172.7	1,035.9	1.32	-1.32
8,197.0	7.67	3.98	8,043.54	1,027.1	171.9	1,024.3	1.13	-1.11
8,101.0	8.74	5.25	7,948.52	1,013.5	170.8	1,010.7	0.93	-0.93
8,006.0	9.62	5.69	7,854.74	998.4	169.4	995.6	0.33	-0.32
7,913.0	9.92	5.38	7,763.09	982.7	167.9	979.9	0.94	-0.92
7,721.0	11.68	3.06	7,574.50	946.8	165.3	944.1	1.74	-1.71

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	23.50	52.50	190.0	473.0	8.1	9.0	24.0/29.0	20/42	0.778	656.2	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.8
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 8,355.0	Pf / Mf:	0.2 / 0.7
Density @ Temp:	10.20 / 125	Chlorides:	145,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	55.00	CaCl2:	
PV / YP:	14 / 19	Clom:	
Gels 10s/10m/30m:	9 / 14 / 18	Lime:	
API WL:	11.50	ES:	
HTHP WL:		ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.40	Carbonate:	
Oil / Water:	/ 95.0	Bicarbonate:	
Sand:	0.05	Form Loss:	241.0 / 6,213.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.40 / 39.00		

VG Meter: 8@3 / 10@6 / 20@100 / 28@200 / 35@300 / 50@600

Comments: DRILLED FROM 8166 TO 8355 WITH NO HOLE PROBLEMS. LOST 8-10 BBLS/HOUR DOWN HOLE DUE TO SEEPAGE. TREATED SEEPAGE WITH CONSTANT ADDITIONS OF 5-10 SXS/HOUR

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft

Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	19.00
DRILLSTAR HT	25 LB/SK	45.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LIME	50 LB/SX	4.00
LT PHALT	50 LB/SX	17.00
MICA FINE	50 LB/SX	51.00
NEW CARB M	50 LB/SX	4.00
PHENOSEAL	50 LBS/SK	29.00
SALTGEL	50 LB/SX	40.00
SEA MUD	50 LBS/SK	14.00
SHRINK WRAP	EA.	21.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 02/26/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 60

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	16:30	16.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8166' TO 8307' 141' AT 8.6 FPH. DRILLING WITH RSS. LOST 141BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 20-25 11K ; RPM: 27 ; TQ= 11, 650 GPM = 3290 PSI UP WT= 335K; DN WT= 232K; RT WT= 305K FLOW 29% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
16:30	17:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG & TOP DRIVE, PUMP UP WEIGHT INDICATOR
17:00	0:00	7.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8307' TO 8356' 49' AT 7 FPH. DRILLING WITH RSS. LOST 100 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 25-30 11K ; RPM: 20-38 ; TQ= 11, 650 GPM = 3290 PSI UP WT= 335K; DN WT= 232K; RT WT= 305K FLOW 29% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
Total Time	24.00						

Safety Incident?	N	**Days since Last RI:**	140.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	140.00	CLEAR 26 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 11872 GALS. RIG FUEL USED = 3793 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 7
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 241
TOTAL MUD LOSS = 6362 BBL

T25S R01W S-03 API # 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 02/27/2009

Report No: 61

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	31.66
Today's MD:	8,538.0 ft	Progress:	182.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	8,356.0 ft	Rot Hrs Today:	23.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	7.7 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 8538'						
24-Hr Summary:	SERVICE RIG, DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE SECTION						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	340.0/ 315.0 kip	Pump Rate:	627.9
Str Wt Rot:	328.0 kip	Pump Press:	3,370.0
Torq Off Btm:	7,000.0 ft-lbf		
Torq On Btm:	11,000.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
8,482.0	4.15	3.00	8,327.00	1,056.2	173.4	1,053.4	1.22	-1.21
8,387.0	5.30	1.52	8,232.32	1,048.4	173.1	1,045.6	1.19	-1.18
8,292.0	6.42	3.16	8,137.82	1,038.7	172.7	1,035.9	1.32	-1.32
8,197.0	7.67	3.98	8,043.54	1,027.1	171.9	1,024.3	1.13	-1.11
8,101.0	8.74	5.25	7,948.52	1,013.5	170.8	1,010.7	0.93	-0.93
8,006.0	9.62	5.69	7,854.74	998.4	169.4	995.6	0.33	-0.32

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	23.50	76.00	182.0	655.0	7.7	8.6	28.0/40.0	11/42	0.778	656.2	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.7
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 8,538.0	Pf / Mf:	0.1 / 0.8
Density @ Temp:	10.20 / 139	Chlorides:	154,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	46.00	CaCl2:	
PV / YP:	13 / 20	Clom:	
Gels 10s/10m/30m:	11 / 19 / 17	Lime:	
API WL:	11.00	ES:	
HTHP WL:	21.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 3.90	Carbonate:	
Oil / Water:	/ 96.0	Bicarbonate:	
Sand:	0.05	Form Loss:	249.0 / 6,462.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.90 / 36.00		

VG Meter: 7@3 / 8@6 / 19@100 / 25@200 / 33@300 / 46@600

Comments: DRILLED FROM 8355 TO 8538 WITH NO HOLE PROBLEMS. LOST 8-12BBL/HOUR DOWN HOLE TO SEEPAGE. TREATED HOLE LOSSES WITH CONTINUAL MIXING OF VARIOUS

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft

Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
DRILLSTAR HT	25 LB/SK	35.00
DYNAFIBER M	25 LB/SX	25.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	13.00
MICA FINE	50 LB/SX	15.00
NEW CARB C	50 LB/SX	25.00
NEW CARB M	50 LB/SX	5.00
NEW PHPA	5 GAL	5.00
NEWEDGE	50 LB/SX	7.00
NOFOAM X	5 GAL/CN	5.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1	**Date:**	02/27/2009
Prim. Reason:	ORIG DRILL DIR	USA	**Report No:**	61

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG AND TOP DRIVE
0:30	0:00	23.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8356' TO 8538' 182' AT 7.8 FPH. DRILLING WITH RSS. LOST 249 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35-40 11K ; RPM: 11-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 340K; DN WT= 315K; RT WT= 328K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	141.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	141.00	CLEAR 24 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 12508 GALS. RIG FUEL USED = 3604 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED.

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 7
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 249
TOTAL MUD LOSS = 6611 BBL

T 25S R 01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

Y OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 02/28/2009
Report No: 62

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	32.66
Today's MD:	8,717.0 ft	Progress:	179.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	8,538.0 ft	Rot Hrs Today:	23.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	7.6 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 8717'						
24-Hr Summary:	SERVICE RIG, DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE SECTION						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	365.0/ 305.0 kip	Pump Rate:	627.9
Str Wt Rot:	325.0 kip	Pump Press:	3,350.0
Torq Off Btm:	12,000.0 ft-lbf		
Torq On Btm:	11,000.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
8,673.0	2.01	1.28	8,517.69	1,066.9	173.9	1,064.0	1.37	-1.37
8,578.0	3.31	3.11	8,422.79	1,062.5	173.7	1,059.6	0.88	-0.88
8,482.0	4.15	3.00	8,327.00	1,056.2	173.4	1,053.4	1.22	-1.21
8,387.0	5.30	1.52	8,232.32	1,048.4	173.1	1,045.6	1.19	-1.18
8,292.0	6.42	3.16	8,137.82	1,038.7	172.7	1,035.9	1.32	-1.32
8,197.0	7.67	3.98	8,043.54	1,027.1	171.9	1,024.3	1.13	-1.11

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	23.50	99.50	179.0	834.0	7.6	8.4	30.0/37.0	35/42	0.778	656.2	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.5
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 8,716.0	Pf / Mf:	0.1 / 0.5
Density @ Temp:	10.20 / 128	Chlorides:	147,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	48.00	CaCl2:	
PV / YP:	11 / 19	Clom:	
Gels 10s/10m/30m:	11 / 19 / 21	Lime:	
API WL:	11.00	ES:	
HTHP WL:	21.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.00	Carbonate:	
Oil / Water:	/ 95.0	Bicarbonate:	
Sand:	0.05	Form Loss:	340.0 / 6,802.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.00 / 36.00		

VG Meter: 9@3 / 10@6 / 23@100 / 29@200 / 37@300 / 51@600

Comments: DRILLED FROM 8538 TO 8716. ADDING VARIOUS SIZED LCM DIRECTLY TO SUCTION FOR ADDITIONAL SEEPAGE CONTROL. EXPERIENCED MODERATE LOSSES AT 8581 TO 8607. HOLE HEALED

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft
Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	9.00
DRILLSTAR HT	25 LB/SK	110.00
DYNAFIBER M	25 LB/SX	25.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LIME	50 LB/SX	4.00
LT PHALT	50 LB/SX	2.00
MICA FINE	50 LB/SX	24.00
NEW CARB C	50 LB/SX	25.00
NEW CARB M	50 LB/SX	42.00
NEW GEL	100 LBS/SK	35.00
NEW PHPA	5 GAL	2.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	02/28/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	62

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8538' TO 8547' 9' AT 4.5 FPH. DRILLING WITH RSS. LOST 15 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35-40 11K ; RPM: 11-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 340K; DN WT= 315K; RT WT= 328K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
2:00	2:30	0.50	21INDR	RIGMT	SRVRIG	P	RIG SERVICE & CLEAN DP SCREEN
2:30	0:00	21.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8547' TO 8717' 170' AT 7.9 FPH. DRILLING WITH RSS. LOST 325 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35-40 11K ; RPM: 28-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 365K; DN WT= 305K; RT WT= 325K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.2+ PPG. WT OUT 10.2+ PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	142.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	142.00	CLEAR 30 DEGREES

Incident Comments:
ONE DAYS AWAY FROM WORK INCIDENT OF STAFF INFECTION REPORTED BY DAYLIGHT PITWATCHER. STAFF INFECTION AFFECTING INNER RIGHT LEG WAS DIAGONSED BY DOCTOR.

Other Remarks: RIG FUEL ON HAND = 9116 GALS. RIG FUEL USED = 3392 GALS. RECEIVED 0 GALLONS.

ONE STAFF INFECTION VIROUS REPORTED

BOTH CREWS FULL.
THIRD PARTY PERSONAL SIGNED IN = 7
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 340
TOTAL MUD LOSS = 6951 BBL

T25SR01W S-03 API # 43-041-30059

CONFIDENTIAL

OXY USA

Y OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 03/01/2009
Report No: 63

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	33.66
Today's MD:	8,902.0 ft	**Progress:**	185.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	8,717.0 ft	**Rot Hrs Today:**	22.00 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	8.4 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			**Lithology:**			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 8902'						
24-Hr Summary:	SERVICE RIG, DECODE SURVEY, DIRECTIONAL DRILL 12.25' VERTICAL INTERMEDIATE HOLE SECTION						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	**Str Wt Up/Dn:**	350.0/ 308.0 kip	**Pump Rate:**	627.9	**Conn:**		
Next Casing:	9.625in @ 11,000ft	**Str Wt Rot:**	329.0 kip	**Pump Press:**	3,370.0	**Trip:**		
Last BOP Press Test:	02/05/2009	**Torq Off Btm:**	13,000.0 ft-lbf			**Backgr:**		
Form Test/EMW:	FIT	**Torq On Btm:**	12,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
8,863.0	0.14	343.68	8,707.65	1,070.2	173.9	1,067.3	0.82	-0.81
8,769.0	0.90	0.35	8,613.66	1,069.3	173.9	1,066.5	1.16	-1.16
8,673.0	2.01	1.28	8,517.69	1,066.9	173.9	1,064.0	1.37	-1.37
8,578.0	3.31	3.11	8,422.79	1,062.5	173.7	1,059.6	0.88	-0.88
8,482.0	4.15	3.00	8,327.00	1,056.2	173.4	1,053.4	1.22	-1.21
8,387.0	5.30	1.52	8,232.32	1,048.4	173.1	1,045.6	1.19	-1.18

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	22.00	121.50	185.0	1,019.0	8.4	8.4	32.0/39.0	24/42	0.778	662.6	268.1	2.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.1
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 8,903.0	**Pf / Mf:**	0.1 / 0.5
Density @ Temp:	10.30 / 138	**Chlorides:**	144,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	55.00	**CaCl2:**	
PV / YP:	16 / 21	**Clom:**	
Gels 10s/10m/30m:	12 / 15 / 19	**Lime:**	
API WL:	11.40	**ES:**	
HTHP WL:	21.00	**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 4.60	**Carbonate:**	
Oil / Water:	/ 94.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	239.0 / 7,041.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.60 / 41.00		

VG Meter: 11@3 / 13@6 / 22@100 / 28@200 / 37@300 / 53@600

Comments: DRILLED FROM 8716 TO 8903 WITH NO HOLE PROBLEMS. LOST 8-10 BBL/HR DOWN HOLE DUE TO SEEPAGE. TREATED SEEPAGE WITH CONSTANT ADDITIONS OF 4-6 SXS/HR

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft
Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
60 \ 40	50 LBS/SK	10.00
CAUSTIC SODA	50 LB/SX	15.00
DRILLSTAR HT	25 LB/SK	76.00
DYNAFIBER M	25 LB/SX	14.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	11.00
MICA FINE	50 LB/SX	18.00
NEW CARB C	50 LB/SX	12.00
NEWEDGE	50 LB/SX	2.00
NOFOAM X	5 GAL/CN	2.00
SALTGEL	50 LB/SX	50.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/01/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 63

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8717' TO 8738' 21' AT 8.4 FPH. DRILLING WITH RSS. LOST 25 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35-40 11K ; RPM: 28-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 365K; DN WT= 305K; RT WT= 325K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.2 PPG. WT OUT 10.2 PPG
2:30	4:00	1.50	21INDR	SURV	INCL	PT	CONNECTION & TROUBLE DECODING SURVEYS.
4:00	16:30	12.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8738' TO 8836' 98' AT 7.8 FPH. DRILLING WITH RSS. LOST 138 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35-40 11K ; RPM: 28-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 362K; DN WT= 305K; RT WT= 327K FLOW 28% SHOCKS & LAT VIBS: >LEVEL 1 STICK SLIP =100 TO 200% WT IN 10.1 PPG. WT OUT 10.1+ PPG
16:30	17:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG & TOP DRIVE, GET SPR
17:00	0:00	7.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8836' TO 8902' 66' AT 9.4 FPH. DRILLING WITH RSS. LOST 76 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 32-40 11K ; RPM: 24-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 355K; DN WT= 305K; RT WT= 330K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =100 TO 150% WT IN 10.2 PPG. WT OUT 10.2 PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	143.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	143.00	CLEAR 34 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 9380 GALS. RIG FUEL USED = 3860 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

DAYLIGHT CREW 1 HAND SHORT
THIRD PARTY PERSONAL SIGNED IN = 3
BOTH CREWS HELD WELL CONTROL DRILL.
FULL DRILL SITE H2S DRILL & DEBRIEFING

24 HOUR MUD LOSS = 239
TOTAL MUD LOSS = 7190 BBL

T25S R01W S-03 API#43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/02/2009

Report No: 64

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	34.66
Today's MD:	9,100.0 ft	**Progress:**	198.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	8,902.0 ft	**Rot Hrs Today:**	23.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	8.4 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			**Lithology:**			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9100'						
24-Hr Summary:	SERVICE RIG, DIRECTIONAL DRILL 12.25' VERTICAL INTERMEDIATE HOLE SECTION						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	350.0/ 319.0 kip	**Pump Rate:**	627.9
Str Wt Rot:	325.0 kip	**Pump Press:**	3,420.0
Torq Off Btm:	13,000.0 ft-lbf		
Torq On Btm:	12,000.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	24
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,055.0	1.10	92.39	8,899.64	1,070.2	175.7	1,067.4	0.58	0.58
8,959.0	0.54	89.86	8,803.65	1,070.3	174.3	1,067.4	0.62	0.42
8,863.0	0.14	343.68	8,707.65	1,070.2	173.9	1,067.3	0.82	-0.81
8,769.0	0.90	0.35	8,613.66	1,069.3	173.9	1,066.5	1.16	-1.16
8,673.0	2.01	1.28	8,517.69	1,066.9	173.9	1,064.0	1.37	-1.37
8,578.0	3.31	3.11	8,422.79	1,062.5	173.7	1,059.6	0.88	-0.88

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	23.50	145.00	198.0	1,217.0	8.4	8.4	32.0/39.0	32/42	0.778	669.0	268.1	2.2

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 9,100.0	**Pf / Mf:**	0.1 / 0.6
Density @ Temp:	10.30 / 148	**Chlorides:**	162,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	53.00	**CaCl2:**	
PV / YP:	14 / 19	**Clom:**	
Gels 10s/10m/30m:	16 / 19 / 22	**Lime:**	
API WL:	9.30	**ES:**	
HTHP WL:	10.20	**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 4.20	**Carbonate:**	
Oil / Water:	/ 94.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	279.0 / 7,320.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.20 / 38.00		

VG Meter: 13@3 / 14@6 / 21@100 / 28@200 / 34@300 / 49@600

Comments: DRILLED FROM 8903 TO 9100 WITH NO HOLE PROBLEMS. ENCOUNTERED ANHYDRITE IN SMALL AMOUNTS. TREATED WITH SODA ASH. STARTED PUMPING SUCTION TANK

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft

Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	20.00
DRILLSTAR HT	25 LB/SK	76.00
DYNAFIBER M	25 LB/SX	26.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	21.00
MICA FINE	50 LB/SX	31.00
NEW CARB C	50 LB/SX	22.00
NEW CARB M	50 LB/SX	5.00
NOFOAM X	5 GAL/CN	6.00
SALTGEL	50 LB/SX	50.00
SEA MUD	50 LBS/SK	19.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1	**Date:** 03/02/2009
Prim. Reason:	ORIG DRILL DIR	USA	**Report No:** 64

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	14:30	14.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 8902' TO 9025' 123' AT 8.5 FPH. DRILLING WITH RSS. LOST 175 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 32-40, RPM: 24-42 ; TQ= 12, 650 GPM = 3420 PSI UP WT= 360K; DN WT= 308K; RT WT= 330K FLOW 30% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP = O TO 100 WT IN 10.3 PPG. WT OUT 10.3 PPG
14:30	15:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG & TOP DRIVE
15:00	0:00	9.00	21INDR	DRILL	ROTDIR	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9025' TO 9100' 75' AT 8.3 FPH. DRILLING WITH RSS. LOST 104 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 32-40, RPM: 24-42 ; TQ= 13, 650 GPM = 3420 PSI UP WT= 340K; DN WT= 319K; RT WT= 325K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =0 TO 100 WT IN 10.3 PPG. WT OUT 10.3 PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	144.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	144.00	CLEAR 32 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 9752 GALS. RIG FUEL USED = 3498 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

DAYLIGHT CREW 1 HAND SHORT
THIRD PARTY PERSONAL SIGNED IN = 6
BOTH CREWS HELD WELL CONTROL DRILL.

1 MUD PUMP TRACTION MOTOR FAILED

24 HOUR MUD LOSS = 279
TOTAL MUD LOSS = 7469 BBL

T25S R01W S-03 API# 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 03/03/2009
Report No: 65

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	35.66
Today's MD:	9,120.0 ft	**Progress:**	20.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	9,100.0 ft	**Rot Hrs Today:**	2.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	8.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: ARAPIEN SHALE@7,845.0 **Lithology:**

Current Ops: FINISH HWDP INSPECTION, 437' AT 06:00 HOURS

24-Hr Summary: DIR DRILL TO 9120', CIRC, BACKREAM OUT TO 7716', MIX LCM, PUMP TO SHOE, MONITOR WELL, POOH, INSPECT BHA

24-Hr Forecast: INSPECT DC'S, LD BHA # 8, PULL WEAR RING, TEST BOPE,CO SAVER SUB, INSTALL WR, MU RS BHA # 9,TIH, DRILL AHEAD

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	02/05/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	350.0/ 319.0 kip
Str Wt Rot:	325.0 kip
Torq Off Btm:	13,000.0 ft-lbf
Torq On Btm:	12,000.0 ft-lbf

HYDRAULICS

Pump Rate:	627.9
Pump Press:	3,420.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,055.0	1.10	92.39	8,899.64	1,070.2	175.7	1,067.4	0.58	0.58
8,959.0	0.54	89.86	8,803.65	1,070.3	174.3	1,067.4	0.62	0.42
8,863.0	0.14	343.68	8,707.65	1,070.2	173.9	1,067.3	0.82	-0.81
8,769.0	0.90	0.35	8,613.66	1,069.3	173.9	1,066.5	1.16	-1.16
8,673.0	2.01	1.28	8,517.69	1,066.9	173.9	1,064.0	1.37	-1.37
8,578.0	3.31	3.11	8,422.79	1,062.5	173.7	1,059.6	0.88	-0.88

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
7	2.50	147.50	20.0	1,237.0	8.0	8.4	32.0/39.0	30/42	0.778	669.0	268.1	2.2

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 9,120.0	**Pf / Mf:**	0.1 / 0.6
Density @ Temp:	10.40 / 98	**Chlorides:**	168,000
Rheology Temp:		**Ca+ / K+:**	/
Viscosity:	50.00	**CaCl2:**	
PV / YP:	15 / 19	**Clom:**	
Gels 10s/10m/30m:	11 / 15 / 19	**Lime:**	
API WL:	9.30	**ES:**	
HTHP WL:	11.10	**ECD:**	
Cake API / HTHP:	2.0 /	**n / K:**	/
Solids / Sol Corr:	/ 4.50	**Carbonate:**	
Oil / Water:	/ 95.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	586.0 / 7,906.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.50 / 40.00		

VG Meter: 7@3 / 10@6 / 20@100 / 28@200 / 34@300 / 49@600

Comments: DRILLED FROM 9100 TO 9120. DECISION WAS MADE TO TOOH. A 50 BBL HIGH VIS SWEEP WAS PUMPED PRIOR TO TRIPPING OPERATIONS. CONTINUING TO CIRCULATE AND

LAST OR CURRENT BHA

BHA No: 8 Bit No: 7 MD In: 7,883.0 ft

Purpose: DROP ANGLE TO VERTICAL MD Out: 9,120.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	27.92
MWD TOOL	8.375	2.875	1	31.51
STRING STABILIZER	8.000	2.813	1	6.40
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.41
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	32.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.81 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	12.00
DRILLSTAR HT	25 LB/SK	90.00
DYNAFIBER M	25 LB/SX	32.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	12.00
MICA FINE	50 LB/SX	35.00
NEW CARB C	50 LB/SX	28.00
NOFOAM X	5 GAL/CN	3.00
PHENOSEAL	50 LBS/SK	12.00
SALTGEL	50 LB/SX	171.00
SEA MUD	50 LBS/SK	56.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	03/03/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	65

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9100' TO 9120' 20' AT 8 FPH. DRILLING WITH RSS. LOST 25 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 32-40, RPM: 24-42 ; TQ= 13, 650 GPM = 3420 PSI UP WT= 340K; DN WT= 319K; RT WT= 325K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =0 TO 100 WT IN 10.3 PPG. WT OUT 10.3 PPG
2:30	5:00	2.50	21INDR	CIRC	CNDHOL	P	PREPARE & PUMP 50 BBL HIGH VIS LCM SWEEP, CIRC HOLE CLEAN, DOWNLINK RSS TO NEUTRAL FOR TRIP
5:00	6:00	1.00	21INDR	TRIP	DRILL	P	PUMP OUT OF HOLE WITH DRILLING PARAMETERS FOR BHA # 8, 06:00 DEPTH 8900'
6:00	7:30	1.50	21INDR	TRIP	DRILL	P	BACK REAM OUT OF THE HOLE FROM 8,900' TO 7,703'. LOSSING TOTAL RETURNS AT 7,716'.
7:30	11:30	4.00	21INDR	LCIRC	LCM	P	RECIPROCATE PIPE WHILE MIXING LCM PILL. PUMP 114 BBLS 15#/BBL LCM, REGAINING RETURNS AFTER LCM CLEARED THE BIT. TOTAL FLUID LOSS TO FORMATION 532 BBLS.
11:30	17:00	5.50	21INDR	TRIP	DRILL	P	PUMPING OUT OF THE HOLE FROM 7,703' TO 2,807'. 9-5/8 CASING SHOE AT 2,885'.
17:00	17:30	0.50	21INDR	SRFEQ	RIGUP	P	REMOVE ROTATING RUBBER.
17:30	18:00	0.50	21INDR	TRIP	DRILL	P	MONITOR WELL BORE FOR 30 MIN. STATIC.
18:00	19:00	1.00	21INDR	TRIP	DRILL	P	POOH ON ELEVATORS TO HWDP AT 1324' RECOVER CORROSION RING.
19:00	0:00	5.00	21INDR	TRIP	DRILL	P	INSPECT 5" HWDP WITH TDI SERVICES. LD 6 1/2" DRILLING JARS-CRACKED MANDREL.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	145.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	145.00	BREEZE 33 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 11872 GALS. RIG FUEL USED = 1908 GALS. RECEIVED 4005 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 586
TOTAL MUD LOSS = 8055 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/05/2009

Report No: 67

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	37.66
Today's MD:	9,122.0 ft	Progress:	2.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	$91,543
Prev MD:	9,120.0 ft	Rot Hrs Today:	0.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	$6,255,781
PBMD:		Avg ROP Today:	4.0 ft/hr	AFE Number:	94370116	AFE Cost:	$14,678,200
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	PUMP OUT OF HOLE FOR TOOL FAILURE						
24-Hr Summary:	MU BHA 9,TIH TO 4653,W&R TO 4676,TIH TO 6975,REPAIR MP,W&R TO 7980,TIH TO 9073,W&R TO BTTM,DRILL TO 9122,CIRC						
24-Hr Forecast:	POOH, TROUBLESHOOT BHA FOR RESTRICTIONS						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE	
Str Wt Up/Dn:	365.0/ 295.0 kip
Str Wt Rot:	331.0 kip
Torq Off Btm:	13,000.0 ft-lbf
Torq On Btm:	13,000.0 ft-lbf

HYDRAULICS	
Pump Rate:	627.9
Pump Press:	3,550.0

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	24
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58
8,959.0	0.54	90.97	8,803.62	1,070.4	174.0	1,078.0	0.61	0.42
8,862.0	0.13	341.61	8,706.62	1,070.3	173.6	1,077.9	0.85	-0.84
8,769.0	0.91	0.29	8,613.62	1,069.5	173.6	1,077.1	1.16	-1.16
8,673.0	2.02	1.36	8,517.66	1,067.0	173.6	1,074.6	1.37	-1.37
8,578.0	3.32	3.03	8,422.76	1,062.6	173.4	1,070.2	0.88	-0.88

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR
7	12.250	SECURITY DBS	FMHX 653 ZZ	11123618	M323	6x13	7,883.0	9,120.0	2-3-CT-T	D-I-WT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
8	0.50	0.50	2.0	2.0	4.0	4.0	3.0/10.0	35/40	0.720	780.2	289.6	2.5

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.5
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,122.0	Pf / Mf:	0.1 / 0.8
Density @ Temp:	10.40 / 91	Chlorides:	172,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	50.00	CaCl2:	
PV / YP:	11 / 20	Clom:	
Gels 10s/10m/30m:	10 / 15 / 20	Lime:	
API WL:	9.50	ES:	
HTHP WL:	14.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.00	Carbonate:	
Oil / Water:	/ 96.0	Bicarbonate:	
Sand:	0.05	Form Loss:	104.0 / 8,010.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.00 / 36.00		

VG Meter: 9@3 / 10@6 / 16@100 / 22@200 / 31@300 / 42@600

Comments: COMPLETED PICKING UP DIRECTIONAL TOOLS AND BHA. INSTALLED CORROSION RING ONE STAND ABOVE HWDP. COMPLETED TIH AND DRILLED 1 FOOT TILL A PRESSURE SPIKE WAS

LAST OR CURRENT BHA

BHA No: 9 Bit No: 8 MD In: 9,120.0 ft

Purpose: HOLD WELL VERTICAL MD Out: 9,554.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.71
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.05
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.62 ft Wt below Jars: 64,000.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	6.00
DRILLSTAR HT	25 LB/SK	51.00
DYNAFIBER M	25 LB/SX	32.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	3.00
LT PHALT	50 LB/SX	24.00
MICA FINE	50 LB/SX	42.00
NEW CARB C	50 LB/SX	60.00
NEW CARB M	50 LB/SX	25.00
SALTGEL	50 LB/SX	70.00
SAWDUST	2000 LBS/SK	20.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/05/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 67

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	21INDR	TRIP	BHA	P	MU RSS BHA # 9
1:00	5:00	4.00	21INDR	TRIP	DRILL	P	TIH WITH DC, INSTALL CORROSION RING, HWDP, AND DP TO SHOE.
5:00	6:00	1.00	21INDR	TRIP	DRILL	P	INSTALL ROTATING RUBBER. DOWNLINK RSS
6:00	7:00	1.00	21INDR	CIRC	CNDFLD	P	CIRCULATE BOTTOMS UP, DOWN LINK RSS.
7:00	8:00	1.00	21INDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 2,910' TO 4,653'. TAKING 30K DOWN WEIGHT AT 4,653'.
8:00	9:00	1.00	21INDR	REAM	RMTGT	PT	WASH AND DREAM FROM 4,653' TO 4,676' AT 548 GPM, 2510 PSI, 40 RPM, WOB 0 TO 10K. MW IN 10.3+ OUT 10.3+
9:00	11:30	2.50	21INDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 4,676' TO 6,975'. TAKING 20K DOWN WEIGHT AT 6,975'. FILLING PIPE AT 6,829'.
11:30	12:30	1.00	21INDR	REAM	RMTGT	PT	WASH AND REAM FROM 6,975' TO 7,007' AT 650 GPM, 3255 PSI, 1 TO 10K WOB, 40 RPM, 10 TO 18 TQ. LOST 17 BBLS TO THE WELL BORE.
12:30	13:15	0.75	21INDR	RIGMT	REP	PT	REPAIR PUMPS. REPLACE #2 ROD OILER LOVE JOY COUPLING, TIGHTEN #3 BELTS, TROUBLE SHOOT #1MUD PUMP TRACTION MOTOR. CIRCULATE WITH 1 MUD PUMP.
13:15	14:30	1.25	21INDR	REAM	RMTGT	PT	WASH AND REAM FROM 7,007' TO 7,980'. TAKING 20K WEIGHT AT 7,036', 7,125', 7,247', 7,251', 7,405', 7,452', 7,525', 7,606', 7,719'. 650 GPM 3,410 PSI, 40 RPM, 8 TO 12K TQ, 2 TO 10K WOB. LOST 39 BBLS TO THE WELL BORE.
14:30	17:30	3.00	21INDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 7,980' TO 9,073' WITH NO FUTHER PROBLEMS. SO 290K.
17:30	18:30	1.00	21INDR	REAM	PRRM	P	WASH AND REAM FROM 9,073' TO 9,120' AS A PRECAUTIONARY MEASURE AT 650 GPM 3,480 PSI. 3 TO 7K WOB, ENCOUNTERING 5' OF FILL PRIOR TO TAGGING BOTTOM. MADE CONNECTION.
18:30	19:00	0.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE, BREAK IN BIT & DRILL FROM 9,120' TO 9,122' 2' AT 4.0 FPH. DRILLING WITH RSS. LOST 10 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 3-10, RPM: 40 ; TQ= 13, 650 GPM = 3480 PSI UP WT= 355K; DN WT= 290K; RT WT= 328K FLOW 31% SHOCKS & LAT VIBS: >LEVEL 0 STICK SLIP =0 TO 100 WT IN 10.3+ PPG. WT OUT 10.3+ PPG
19:00	22:00	3.00	21INDR	CIRC	CNDFLD	PT	PUMP 12 BBL 18PPB WALNUT-MICA SWEEP, SPP SPIKED F/ 3480 T/ 4400 PSI AS SWEEP REACHED BHA, MWD TURBINE STOPPED ON PRESSURE SPIKE - MWD APPEARS JAMMED, PUMP 5 BBL 9.2 PPG BRINE WATER, SURGE STRING & PUMP PRESSURE. SPP STAYED CONSISTANT AT 4000PSI - 540GPM DURING TROUBLESHOOTING TOOL FAILURE.
22:00	0:00	2.00	21INDR	TRIP	DRILL	PT	ATTEMT PUMP OUT OF HOLE, BACKREAM OUT OF HOLE DUE TO 80K EXCESS DRAG F/ 9120' TO 7400', 300GPM AT 1750PSI, 40 RPM W/ 15K TORQUE. MINOR MUD LOSS.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	147.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	147.00	CLEAR 32 DEGREE

Incident Comments:
No incidents reported last 24 hours. 5 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 13780GALS. RIG FUEL USED = 2756 GALS. RECEIVED 5,800 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 22
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 104
TOTAL MUD LOSS = 8159 BBL

TROUBLE SHOOTING #1 MUD PUMP (TRACTION MOTOR ISSUES)

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/06/2009

Report No: 68

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	38.66
Today's MD:	9,311.0 ft	Progress:	189.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	9,122.0 ft	Rot Hrs Today:	13.25 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	14.3 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9311'						
24-Hr Summary:	POOH TO 5500',ESTB MWD COMM, TIH TO 6990', W&R TO 7303,TIH TO 9021, W&R TO BTTM, DRILL TO 8311'						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE	
Str Wt Up/Dn:	365.0/ 295.0 kip
Str Wt Rot:	330.0 kip
Torq Off Btm:	17,000.0 ft-lbf
Torq On Btm:	16,000.0 ft-lbf

HYDRAULICS	
Pump Rate:	627.9
Pump Press:	3,650.0

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58
8,959.0	0.54	90.97	8,803.62	1,070.4	174.0	1,078.0	0.61	0.42
8,862.0	0.13	341.61	8,706.62	1,070.3	173.6	1,077.9	0.85	-0.84
8,769.0	0.91	0.29	8,613.62	1,069.5	173.6	1,077.1	1.16	-1.16

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
8	13.25	13.75	189.0	191.0	14.3	13.9	17.0/26.0	36/40	0.720	686.8	273.0	2.2

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.4
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,310.0	Pf / Mf:	0.1 / 0.9
Density @ Temp:	10.30 / 111	Chlorides:	149,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	48.00	CaCl2:	
PV / YP:	18 / 18	Clom:	
Gels 10s/10m/30m:	10 / 19 / 23	Lime:	
API WL:	9.70	ES:	
HTHP WL:	14.40	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.30	Carbonate:	
Oil / Water:	/ 95.0	Bicarbonate:	
Sand:	0.05	Form Loss:	83.0 / 8,093.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.30 / 39.00		

VG Meter: 8@3 / 9@6 / 18@100 / 25@200 / 36@300 / 54@600

Comments: TOOH TO 5500 AND BEGAN PUMPING AT 650 GAL/MIN. DECISION WAS MADE TO TIH AND RESUME DRILLING. TAGGED BOTTOM AT 9122 AND DRILLED TO 9310 WITH NO HOLE PROBLEMS.

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	2.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	5.00
NOFOAM X	5 GAL/CN	3.00
SALTGEL	50 LB/SX	70.00
SEA MUD	50 LBS/SK	15.00
TAX	EACH	1.00

LAST OR CURRENT BHA

BHA No: 9 Bit No: 8 MD In: 9,120.0 ft

Purpose: HOLD WELL VERTICAL MD Out: 9,554.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.71
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.05
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.62 ft Wt below Jars: 64,000.0 kip

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MAR 2 4 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR

BURRVILLE FEDERAL 3-1
USA

Date: 03/06/2009
Report No: 68

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	21INDR	TRIP	DRILL	PT	CONTINUE TO PUMP OUT OF HOLE F/ 7400' T/ 5500' DUE TO EXCESS SPP. 25 BBL MUD LOST TO HOLE. 300GPM AT 1629PSI.
3:00	4:00	1.00	21INDR	CIRC	CNDFLD	PT	LOST 700PSI STAND PIPE PRESSURE. INCREASE FLOW RATE TO 650GPM AT 2850PSI NORMAL SPP. ACHIEVED MWD COMMUNICATION AND 3400RPM ON MWD TURBINE. CHECK SHOT SURVEY. CONSULT WITH TEAM MEMBERS & SLM OPERATION SUPPORT.
4:00	6:00	2.00	21INDR	TRIP	DRILL	PT	TIH SLOW TO DRILL WITH NO PROBLEMS, 06:00 HR DEPTH 6600'
6:00	6:45	0.75	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 6,600' TO 6,990'.
6:45	7:30	0.75	21INDR	REAM	RMTGT	PT	WASH AND REAM FROM 6,990' TO 7,321'. 550 GPM, 2,623 PSI, 40 RPM, 12 TO 14K TQ, 2 TO 10K WOB. INTERVALS REAMED THRU. 6,990' - 6,999', 7,035' - 7,039' 7,090, - 7,099' 7,123, - 7,200' 7,290' - 7,303'
7:30	9:30	2.00	21INDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 7,303' TO 9,021'. NO PROBLEMS.
9:30	10:45	1.25	21INDR	REAM	PRRM	PT	WASH AND REAM FROM 9,021' TO 9,122' AS A PRECAUTIONARY MEASURE AT 650 GPM 3,487 PSI. 2 TO 7K WOB. 107 BBLS LOST TO THE WELL BORE.
10:45	18:00	7.25	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE, DRILL FROM 9,122' TO 9,231', 109' AT 15 FPH. DRILLING WITH RSS. LOST 28 BBLS MUD TO FORMATION. WOB 20-25, RPM: 40 ; TQ= 13, 650 GPM = 3690 PSI UP WT= 365K; DN WT= 295K; RT WT= 330K FLOW 20% STICK SLIP = 80 TO 120 WT IN 10.3 PPG. WT OUT 10.3 PPG
18:00	0:00	6.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE, DRILL FROM 9,231' TO 9311, 80' AT 13.3 FPH. DRILLING WITH RSS. LOST 15 BBLS MUD TO FORMATION. WOB 20-25, RPM: 40 ; TQ= 13, 650 GPM = 3690 PSI UP WT= 365K; DN WT= 295K; RT WT= 330K FLOW 20% STICK SLIP = 80 TO 120 WT IN 10.3 PPG. WT OUT 10.3 PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	148.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	148.00	SNOWING 31 DEGREES

Incident Comments:
No incidents reported last 24 hours. 7 Safe work permits issued.

Other Remarks: RIG FUEL ON HAND = 9964 GALS. RIG FUEL USED = 3816 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED
1 MP DOWN TO REPAIRS FOR TRACTION MOTOR

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 19
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 83
TOTAL MUD LOSS = 8242 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/07/2009

Report No: 69

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	39.66
Today's MD:	9,504.0 ft	Progress:	193.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	$94,334
Prev MD:	9,311.0 ft	Rot Hrs Today:	23.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	$6,442,627
PBMD:		Avg ROP Today:	8.4 ft/hr	AFE Number:	94370116	AFE Cost:	$11,078,000
Current Formation:	ARAPIEN SHALE@7,845.0			Lithology:			
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9504'						
24-Hr Summary:	SERVICE RIG, DIRECTIONAL DRILL 12.25' VERTICAL INTERMEDIATE HOLE SECTION, FUNCTION TEST #1 MP						
24-Hr Forecast:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	380.0/ 300.0 kip	Pump Rate:	627.9
Str Wt Rot:	334.0 kip	Pump Press:	3,485.0
Torq Off Btm:	120,000.0 ft-lbf		
Torq On Btm:	11,000.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/S	E/W	VS	DLS	Build
9,438.0	0.09	287.12	9,282.59	1,070.6	177.5	1,078.4	0.16	-0.01
9,341.0	0.10	41.60	9,185.59	1,070.6	177.5	1,078.3	0.14	0.06
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58
8,959.0	0.54	90.97	8,803.62	1,070.4	174.0	1,078.0	0.61	0.42

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
8	23.00	36.75	193.0	384.0	8.4	10.4	18.0/27.0	20/45	0.720	718.8	280.7	2.2

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,503.0	Pf / Mf:	0.1 / 0.6
Density @ Temp:	10.20 / 132	Chlorides:	160,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	49.00	CaCl2:	
PV / YP:	15 / 18	Clom:	
Gels 10s/10m/30m:	11 / 19 / 20	Lime:	
API WL:	8.20	ES:	
HTHP WL:	15.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 3.40	Carbonate:	
Oil / Water:	/ 88.0	Bicarbonate:	
Sand:	0.05	Form Loss:	89.0 / 8,182.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.30 / 30.00		

VG Meter: 8@3 / 10@6 / 15@100 / 20@200 / 29@300 / 41@600

Comments: DRILLED FROM 9310 TO 9503 WITH NO HOLE PROBLEMS. PUMPING HIGH VIS/LCM SWEEPS FOR ADDITIONAL HOLE CLEANING AND SEEPAGE CONTROL.

LAST OR CURRENT BHA

BHA No: 9 Bit No: 8 MD In: 9,120.0 ft

Purpose: HOLD WELL VERTICAL MD Out: 9,554.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.71
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.05
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.62 ft Wt below Jars: 64,000.0 kip

MUD PRODUCTS

Product	Units	Qty Used
BUSAN	40 LB/SX	4.00
CAUSTIC SODA	50 LB/SX	8.00
DRILLSTAR HT	25 LB/SK	25.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	3.00
LT PHALT	50 LB/SX	50.00
NEW GEL HY	50 LBS/SK	120.00
PALLETS	EA.	17.00
PHENOSEAL	50 LBS/SK	6.00
SALTGEL	50 LB/SX	264.00
SEA MUD	50 LBS/SK	120.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR
BURRVILLE FEDERAL 3-1
USA
Date: 03/07/2009
Report No: 69

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG
0:30	6:00	5.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9311' TO 9392' 81' AT 14.7 FPH. DRILLING WITH RSS. LOST 34 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 32-40; RPM: 24-42 ; TQ= 11, 650 GPM = 3370 PSI UP WT= 355K; DN WT= 305K; RT WT= 330K FLOW 21% STICK SLIP =100 TO 150% WT IN 10.2 PPG. WT OUT 10.2 PPG
6:00	18:00	12.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,392' TO 9,497' 105" AT 8.75 FPH. DRILLING WITH RSS. LOST 25 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 25K; RPM: 40; TQ= 12 TO 15K, 630 GPM = 3505 PSI UP WT= 377K; DN WT= 310K; RT WT= 340K FLOW 21% STICK SLIP = 80 TO 90% WT IN 10.2 PPG. WT OUT 10.2 PPG DOWN HOLE TEMP 168.9 DEG @ 9,416'. TWIN CREEK FORMATION TOP CAME IN @ 9,223' MD, 9,168' TVD.
18:00	20:30	2.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,497' TO 9,501' 4" AT 1.6 FPH. DRILLING WITH RSS. LOST 15 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 26K; RPM: 29; TQ= 11 TO 13K, 630 GPM = 3485 PSI UP WT= 377K; DN WT= 310K; RT WT= 340K FLOW 21% STICK SLIP = 80 TO 90% WT IN 10.2 PPG. WT OUT 10.2 PPG ROP SLOWED TO CONSISTANT 1 FPH AT 9499', SILICIFIED SAMPLES AT SHAKERS
20:30	21:00	0.50	21INDR	RIGMT	SRVRIG	P	SRVICE RIG, FUNCTION TEST REPAIRED MP # 1
21:00	0:00	3.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,501' TO 9,504' 3' AT 1.5 FPH. DRILLING WITH RSS. LOST 12 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 27K; RPM: 29; TQ= 11 TO 12K, 630 GPM = 3485 PSI UP WT= 377K; DN WT= 310K; RT WT= 340K FLOW 27% STICK SLIP = 80 TO 90% WT IN 10.2 PPG. WT OUT 10.1+ PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	149.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	149.00	COLD 22 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 12720 GALS. RIG FUEL USED = 3927 GALS. RECEIVED 6,683 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED
REPAIRED #1 MP TRACTION MOTOR
1 MP OPERATIONAL AT 21:00 HOURS (REPLACED BRUSHES, BRUSH HOLDERS AND WIRING BETWEEN BRUSHES)

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 19
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 83
TOTAL MUD LOSS = 8242 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/08/2009

Report No: 70

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	40.66
Today's MD:	9,534.0 ft	Progress:	30.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	$76,824
Prev MD:	9,504.0 ft	Rot Hrs Today:	23.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	$6,520,345
PBMD:		Avg ROP Today:	1.3 ft/hr	AFE Number:	94370116	AFE Cost:	$11,678,200

Current Formation: TWIN CREEK@9,223.0 **Lithology:** 30% LIMESTONE, 40% SILTSTONE, 30% CHERT

Current Ops: DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9534'

24-Hr Summary: DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE SECTION

24-Hr Forecast: DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	380.0/ 305.0 kip
Str Wt Rot:	338.0 kip
Torq Off Btm:	12,000.0 ft-lbf
Torq On Btm:	11,000.0 ft-lbf

HYDRAULICS

Pump Rate:	627.9
Pump Press:	3,460.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,438.0	0.09	287.12	9,282.59	1,070.6	177.5	1,078.4	0.16	-0.01
9,341.0	0.10	41.60	9,185.59	1,070.6	177.5	1,078.3	0.14	0.06
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58
8,959.0	0.54	90.97	8,803.62	1,070.4	174.0	1,078.0	0.61	0.42

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
8	23.00	59.75	30.0	414.0	1.3	6.9	22.0/29.0	20/46	0.720	698.4	276.6	2.1

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.0
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,533.0	Pf / Mf:	0.1 / 0.7
Density @ Temp:	10.20 / 118	Chlorides:	158,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	53.00	CaCl2:	
PV / YP:	14 / 20	Clom:	
Gels 10s/10m/30m:	17 / 25 / 30	Lime:	
API WL:	11.30	ES:	
HTHP WL:	16.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	11.50 / 3.30	Carbonate:	
Oil / Water:	/ 88.0	Bicarbonate:	
Sand:	0.05	Form Loss:	43.0 / 8,225.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.60 / 23.00		

VG Meter: 12@3 / 12@6 / 21@100 / 27@200 / 34@300 / 48@600

Comments: DRILLED FROM 9503 TO 9533 WITH NO HOLE PROBLEMS. ADDING SACK LCM FOR MINOR SEEPAGE. CURRENTLY DRILLING AHEAD WITH NO ISSUES.

LAST OR CURRENT BHA

BHA No: 9 Bit No: 8 MD In: 9,120.0 ft

Purpose: HOLD WELL VERTICAL MD Out: 9,554.0 ft

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.71
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.05
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.62 ft **Wt below Jars:** 64,000.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	8.00
DRILLSTAR HT	25 LB/SK	39.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	11.00
NEW GEL HY	50 LBS/SK	42.00
NEWEDGE	50 LB/SX	40.00
NEWPHALT	50 LB/SX	30.00
NOFOAM X	5 GAL/CN	8.00
SALTGEL	50 LB/SX	124.00
SEA MUD	50 LBS/SK	21.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/08/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 70

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,504' TO 9,509' 5' AT 1 FPH. DRILLING WITH RSS. LOST 12 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 27K; RPM: 29; TQ= 11 TO 12K, 630 GPM = 3485 PSI UP WT= 377K; DN WT= 310K; RT WT= 340K FLOW 27% STICK SLIP = 80 TO 90% WT IN 10.2 PPG. WT OUT 10.1+ PPG DAYLIGHT SAVINGS TIME 1 HOUR
6:00	18:00	12.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,509' TO 9,521', 12' AT 1.0 FPH. DRILLING WITH RSS. LOST 24 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. DOWN HOLE TEMP 170 DEG @ 9,518'. WOB 25K; RPM: 32; TQ= 11 TO 12K, 630 GPM = 3446 PSI UP WT= 370K; DN WT= 310K; RT WT= 340K FLOW 24% STICK SLIP = 40% WT IN 10.1+ PPG. WT OUT 10.2 PPG
18:00	0:00	6.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,521' TO 9,534', 13' AT 1.1 FPH. DRILLING WITH RSS. LOST 10 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. DOWN HOLE TEMP 170 DEG @ 9,518'. WOB 27K; RPM: 36; TQ= 11 TO 12K, 630 GPM = 3460 PSI UP WT= 380K; DN WT= 305K; RT WT= 338K FLOW 25% STICK SLIP = 40% WT IN 10.1+ PPG. WT OUT 10.2 PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	150.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	150.00	CLOUDY 26 DEGREES

Incident Comments:
No incidents reported last 24 hours. 4 Safe work permits issued.

Other Remarks:

RIG FUEL ON HAND = 8904 GALS. RIG FUEL USED = 3816 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 43
TOTAL MUD LOSS = 8374 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/09/2009

Report No: 71

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	41.66
Today's MD:	9,554.0 ft	Progress:	20.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	$36,545
Prev MD:	9,534.0 ft	Rot Hrs Today:	10.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	$6,607,990
PBMD:		Avg ROP Today:	1.9 ft/hr	AFE Number:	94370116	AFE Cost:	$1,678,200

Current Formation:	NAVAJO@9,520.0
Lithology:	SAND
Current Ops:	DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9554'
24-Hr Summary:	DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE SECTION
24-Hr Forecast:	RIH W/ BHA #10.

CASING/WELL CONTROL	
Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	375.0/ 305.0 kip	Pump Rate:	623.7
Str Wt Rot:	340.0 kip	Pump Press:	3,480.0
Torq Off Btm:	11.0 ft-lbf		
Torq On Btm:	12.0 ft-lbf		

MUD GAS	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,438.0	0.09	287.12	9,282.59	1,070.6	177.5	1,078.4	0.16	-0.01
9,341.0	0.10	41.60	9,185.59	1,070.6	177.5	1,078.3	0.14	0.06
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58
8,959.0	0.54	90.97	8,803.62	1,070.4	174.0	1,078.0	0.61	0.42

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
8	10.50	70.25	11.0	425.0	1.0	6.0	25.0/30.0	30/30	0.720	718.8	280.7	2.2

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,554.0	Pf / Mf:	0.1 / 0.8
Density @ Temp:	10.20 / 119	Chlorides:	155,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	50.00	CaCl2:	
PV / YP:	14 / 18	Clom:	
Gels 10s/10m/30m:	9 / 14 / 19	Lime:	
API WL:	11.90	ES:	
HTHP WL:	20.00	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 4.00	Carbonate:	
Oil / Water:	/ 88.1	Bicarbonate:	
Sand:	0.05	Form Loss:	73.0 / 8,298.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.90 / 35.00		

VG Meter: 7@3 / 11@6 / 20@100 / 28@200 / 32@300 / 46@600

Comments: DRILLED FROM 9533 TO 9554 WITH NO HOLE PROBLEMS. DECISION WAS MADE TO TOOH AND REPLACE BIT AND DIRECTIONAL TOOLS. CURRENTLY LAYING DOWN BHA.

LAST OR CURRENT BHA

BHA No:	9	Bit No:	8
Purpose:	HOLD WELL VERTICAL		
MD In:	9,120.0 ft		
MD Out:	9,554.0 ft		

Component	OD	ID	Jts	Length
PDC BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.71
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.05
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.62 ft Wt below Jars: 64,000.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
DRILLSTAR HT	25 LB/SK	19.00
DRILLTHIN	25 LB/SX	10.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEWPHALT	50 LB/SX	7.00
SALTGEL	50 LB/SX	46.00
SEA MUD	50 LBS/SK	26.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING
Prim. Reason: ORIG DRILL DIR

BURRVILLE FEDERAL 3-1
USA

Date: 03/09/2009
Report No: 71

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,534' TO 9,543', 9' AT 1.5 FPH. DRILLING WITH RSS. LOST 30 BBLS MUD TO FORMATION. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. DOWN HOLE TEMP 170 DEG @ 9,518'. WOB 27K; RPM: 36; TQ= 11 TO 12K, 630 GPM = 3460 PSI UP WT= 380K; DN WT= 305K; RT WT= 338K FLOW 25% STICK SLIP = 40% WT IN 10.1+ PPG. WT OUT 10.2 PPG
6:00	8:30	2.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,543' TO 9,549', 6' AT 2.4 FPH. DRILLING WITH RSS. LOST 43 BBLS MUD TO THE WELL BORE. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. DOWN HOLE TEMP 173.2 DEG @ 9,545'. WOB 30K; RPM: 36; TQ= 11 TO 12K, 630 GPM = 3460 PSI UP WT= 380K; DN WT= 305K; RT WT= 338K FLOW 25% STICK SLIP = 90% WT IN 10.1+ PPG. WT OUT 10.2 PPG
8:30	9:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
9:00	11:00	2.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,549' TO 9,554', 5' AT 2.5 FPH. DRILLING WITH RSS. NO MUD LOST TO THE WELL BORE. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 30K; RPM: 30; TQ= 11 TO 12K, 630 GPM = 3500 PSI UP WT= 375K; DN WT= 305K; RT WT= 340K FLOW 25% STICK SLIP = 90 TO 140% WT IN 10.1+ PPG. WT OUT 10.2 PPG NAVAJO FORMATION TOP @ 9,520'
11:00	18:30	7.50	21INDR	TRIP	DRILL	P	PUMPING OUT OF THE HOLE FROM 9,554' TO 2,820', NO PROBLEMS.
18:30	19:00	0.50	21INDR	SRFEQ	RIGUP	P	PULL ROTATING RUBBER, BLOW DOWN TOP DRIVE, MONITOR WELL.STATIC.
19:00	21:00	2.00	21INDR	TRIP	DRILL	P	POOH FROM SHOE TO BHA
21:00	0:00	3.00	21INDR	TRIP	BHA	P	LD BHA # 8
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	151.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	151.00	CLEAR 27 DEGREES

Incident Comments:
No incidents reported last 24 hours. 3 Safe work permits issued.
1 Hot work permit issued.

Other Remarks:

RIG FUEL ON HAND = 13144 GALS. RIG FUEL USED = 3362 GALS. RECEIVED 7,602 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 3
BOTH CREWS HELD WELL CONTROL DRILL.

REPAIRING 2 SHAKER MOTORS, BOLTS BUSTED ON #2 & #3 SHAKERS

24 HOUR MUD LOSS = 121
TOTAL MUD LOSS = 8495 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/10/2009

Report No: 72

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	42.66
Today's MD:	9,606.0 ft	Progress:	52.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	9,554.0 ft	Rot Hrs Today:	8.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	6.1 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation: NAVAJO@9,520.0 **Lithology:** SAND

Current Ops: DIRECTIONAL DRILLING 12.25" INTERMEDIATE HOLE AT 9606'

24-Hr Summary: MU BHA,TIH,INSTALL ROT RUB,CUT DRLG LN, SERV RIG,TIH REAMING AS NEEDED, DRILL F/ 9554' TO 9606'

24-Hr Forecast: DIRECTIONAL DRILL 12.25' INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	378.0/ 313.0 kip
Str Wt Rot:	338.0 kip
Torq Off Btm:	15,000.0 ft-lbf
Torq On Btm:	12,000.0 ft-lbf

HYDRAULICS

Pump Rate:	674.0
Pump Press:	3,800.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,532.0	0.09	299.29	9,376.59	1,070.7	177.3	1,078.5	0.02	0.00
9,438.0	0.09	287.12	9,282.59	1,070.6	177.5	1,078.4	0.16	-0.01
9,341.0	0.10	41.60	9,185.59	1,070.6	177.5	1,078.3	0.14	0.06
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39
9,055.0	1.10	92.39	8,899.61	1,070.4	175.4	1,078.0	0.58	0.58

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
9	12.250	BAKER	HRS44DXO	6053555	617	3x18	9,554.0	9,758.0	5-8-FC-A	E-I-BT-PR
8	12.250	SECURITY DBS	FM3663 Z	10934531	M323	3x13, 3x12, 3x12	9,120.0	9,554.0	8-2-RO-M	D-I-CT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
9	8.50	8.50	52.0	52.0	6.1	6.1	10.0/30.0	20/36	0.746	782.3	291.4	2.6

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / JOHN R. PET	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.3
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,606.0	Pf / Mf:	0.1 / 0.8
Density @ Temp:	10.30 / 120	Chlorides:	153,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	68.00	CaCl2:	
PV / YP:	13 / 22	Clom:	
Gels 10s/10m/30m:	25 / 30 / 36	Lime:	
API WL:	10.40	ES:	
HTHP WL:	19.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	/ 3.90	Carbonate:	
Oil / Water:	/ 87.4	Bicarbonate:	
Sand:	0.05	Form Loss:	65.0 / 8,363.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.90 / 35.00		

VG Meter: 15@3 / 16@6 / 24@100 / 30@200 / 35@300 / 49@600

Comments: CHANGED OUT BIT AND POWER DRIVE WITH NO PROBLEMS. WASHED DOWN DRILL PIPE FROM 6252 TO 7965. DRILLED FROM 9554 TO 9606 WITH NO HOLE PROBLEMS.

LAST OR CURRENT BHA

BHA No: 10 Bit No: 9 MD In: 9,554.0 ft

Purpose: DRILL 12.25" HOLE MD Out: 9,758.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.19
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.90 ft **Wt below Jars:** 74,459.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
DRILLSTAR HT	25 LB/SK	17.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
TAX	EACH	1.00

RECEIVED

MAR 2 4 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/10/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 72

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	21INDR	TRIP	BHA	P	MU BHA # 10, BIT # 9, PU NEW POWER V, MUD MOTOR & MWD
0:30	6:30	6.00	21INDR	TRIP	DRILL	P	RIH WITH DC, HW & DP TO 3,033'. 9-5/8 SHOE AT 2,885'.
6:30	7:00	0.50	21INDR	SRFEQ	RIGUP	P	INSTALL ROTATING RUBBER.
7:00	8:30	1.50	21INDR	RIGMT	SRVRIG	P	SLIP AND CUT DRILLING LINE. CIRCULATE BOTTOMS UP AT 578 GPM, 1876 PSI. SHALLOW HOLE TEST DIRECTIONAL TOOLS.
8:30	9:00	0.50	21INDR	RIGMT	SRVRIG	P	SERVICE RIG.
9:00	15:15	6.25	21INDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 3,033' TO 9,493". INTERVALS WASHED AND REAMED THRU AT 615 GPM, 2,555 PSI, 40 RPM, 10-16K TQ. 3,872' - 3,883' 4,272' - 4,278' 6,561' - 6,572' 6,901' - 6,914' 6,932' - 6,934' 6,993' - 6,995' 7,198' - 7,200' 7,263' - 7,265' 7,292' - 7,294' 7,662' - 7,666' 7,873' - 7,891'
15:15	15:30	0.25	21INDR	REAM	PRRM	P	PRECATIONARY WASH AND REAM FROM 9,493' TO 9,553'. FANNING BOTTOM AT 650 GPM, 3600 PSI WHILE DOWN LINKING RSS TO POWER V MODE AT 100%
15:30	0:00	8.50	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,554' TO 9,606, 52' AT 6.1 FPH. DRILLING WITH RSS. 32 BBLS LOST TO THE WELL BORE. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 30K; RPM: 31; TQ= 12 TO 16K, 672 GPM = 3800 PSI UP WT= 378K; DN WT= 313K; RT WT= 338K FLOW 24% STICK SLIP = 90 TO 150% WT IN 10.1+ PPG. WT OUT 10.2 PPG
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	152.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	152.00	CLEAR 29 DEGREES

Incident Comments:

No incidents reported last 24 hours. 3 Safe work permits issued.
1 Hot work permit issued.

Other Remarks:

RIG FUEL ON HAND = 9,540 GALS. RIG FUEL USED = 3,604 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 7
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 65
TOTAL MUD LOSS = 8560 BBL

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 03/12/2009
Report No: 74

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	44.66
Today's MD:	9,758.0 ft	Progress:	11.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	$
Prev MD:	9,747.0 ft	Rot Hrs Today:	5.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	$
PBMD:		Avg ROP Today:	2.2 ft/hr	AFE Number:	94370116	AFE Cost:	$
Current Formation:	NAVAJO@9,520.0			Lithology:	SAND		
Current Ops:	TRIPPING IN HOLE AT 1568'						
24-Hr Summary:	DIR. DRILL FROM 9747 TO 9758', POOH, CHANGE BHA, START TRIPPING IN HOLE.						
24-Hr Forecast:	FINISH TIH, DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE TOWARDS TD OF 11000 +/-						

CASING/WELL CONTROL

Last Casing:	13.375in @ 2,885ft
Next Casing:	9.625in @ 11,000ft
Last BOP Press Test:	03/04/2009
Form Test/EMW:	FIT

HOOKLOAD & TORQUE

Str Wt Up/Dn:	390.0/ 300.0 kip
Str Wt Rot:	346.0 kip
Torq Off Btm:	15,000.0 ft-lbf
Torq On Btm:	12,000.0 ft-lbf

HYDRAULICS

Pump Rate:	648.8
Pump Press:	3,700.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
9,628.0	0.33	0.27	9,472.59	1,071.0	177.3	1,078.8	0.31	0.25
9,532.0	0.09	299.29	9,376.59	1,070.7	177.3	1,078.5	0.02	0.00
9,438.0	0.09	287.12	9,282.59	1,070.6	177.5	1,078.4	0.16	-0.01
9,341.0	0.10	41.60	9,185.59	1,070.6	177.5	1,078.3	0.14	0.06
9,245.0	0.04	267.20	9,089.59	1,070.5	177.4	1,078.3	0.81	-0.73
9,150.0	0.73	82.95	8,994.60	1,070.4	176.9	1,078.2	0.42	-0.39

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
9	12.250	BAKER	HRS44DXO	6053555	617	3x18	9,554.0	9,758.0	5-8-FC-A	E-I-BT-PR

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
9	5.00	37.50	11.0	204.0	2.2	5.4	25.0/30.0	40/55	0.746	714.1	279.7	2.3

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	27.0 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 9,758.0	Pf / Mf:	0.2 / 0.4
Density @ Temp:	10.20 / 108	Chlorides:	159,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	64.00	CaCl2:	
PV / YP:	13 / 22	Clom:	
Gels 10s/10m/30m:	10 / 15 / 18	Lime:	
API WL:	9.50	ES:	
HTHP WL:	14.40	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	11.90 / 3.70	Carbonate:	
Oil / Water:	/ 88.1	Bicarbonate:	
Sand:	0.10	Form Loss:	35.0 / 8,472.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.70 / 33.77		

VG Meter: 11@3 / 18@6 / 26@100 / 30@200 / 35@300 / 57@600

Comments: DRILLED TO 9758. DECISION WAS MADE TO POOH FOR BIT CHANGE. TIGHT PULLING OFF BOTTOM. NO OTHER LOSSES ENCOUNTERED DURING TRIP OUT OF HOLE. CURRENTLY

LAST OR CURRENT BHA

BHA No: 10 Bit No: 9 MD In: 9,554.0 ft
Purpose: DRILL 12.25" HOLE MD Out: 9,758.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
ROTARY STEERABLE MOTOR	9.063	3.000	1	13.85
CROSSOVER	8.250	3.250	1	3.12
CROSSOVER	8.063	2.813	1	2.98
POSITIVE DISPLACEMENT MOTOR	7.750	2.063	1	28.19
MWD TOOL	8.375	2.875	1	31.32
STRING STABILIZER	8.000	2.813	1	7.53
NON-MAG DRILL COLLAR	8.000	2.875	1	30.03
DRILL COLLAR	7.875	2.813	11	320.29
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	3.063	7	212.89
DRILLING JAR	6.500	2.750	1	31.01
HWDP	5.000	3.063	21	638.13

Total Length: 1,323.90 ft Wt below Jars: 74,459.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
DRILLSTAR HT	25 LB/SK	39.00
DRUM DISPOSAL		2.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEWEDGE	50 LB/SX	30.00
PALLETS	EA.	64.00
SHRINK WRAP	EA.	34.00
SODA ASH	50 LBS/SK	7.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/12/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 74

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	5:00	5.00	21INDR	DRILL	RSS	P	DIRECTIONAL DRILL 12.25" INTERMEDIATE HOLE DRILL FROM 9,747' TO 9,758', 11' AT 2.2 FPH. DRILLING WITH RSS. 11 BBLS LOST TO THE WELL BORE. TRACE OF LCM CONTENT IN ACTIVE MUD SYSTEM. WOB 35K; RPM: 52; TQ ON BTTM = 10 T/ 11 OFF BTTM = 19K, 655 GPM = 3653 PSI ON, OFF 3,450 PSI. UP WT= 380K; DN WT= 310K; RT WT= 345K FLOW 22% LATERAL VIBS = 1.8 STICK SLIP = 50% WT IN 10.2 PPG. WT OUT 10.2 PPG DOWN HOLE TEMP 173 DEG @ 9,758'.
5:00	6:00	1.00	21INDR	TRIP	DRILL	P	PUMPING OUT OF THE HOLE DUE TO POOR BIT ROP FROM 9,758' TO 9,100'
6:00	11:00	5.00	21INDR	TRIP	DRILL	P	PUMPING OUT OF THE HOLE FROM 9,100' TO 2,882'. ENCOUNTERING OVER PULLS OF 119K TO 80K FROM 9,758' TO 7,705'. 90K TO 50K FROM 7,705' TO 6,700' AND 70K TO 35K FROM 6,700' TO 6,210'.
11:00	11:30	0.50	21INDR	SRFEQ	RIGUP	P	REMOVE ROTATING RUBBER.
11:30	12:00	0.50	21INDR	TRIP	DRILL	P	MONITOR WELL BORE. STATIC.
12:00	13:00	1.00	21INDR	TRIP	DRILL	P	PULL OUT OF THE HOLE FROM 2,882' TO 1,323'.
13:00	15:00	2.00	21INDR	TRIP	BHA	P	HANDLE BHA, STAND BACK HWDP AND DC'S, BREAK BIT.
15:00	18:00	3.00	21INDR	TRIP	DRILL	P	LAY DOWN MWD, MUD MOTOR AND POWER DRIVE (RSS)
18:00	20:00	2.00	21INDR	TRIP	DRILL	P	MOVE HEAVY WEIGHT PIPE IN DERRICK.
20:00	22:00	2.00	21INDR	TRIP	DRILL	P	PICK UP 12.5" INSERT BIT AND MAKE UP NEW DIRECTIONAL DRILLING ASSEMBLY.
22:00	0:00	2.00	21INDR	TRIP	DRILL	P	TALLY 28 JOINTS, PICK UP 28 JOINTS OF DRILL PIPE FROM PIPE RACK AND TRIP IN HOLE.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	154.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	154.00	OVERCAST AT 28 DEGREES

Incident Comments:
No incidents reported last 24 hours. 3 Safe work permits issued.
1 Hot work permit issued.

Other Remarks: RIG FUEL ON HAND = 12084 GALS. RIG FUEL USED = 2120 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 14
BOTH CREWS HELD WELL CONTROL DRILL.

24 HOUR MUD LOSS = 35
TOTAL MUD LOSS = 8669 BBL

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU81308

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Burrville Federal 3-1

2. Name of Operator
OXY USA Inc.

9. API Well No.
43-041-30059

3a. Address
P.O. Box 27757
Houston, TX 77227-7757

3b. Phone No. *(include area code)*
(970) 263-3613

10. Field and Pool or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Section 3, Township 25 South, Range 1 West, SLB&M
At surface: 2325' FNL, 2235' FEL, being in SW4NE4 At prod. zone: 1155' FNL, 2225' FEL, being in NW4NE4

11. Country or Parish, State
Sevier, UT (041)

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. (OXY) is providing notice to the change in the drilling plan for the Burrville Federal 3-1 well located in Sevier County, UT. OXY has set the 9 5/8", 53 1/2# HCL-80 casing at a depth of 10,217' MD. Because there was no salt and no pay identified OXY plans to recover the 9 5/8" casing, so the top of cement is at 8,800', 500' above the Twin Creek formation. Verbal approval of this plan was received by Al McKee with the BLM in late March, 2009.

RECEIVED
APR 21 2009
DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR
Date: 4.28.2009
Initials:

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Rusty Hanna

Title Drilling Engineer

Signature

Date 4/20/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Pet. Eng.

Date 4/23/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office DOGM

Federal Approval Of This Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

T25S R01W S-03 43-047-30859

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/24/2009

Report No: 86

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	56.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation: NAVAJO@9,520.0 Lithology: SAND

Current Ops: TRIPPING IN HOLE AT 7136'

24-Hr Summary: ATTEPT DP CONEYED LOGS, POOH, START CLEAN OUT RUN FOR CASING.

24-Hr Forecast: MAKE CLEAN OUT RUN FOR INTERMEDIATE CASING., POOH TO RUN 9.625' CASING.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	/	Pump Rate:	418.6	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:		Pump Press:	1,200.0	Trip:		
Last BOP Press Test:		Torq Off Btm:				Backgr:		
Form Test/EMW:	FIT	Torq On Btm:						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	28
Total on Site:	30

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR-10	12.250	BAKER HUGHES INTE	HR-S68DX	6072095	647	3x24	10,234.0	10,234.0	1-2-WT-G	2-I-WT-TD

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.0
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 10,234.0	Pf / Mf:	0.2 / 0.6
Density @ Temp:	10.40 / 89	Chlorides:	165,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	75.00	CaCl2:	
PV / YP:	20 / 22	Clom:	
Gels 10s/10m/30m:	11 / 23 / 29	Lime:	
API WL:	9.60	ES:	
HTHP WL:	15.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	13.40 / 5.00	Carbonate:	
Oil / Water:	/ 86.6	Bicarbonate:	
Sand:	0.05	Form Loss:	20.0 / 9,270.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	5.00 / 45.66		

VG Meter: 9@3 / 10@6 / 19@100 / 31@200 / 42@300 / 62@600

Comments: HIT BRIDGE WITH CONVEYED LOGGS AT 7400 AND PUSHED THROUGH. LOST SIGNAL WITH TOOL AT 8495. TOOH WITH NO PROBLEMS. CURRENTLY TIH TO PERFORM CLEAN UP RUN AND

LAST OR CURRENT BHA

BHA No: 15 Bit No: RR-10 MD In: 10,234.0 ft

Purpose: CLEAN OUT FOR CASING MD Out: 10,234.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
BIT SUB	8.000	2.875	1	3.05
DRILL COLLAR	8.000	2.875	8	236.54
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	2.688	15	455.38
DRILLING JAR	6.500	2.688	1	31.01
HWDP	5.000	3.062	3	91.07
DRILL PIPE	5.000	3.000		9,412.39

Total Length: 821.61 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	2.00
DRILLSTAR HT	25 LB/SK	11.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NOFOAM X	5 GAL/CN	2.00
TAX	EACH	1.00
WALNUT PLUG M	50 LB/SX	5.00

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APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/24/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 86

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	21INEV	LOG	DPLOG	P	PERFORMED DRILLPIPE CONVEYED LOGS FROM 7700' TO 8400' IN DOWN DIRECTION. GAMMA, 2 CALIPERS, MSFL, LLS AND LLD. RAN IN WITH LOGGS TO 7420' HIT BRIDGE SAT DOWN 10K OF COMPRESSION ON TOOLS BELOW PIPE. HAD 3K COMPRESSION AT 8528'. PUSHED THROUGH AND LOST SIGNAL TO TOOLS.
1:30	2:30	1.00	21INEV	LOG	DPLOG	PT	TROUBLE SHOOT SURFACE LOGGING EQUIPMENT.
2:30	4:00	1.50	21INEV	LOG	DPLOG	P	PULL OUT OF HOLE TO 7158'(50-70KOVER). SIDE ENTRY SUB AT SURFACE. UNLATCH FROM LOGGING TOOLS AND LATCH BACK UP. NO SIGNAL. FINAL INTERVALS LOGGED THREE WIRE LINE RUNS ONE PIPE CONVEYED NGRT 8550' - 2884' DLLT 8626' - 2884' DSN 8576' - 2884' CSNG 8528' - 2884' BCS 7420' - 2884' XRMI 7402' - 2907'
4:00	5:00	1.00	21INEV	LOG	DPLOG	P	UNLATCH AND PULL WIRELINE OUT OF HOLE.
5:00	6:30	1.50	21INEV	LOG	RIGUP	PT	INSPECTED LATCH ASSEMBLY. ENCOUNTERED BAD WET CONNECT. DRESS NEW ONE.
6:30	7:30	1.00	21INEV	LOG	RIGUP	PT	INSTALLED SIDE ENTRY SUB; RAN NEW WET CONNECT LATCHED UP ATTEMPTED TO POWER UP TOOLS WITH OUT SUCCESS.
7:30	9:00	1.50	21INEV	LOG	RIGUP	PT	PULLED WIRELINE; INSPECTED WET CONNECT. (CONNECTION BURNT) USED THE BURNT WET CONNECT AND POWERED UP BACK UP TOOLS ON CAT WALK.
9:00	11:00	2.00	21INDR	CIRC	CNDHOL	P	CIRCULATED BOTTOMS UP AT 7298' WITH 420 GPM / 850 PSI. RECIPROCATED STRING WITH 236K UP 220K DOWN.
11:00	15:30	4.50	21INDR	LOG	DPLOG	P	TRIPPING OUT OF HOLE TO LAY DOWN LOGGING TOOLS. PULLING OUT AT 7298' WITH 235K WITH OUT PUMPS.
15:30	20:00	4.50	21INDR	LOG	RIGUP	P	L/D LOGGING TOOLS. (THE SOND SECTION OF THE DUAL LATERAL LOG SHOP CONNECTION WAS BROKE AND BACKED OFF 2 TURNS. BOTH PADS ON THE MSFL TOOL DAMAGED.
20:00	0:00	4.00	21INDR	TRIP	COND	P	MADE UP INSERT BIT, TRIPPED IN HOLE TO 7136.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 8056 GALS. RIG FUEL USED = 2120 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 20
TOTAL MUD LOSS = 9518 BBL

T 25S R 1W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 03/25/2009
Report No: 87

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	57.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	NAVAJO@9,520.0			Lithology:	SAND		
Current Ops:	CIRC & COND MUD FOR CASING						
24-Hr Summary:	W&R F/ 7136' TO 7460', CBU, W&R F/ 7460' TO 7592', TIH TO 9468', W&R TO 10,234', C&C MUD AT CSG POINT						
24-Hr Forecast:	CIRC & COND, POOH, LD BHA, PULL WEAR RING, CHANGE RAM INSERTS, TEST DOOR SEALS, RU & RUN 9 5/8" CSG						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	362.0/ 290.0 kip	Pump Rate:	753.5	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	307.0 kip	Pump Press:	3,300.0	Trip:		
Last BOP Press Test:	03/04/2009	Torq Off Btm:	12,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	3
Contractor Personnel:	22
Total on Site:	25

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR-10	12.250	BAKER HUGHES INTE	HR-S68DX	6072095	647	3x24	10,234.0	10,234.0	1-2-WT-G	2-I-WT-TD

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
RR-10	0.00	0.00	0.0	0.0	0.0	0.0	2.0/16.0	45/75	1.325	303.8	181.6	1.1

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	9.9
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	23:59 / 10,234.0	Pf / Mf:	0.2 / 0.6
Density @ Temp:	10.50 / 128	Chlorides:	160,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	73.00	CaCl2:	
PV / YP:	20 / 22	Clom:	
Gels 10s/10m/30m:	11 / 26 / 33	Lime:	
API WL:	10.00	ES:	
HTHP WL:	16.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	13.10 / 5.00	Carbonate:	
Oil / Water:	/ 86.9	Bicarbonate:	
Sand:	0.05	Form Loss:	21.0 / 9,291.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.90 / 35.47		

VG Meter: 9@3 / 10@6 / 21@100 / 33@200 / 42@300 / 62@600

Comments: TIH FOR CLEAN UP RUN. AT 7475, HIT BRIDGE AT 7475 AND REAMED THROUGH. SENT 30 BBL HIGH VIS SWEEPS. HIT BRIDGE AT 9468 AND REAMED TO 10234. SENT THREE 30 BBL LOW

LAST OR CURRENT BHA

BHA No: 15 Bit No: RR-10 MD In: 10,234.0 ft
Purpose: CLEAN OUT FOR CASING MD Out: 10,234.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
BIT SUB	8.000	2.875	1	3.05
DRILL COLLAR	8.000	2.875	8	236.54
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	2.688	15	455.38
DRILLING JAR	6.500	2.688	1	31.01
HWDP	5.000	3.062	3	91.07
DRILL PIPE	5.000	3.000		9,412.39

Total Length: 821.61 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	8.00
DRILLSTAR HT	25 LB/SK	12.00
DYNAFIBER M	25 LB/SX	16.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	50.00
NEW BAR	100 LB/SX	240.00
NEWEASE 203	55 GAL/DRUM	2.00
SALTGEL	50 LB/SX	140.00
SEA MUD	50 LBS/SK	60.00
SHRINK WRAP	EA.	19.00
TAX	EACH	1.00

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APR 27 2009
DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/25/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 87

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	21INEV	REAM	RMTGT	P	REAMED FROM 7136' TO 7460'. PUMPED 60 BBL HIGH VISCOSITY SWEEP ROTARY 70 BIT/WT 1-5K TQ 6-9K GPM 775-800
1:30	2:30	1.00	21INEV	CIRC	CNDHOL	P	CIRCULATED AND CONDITIONED HOLE. BOTTOMS UP PUMPED 790 GPM. 70 ROTARY. SWEEP BROUGHT BACK HEAVY CUTTINGS VARIOUS SIZES.
2:30	3:30	1.00	21INEV	REAM	RMTGT	P	BRIDGED @ 7475' REAMED FROM 7460' TO 7592. WT. ON BIT 2-20K TQ 9-15 K GPM 775 3200 PSI ROTARY 45
3:30	5:00	1.50	21INEV	TRIP	COND	P	TRIP IN HOLE STATIC FROM 7592' TO 9468' BRIDGE @ 9468'
5:00	6:30	1.50	21INEV	REAM	RMTGT	P	REAMED FROM 9460' TO 9552' . WT. ON BIT 2-6 K TQ. 12 - 18 K GPM 750 3350 PSI ROTARY 65
6:30	19:30	13.00	21INEV	REAM	RMTGT	P	REAMED FROM 9552' TO 10,234' . WT. ON BIT 2-6 K TQ. 12 - 18 K GPM 750 3350 PSI ROTARY 65
19:30	0:00	4.50	21INEV	CIRC	CNDFLD	P	CIRC & COND MUD FOR CASING, PUMPED 2 - 150 BBL HIGH VIS SWEEPS, RAISE MW F/ 10.2 TO 10.5 PPG & OPTIMIZE MUD PROPERTIES TQ. 12 - 15 K GPM 750 3290 PSI ROTARY 75
Total Time		24.00					

Safety Incident? N **Days since Last RI:**
Environ Incident? N **Days since Last LTA:**
Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
BLOWING SNOW 33 DEGREES

Other Remarks:
RIG FUEL ON HAND = 4664 GALS. RIG FUEL USED = 3390 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 8

24 HOUR MUD LOSS = 21
TOTAL MUD LOSS = 9549 BBL

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/26/2009

Report No: 88

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	58.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	NAVAJO@9,520.0			Lithology:	SAND		
Current Ops:	RU TO TEST BOP CAVITY						
24-Hr Summary:	C&C FOR CSG, SERV RIG, PUMP OUT OF HOLE REAMING TIGHT SPOTS TO 5900',POOH, PULL WR, C.O. UPPER PIPE RAMS						
24-Hr Forecast:	TEST BOP DOOR SEALS, MIRU WEATHERFORD CSG EQUIP, RUN 9 5/8" CSG, C&C, CEMENT						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	340.0/ 275.0 kip	Pump Rate:	376.7	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:	290.0 kip	Pump Press:	1,000.0	Trip:		
Last BOP Press Test:		Torq Off Btm:	12,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	22
Total on Site:	24

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR-10	12.250	BAKER HUGHES INTE	HR-S68DX	6072095	647	3x24	10,234.0	10,234.0	1-2-WT-G	2-I-WT-TD

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
RR-10		0.00		0.0	0.0	0.0	3.0/15.0	35/55	1.325	79.9	92.2	0.2

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	9.7
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 10,234.0	Pf / Mf:	0.1 / 0.6
Density @ Temp:	10.50 / 89	Chlorides:	160,000
Rheology Temp:		Ca+ / K+:	/
Viscosity:	68.00	CaCl2:	
PV / YP:	16 / 22	Clom:	
Gels 10s/10m/30m:	11 / 25 / 33	Lime:	
API WL:	10.20	ES:	
HTHP WL:	16.40	ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	/ 5.40	Carbonate:	
Oil / Water:	/ 86.5	Bicarbonate:	
Sand:	0.05	Form Loss:	28.0 / 9,319.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.70 / 43.00		

VG Meter: 8@3 / 11@6 / 21@100 / 30@200 / 38@300 / 54@600

Comments: CIRCULATED AND CONDITIONED MUD FOR CASING. PUMPED 80 BBL. LOW VIS. SWEEPS FOLLOWED BY 150BBL. HIGH VIS. SWEEPS, TWICE. FIRST SWEEP BROUGHT BACK CUTTINGS

LAST OR CURRENT BHA

BHA No: 15 Bit No: RR-10 MD In: 10,234.0 ft

Purpose: CLEAN OUT FOR CASING MD Out: 10,234.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
BIT SUB	8.000	2.875	1	3.05
DRILL COLLAR	8.000	2.875	8	236.54
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	2.688	15	455.38
DRILLING JAR	6.500	2.688	1	31.01
HWDP	5.000	3.062	3	91.07
DRILL PIPE	5.000	3.000		9,412.39

Total Length: 821.61 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	4.00
DRILLSTAR HT	25 LB/SK	1.00
DRILLTHIN	25 LB/SX	1.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	24.00
FLOW-ZAN	25 LB SX	9.00
NEW BAR	100 LB/SX	12.00
NEWEDGE	50 LB/SX	12.00
SALTGEL	50 LB/SX	67.00
SEA MUD	50 LBS/SK	11.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/26/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 88

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	21INEV	CIRC	CNDFLD	P	CIRC & COND MUD FOR CASING, PUMPED 2 - 150 BBL HIGH VIS SWEEPS, OPTIMIZE MUD PROPERTIES TQ. 12 - 15 K GPM 750 3290 PSI ROTARY 75
2:30	3:00	0.50	21INEV	RIGMT	SRVRIG	P	SERVICE RIG & C.O. WORN TOP DRIVE GRABBER DIES
3:00	15:30	12.50	21INEV	TRIP	DRILL	P	PUMP OUT OF HOLE FOR CASING. FROM 10234' TO 5900' REAM 50K OVERPULLS AT 9614' 9254' 8947' 7818' 7665' - 7640' 7280' - 7270' BLOW KELLY - MONITOR WELL BORE STATIC
15:30	19:30	4.00	21INEV	TRIP	DRILL	P	POOH ON ELEVATORS, STAND BACK DRILL COLLARS & HWDP, BREAK BIT
19:30	20:30	1.00	21INRC	SRFEQ	RIGUP	P	PULL WEAR RING, INSTALL TEST PLUG
20:30	0:00	3.50	21INRC	BOP	CHRAMS	P	CHANGE OUT UPPER 5" PIPE RAMS INSERTS TO 9 5/8" SOLID BODY
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	COLD, 6" SNOW ACCUMULATION, 6 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND = 10,812 GALS. RIG FUEL USED = 2332 GALS. RECEIVED 8000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 8

24 HOUR MUD LOSS = 28
TOTAL MUD LOSS = 9577 BBL

T25S R01WS-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/27/2009

Report No: 89

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	59.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	NAVAJO@9,520.0			Lithology:	SAND		
Current Ops:	RUNNING 9 5/8" CASING AT 6200'						
24-Hr Summary:	C.O. RAM INSERTS, TEST BOP DOOR SEALS, RU & RUN INTM CSG						
24-Hr Forecast:	RUN & LAND CSG, CIRC & COND, CMT & DISP, SET PACK OFF, TEST BOP & CSG						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	/	Pump Rate:	150.7	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:		Pump Press:	1,575.0	Trip:		
Last BOP Press Test:		Torq Off Btm:				Backgr:		
Form Test/EMW:	FIT	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	35
Total on Site:	37

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
RR-10	12.250	BAKER HUGHES INTE	HR-S68DX	6072095	647	3x24	10,234.0	10,234.0	1-2-WT-G	2-I-WT-TD

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	9.8
Mud Type:	OTHER	Pm / Pom:	
Time / MD:	0:01 / 10,234.0	Pf / Mf:	0.1 / 0.6
Density @ Temp:	10.40 / 77	Chlorides:	160,000
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	52.00	CaCl2:	
PV / YP:	13 / 19	Clom:	
Gels 10s/10m/30m:	11 / 16 / 27	Lime:	
API WL:	10.80	ES:	
HTHP WL:	16.70	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	12.60 / 4.40	Carbonate:	
Oil / Water:	/ 87.0	Bicarbonate:	
Sand:	0.05	Form Loss:	19.0 / 9,338.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	3.60 / 32.00		

VG Meter: 9@3 / 10@6 / 16@100 / 23@200 / 32@300 / 45@600

Comments: FINISHED CHANGING UPPER PIPE RAMS AND RIGGING UP CASERS EQUIPMENT WITH NO PROBELMS. CASED TO 6119 WITH NO HOLE PROBLEMS. CURRENTLY RUNNING 9 5/8 CASING.

LAST OR CURRENT BHA

BHA No: 15 Bit No: RR-10 MD In: 10,234.0 ft

Purpose: CLEAN OUT FOR CASING MD Out: 10,234.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	12.250	3.000	1	1.30
BIT SUB	8.000	2.875	1	3.05
DRILL COLLAR	8.000	2.875	8	236.54
CROSSOVER	8.000	2.750	1	3.26
HWDP	5.000	2.688	15	455.38
DRILLING JAR	6.500	2.688	1	31.01
HWDP	5.000	3.062	3	91.07
DRILL PIPE	5.000	3.000		9,412.39

Total Length: 821.61 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00

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APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/27/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 89

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	21INRC	BOP	CHRAMS	P	FINISH CHANGING UPPER PIPE RAM INSERTS TO 9 5/8"
0:30	1:30	1.00	21INRC	BOP	TSTBOP	P	FILL BOP STACK, RU IPS BOP TESTER & CAVITY TEST BOP, 2000 PSI HIGH 10 MINUTES ON CHART
1:30	2:00	0.50	21INRC	BOP	TSTBOP	P	RD TESTER, PULL TEST PLUG, LD TEST JOINTS
2:00	7:30	5.50	21INRC	CSG	RIGUP	P	PJSM & MIRU WEATERFORD STABBING BOARD, 500 TON CASING TOOLS, FILL UP TOOL, POWER TONGS & LAYDOWN MACHINE.
7:30	9:30	2.00	21INRC	CSG	RIGUP	P	R/U LONGER POWER TONG HANGING LINE, WITH SPARE LAYDOWN MACHINE FAST LINE CABLE. HUNG AND LEVELED UP POWER TONGS.
9:30	17:00	7.50	21INRC	CSG	RUNCSG	P	BUILD 9.625" SHOE TRACK CIRCULATED THROUGH SHOE TRACK WITH FILL UP TOOL. RAN & FILL 9.625" INTERMEDIATE CASING TO 2800'
17:00	18:00	1.00	21INRC	CSG	RUNCSG	P	ESTABLISH CIRCULATION AT SHOE FULL RETURNS 3 BPM AT 1010 PSI PU 222K SO 222K
18:00	19:30	1.50	21INRC	CSG	RUNCSG	P	RAN CASING TO 4300'
19:30	20:00	0.50	21INRC	CSG	RUNCSG	P	ESTABLISH CIRCULATION FULL RETURNS 3 BPM AT 950 PSI PU 272K SO 220K
20:00	22:30	2.50	21INRC	CSG	RUNCSG	P	RAN CASING TO 5800'
22:30	23:00	0.50	21INRC	CSG	RUNCSG	P	ESTABLISH CIRCULATION FULL RETURNS 3.5 BPM AT 1570 PSI PU 360K SO 340K
23:00	0:00	1.00	21INRC	CSG	RUNCSG	P	RAN CASING TO 6200, NO PROBLEMS
Total Time		24.00					

Safety Incident? N **Days since Last RI:**
Environ Incident? N **Days since Last LTA:**
Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
CALM 28 DEGREES

Other Remarks:

RIG FUEL ON HAND = 9328 GALS. RIG FUEL USED = 1484 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 23

24 HOUR MUD LOSS = 19
TOTAL MUD LOSS = 9596 BBL

T26S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/28/2009

Report No: 90

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	60.66
Today's MD:	10,234.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	10,234.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: NAVAJO@9,520.0 **Lithology:** SAND

Current Ops: DISPLACING CEMENT

24-Hr Summary: RUN 9 5/8" INTRM CSG, LAND CSG, RDMO CASERS, MIRU HALCO, MIX & CIRC LCM, CMT & DISPLACE

24-Hr Forecast: DISP CMT,LAND CSG,RD CSG & CMT TOOLS,SET PACK OFF, C.O. 9 5/8" RAM INSERTS,CLEAN PITS,TEST BOPE, MIX MUD

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	272.1	**Conn:**		
Next Casing:	9.625in @ 11,000ft	**Str Wt Rot:**		**Pump Press:**	650.0	**Trip:**		
Last BOP Press Test:		**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	FIT	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	43
Total on Site:	45

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									--	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	9.6
Mud Type:	OTHER	**Pm / Pom:**	
Time / MD:	0:01 / 10,234.0	**Pf / Mf:**	0.1 / 0.5
Density @ Temp:	10.40 / 83	**Chlorides:**	160,000
Rheology Temp:	150	**Ca+ / K+:**	/
Viscosity:	47.00	**CaCl2:**	
PV / YP:	10 / 14	**Clom:**	
Gels 10s/10m/30m:	5 / 12 / 15	**Lime:**	
API WL:	10.60	**ES:**	
HTHP WL:	16.80	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	12.70 / 4.50	**Carbonate:**	
Oil / Water:	/ 86.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	745.0 / 10,083.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.80 / 35.00		

VG Meter: 4@3 / 7@6 / 9@100 / 16@200 / 24@300 / 34@600

Comments: HIT TIGHT SPOT AT 7214 TO 7550. WASHED CASING FROM 10145 TO 10210. LANDED CASING AT 10217. WHILE RIGGING UP LOST RETURNS. PUMPED VARIOUS SIZED LCM TO REGAIN

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
60 \ 40	50 LBS/SK	30.00
BUSAN	40 LB/SX	1.00
CAUSTIC SODA	50 LB/SX	4.00
DRILLSTAR HT	25 LB/SK	5.00
DRILLTHIN	25 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	15.00
NEW BAR	100 LB/SX	100.00
SALTGEL	50 LB/SX	75.00
SEA MUD	50 LBS/SK	25.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/28/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 90

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	21INRC	CSG	RUNCSG	P	RAN 9 5/8" CASING F/ 6200' TO 7214', TAGGED UP AT 7214' W/ 30K SO WT
2:00	2:30	0.50	21INRC	CSG	RUNCSG	P	ESTABLISH CIRCULATION FULL RETURNS 3.5 BPM AT 1730 PSI ICP 3.5 BPM AT 1380 FCP PU 480K SO 380K
2:30	4:00	1.50	21INRC	CSG	RUNCSG	P	RAN CASING AND PUMP THRU INTERMITANT TIGHT SPOTS F/ 7214' TO 7550' 3.5 BPM AT 1340 PSI
4:00	7:30	3.50	21INRC	CSG	RUNCSG	P	RAN 9 5/8' CASING WITH NO FURTHER PROBLEMS TO 9060'
7:30	8:15	0.75	21INRC	CSG	RUNCSG	P	ESTABLIISH CIRCULATION FULL RETURNS. 3.5 BPM 1450 PSI. SO 410K P/U 550K SO 400K P/U 650K SO 360K CASING STRING WOULD NOT BREAK OVER @ P/U 650K
8:15	10:30	2.25	21INRC	CSG	RUNCSG	P	RAN TOTAL 253 JTS. 53.5#, HCL-80, BTC 9 5/8" CASING & 1 MARKER JT. TO 10145' W/ NO PROBLEMS SO 440K MU FMC FLUTED CSG HANGER & LANDING JT.
10:30	12:30	2.00	21INRC	CSG	RUNCSG	P	ESTABLISHED CIRCULATION FULL RETURNS 3.5 BPM AT 2400 PSI ICP 7.5 BPM AT 1950 PSI FCP WASH FROM 10145' TO 10210' SO 420K (P/U 775K CASING STRING WOULD NOT BREAK OVER)
12:30	15:30	3.00	21INRC	CSG	RIGUP	P	R/D FILL TOOL AND CASING RUNNING EQUIPMENT. LAND CASING @ 10217' RKBTMD, INSTALLED HALLIBURTON HEAD.
15:30	16:30	1.00	21INRC	CIRC	CNDHOL	P	STAGE INTO PUMP ESTABLISHED RETURNS 6.5 BPM 650 PSI. OPTIMIZE MUD PROPERTIES FOR CEMENTING. MIRU HALLIBURTON CEMENTERS. LOST RETURNS
16:30	21:00	4.50	21INRC	LCIRC	LCM	P	MIX LCM & PUMP @ 2 BPM 50 PSI. CASING STRING BROKE OVER @ PU 910K SO 420K RECIPROCATE CASING STRING 10212' - 10180' SO 420K PU 675K - 725K INCREASED PUMP RATE TO 3.5 BPM 130 PSI. CLEAR LCM FROM CASING STRING.
21:00	21:30	0.50	21INRC	CMT	RIGUP	P	PJSM ON CEMENT PUMP 3.5 BPM W/ RIG, NO RETURNS RECIPROCATE CASING STRING 10212' - 10180' HAND OVER TO HALCO TEST LINES TO 5000 PSI
21:30	0:00	2.50	21INRC	CMT	PRIM	P	CEMENT PER PROGRAM AT 6 BPM, NO RETURNS 40 BBL 12PPG WEIGHTED REACTIVE SPACER 346 SX 13.1 PPG 1.55 YLD VARACHEM CEMENT, 95.5 BBL SLURRY DROP TOP PLUG DISPLACE CMT W/ FRESH WATER AT 6 BPM, ACHIEVED FULL RETURNS W/ 295 BBL DISP AWAY AT 632 PSI RECIPROCATE PIPE THROUGH OUT CMT & DISP PU 650-800K SO 400K 560 BBL OF 716 BBL DISP COMPLETE AT 00:00 HRS
Total Time		24.00					

Safety Incident? N **Days since Last RI:**
Environ Incident? N **Days since Last LTA:**
Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
CLEAR 20 DEGREES

Other Remarks: RIG FUEL ON HAND = 7632 GALS. RIG FUEL USED = 1696 GALS. RECEIVED 0 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 21

24 HOUR MUD LOSS = 745
TOTAL MUD LOSS = 10,341 BBL

T25S R 0W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/29/2009

Report No: 91

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	61.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	NAVAJO@9,520.0			Lithology:	SAND		
Current Ops:	SLIP & CUT DRILLING LINE						
24-Hr Summary:	DISP CMT, C.O. TOP RAMS, TEST BOPE, SERV RIG, LD 8" DC'S, CLEAN PITS, MIX MUD						
24-Hr Forecast:	CUT DRLG LINE, MU 8 1/2" RSS BHA, TIH, MIT, PERFORM CHOKE DRILL, DRILL OUT, DRILL 20', FIT, DRILL PROD HOLE						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	13.375in @ 2,885ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:		
Next Casing:	9.625in @ 11,000ft	Str Wt Rot:		Pump Press:	0.0	Trip:		
Last BOP Press Test:		Torq Off Btm:				Backgr:		
Form Test/EMW:	FIT	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	35
Total on Site:	37

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	-1,086.0	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	-1,086.1	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	-1,085.3	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	-1,080.6	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	-1,077.9	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	-1,075.8	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									--	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / JOHN R. P	MBT:	7.5 lbm/bbl
Sample From:	PIT	pH:	10.0
Mud Type:	FRESH WATER POLYMER W	Pm / Pom:	
Time / MD:	0:01 / 10,234.0	Pf / Mf:	0.3 / 0.6
Density @ Temp:	8.50 / 38	Chlorides:	900
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	34.00	CaCl2:	
PV / YP:	2 / 5	Clom:	
Gels 10s/10m/30m:	2 / 3 / 4	Lime:	
API WL:		ES:	
HTHP WL:		ECD:	
Cake API / HTHP:	2.0 /	n / K:	/
Solids / Sol Corr:	1.20 / 1.20	Carbonate:	
Oil / Water:	/ 98.8	Bicarbonate:	
Sand:		Form Loss:	0.0 / 10,083.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	1.20 / 10.00		

VG Meter: 1@3 / 1@6 / 3@100 / 5@200 / 7@300 / 9@600

Comments: COMPLETED CEMENTING OPERATIONS. DRAINED AND CLEANED MUD PITS. FILLED PITS WITH FRESH WATER. LAID DOWN 8" DRILL COLLARS. TESTED BOP. CONTINUING MUD UP TO

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
SALTGEL	50 LB/SX	33.00
SEA MUD	50 LBS/SK	2.00
TAX	EACH	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/29/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 91

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	21INRC	CMT	PRIM	P	CONT. DISPLACE CMT AT 6 BPM RECIPROCATING CSG W/ FULL RETURNS BUMP PLUG W/ CALCULATED 716.8 BBL FRESH WATER FCP AT 2 BPM 1480 PSI CIP AT 00:30 HRS INCREASE PRESSURE TO 2480, HELD 15 MINUTES BLED BACK 5 BBLS FLOATS HELD LAND CSG ON HANGER W/ 400K STRING TENSION CALCULATED TOC AT 8,611' MD
1:00	1:30	0.50	21INRC	CMT	RIGUP	P	RDMO HALCO CEMENTERS
1:30	4:00	2.50	21INRC	CSG	RIGUP	P	LD LANDING JOINT FLUSH STACK PU 2 JTS DP, SET 9 5/8" FMC PACK OFF TEST PO TO 5000 PSI 5 MINUTES START CLEANING MUD PITS
4:00	9:00	5.00	21INRC	BOP	RIGUP	P	CHANGE OUT TOP PIPE RAMS TO 5"
9:00	17:00	8.00	21INDR	BOP	TSTBOP	P	TEST BOPE EQUIPMENT & ASSOCIATED VALVES W/ IPS TESTERS 250 LOW/ 5000 HIGH 5 MINUTES EACH TEST 2500 PSI ON HYDRIL FINISHED CLEANING MUD PITS START MIXING PHPA MUD
17:00	18:00	1.00	21INDR	RIGMT	SRVRIG	P	SERVICE RIG, BLOW DOWN TOP DRIVE & CHOKE MANIFOLD
18:00	19:30	1.50	21INDR	BOP	TSTBOP	P	PU 2 JTS DP & SET 9 1/4" ID SHORT WEAR BUSHING LDDP
19:30	20:30	1.00	21INDR	SRFEQ	RIGUP	P	PU RU DRILLING BALES & 5" ELEVATORS REHANG ROTARY TONGS
20:30	0:00	3.50	21INDR	TRIP	PULD	P	LD 11- 8" DC'S & DIRTY DRILLING JARS IN MOUSEHOLE LD 6 5/8" REGULAR HANDLING SUBS FINISH MIXING 660 BBL PHPA MUD
Total Time		24.00					

Safety Incident? N **Days since Last RI:**

Environ Incident? N **Days since Last LTA:**

Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
SNOWING 5 DEGREES

Other Remarks:

RIG FUEL ON HAND = 14,204 GALS. RIG FUEL 1696 USED = GALS. RECEIVED 8000 GALLONS.

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 17

24 HOUR MUD LOSS = 0
TOTAL MUD LOSS = 0

T25S R01W S-03 43-047-30089

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/30/2009

Report No: 92

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	62.66
Today's MD:	10,234.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	NAVAJO@9,520.0			Lithology:			
Current Ops:	DRILLING NEW FORMATION 10,234'						
24-Hr Summary:	CUT DRLG LINE, PU BHA # 16, RIH, CIRC, TEST CSG, CHOKE DRILL, DRILL SHOE TRACK						
24-Hr Forecast:	DRILL 20' NEW FORMATION, PERFORM LOT, DRILL 8 1/2" PROD HOLE						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	380.0/ 280.0 kip	Pump Rate:	397.7	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	321.0 kip	Pump Press:	1,550.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:	12,000.0 ft-lbf			Backgr:		
Form Test/EMW:	FIT	Torq On Btm:	13,000.0 ft-lbf					

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	1,060.7	0.00	0.00
10,187.0	0.06	188.73	10,031.62	1,081.7	177.6	1,060.7	1.28	-1.16
10,092.0	1.16	337.21	9,936.62	1,080.8	177.9	1,059.8	0.73	-0.56
9,924.0	2.10	6.06	9,768.69	1,076.2	178.3	1,055.2	0.96	0.94
9,828.0	1.20	358.46	9,672.73	1,073.5	178.1	1,052.5	0.17	-0.13
9,733.0	1.32	353.60	9,577.75	1,071.4	178.3	1,050.4	0.95	0.94

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	MBT:	17.5 lbm/bbl
Sample From:	PIT	pH:	10.4
Mud Type:	LOW SOLIDS / NON-DISPER	Pm / Pom:	
Time / MD:	23:59 / 10,234.0	Pf / Mf:	0.5 / 0.8
Density @ Temp:	8.50 / 69	Chlorides:	1,100
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	44.00	CaCl2:	
PV / YP:	11 / 17	Clom:	
Gels 10s/10m/30m:	6 / 16 / 21	Lime:	
API WL:	8.20	ES:	
HTHP WL:	15.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	1.90 / 1.20	Carbonate:	
Oil / Water:	/ 98.1	Bicarbonate:	
Sand:	0.00	Form Loss:	0.0 / 10,083.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	1.20 / 10.88		

VG Meter: 5@3 / 6@6 / 17@100 / 21@200 / 28@300 / 39@600

Comments: CONTINUED MUDDING UP TO FIT MUD SPECS. BEGAN TIH. TESTED CASING AND CHOKE. TAGGED FLOAT AT 10135 AND BEGAN DRILL OUT.

LAST OR CURRENT BHA

BHA No: 16 Bit No: 13 MD In: 10,234.0 ft

Purpose: MAINTAIN VERTICAL HOLE MD Out: 11,859.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.437	2.437	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.13
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.93 ft Wt below Jars: 47,506.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL	100 LBS/SK	245.00
NEWPAC R	50 LB/SX	6.00
PALLETS	EA.	29.00
SHRINK WRAP	EA.	18.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 03/30/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 92

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	31PRDR	RIGMT	SRVRIG	P	SLIP & CUT 100' DRILLING LINE
3:00	10:30	7.50	31PRDR	TRIP	BHA	P	PU 8 1/2" ROTARY STEERABLE BHA # 16 RIH TO 922'
10:30	11:00	0.50	31PRDR	CIRC	CNDFLD	P	SHALLOW TEST MWD TOOLS. 405 GPM 960 PSI. INSTALLED CORROSION RING.
11:00	18:00	7.00	31PRDR	TRIP	DRILL	P	RIH TO 10018' FILL PIPE PIPE EVERY 2500' BREAK CIRCULATION 390 GPM 1230 PSI. PU 380K SO 285K
18:00	19:00	1.00	31PRDR	CIRC	CNDFLD	P	CIRCULATED AND CONDITIONED FLUID INSTALLED ROTATING HEAD. TAGGED @ 10135'
19:00	20:00	1.00	31PRDR	CSG	PIPE	P	ATTEMPT TO TEST CASING W/ RIG EQUIPMENT W/ NO SUCCESS, UNABLE TO GET RIG SURFACE EQUIPMENT 4" & 5" DEMCO VALVES TO HOLD SHUT IN PRESSURE
20:00	21:00	1.00	31PRDR	BOP	TSTBOP	P	GET SPR'S, PERFORM ON CHOKE DRILL & CHOKE INTEGRITY TEST, CLOSE HYDRIL & SIMULATE 300 PSI SICP, CIRCULATE ON CHOKE HOLDING 300 PSI BACKPRESSURE ON CHOKE, 650 SPP FULL CREW, TOOLPUSHER & DSM PARTICIPATION
21:00	22:00	1.00	31PRDR	DRLOUT	DOCMT	P	TEST CASING TO 1500 PSI FOR 30 MINUTES ON CHART UTILIZED IPS TESTERS FOR TEST
22:00	22:30	0.50	31PRDR	RIGMT	SRVRIG	P	BLOW DOWN CHOKE & DRAIN GAS BUSTER
22:30	0:00	1.50	31PRDR	DRLOUT	DOCMT	P	DRILL SHOE TRACK & CEMENT TO 10,234'
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	BREEZY 12 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND = 12296 GALS. RIG FUEL 1908 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 17

4" DEMCO VALVES ON MUD PUMPS NEEDS REBUILT
5" DEMCO VALVE ON STAND PIPE NEEDS REBUILT
DERRICK CAMERA FOR TOP DRIVE MONITORING UNOPERABLE

24 HOUR MUD LOSS = 0
TOTAL MUD LOSS = 0

T 25S R 01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 03/31/2009

Report No: 93

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	63.66
Today's MD:	10,657.0 ft	Progress:	423.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	10,234.0 ft	Rot Hrs Today:	20.00 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	21.2 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation:	NAVAJO@9,520.0 Lithology: 100% SANDSTONE
Current Ops:	DRILLING 8 1/2" PRODUCTION HOLE AT 10,657'
24-Hr Summary:	DRILL F/ 10234' TO 10254', C&C, PERFORM LOT, DRILL F/ 10,254' TO 10428', SERV RIG, DRILL F/ 10,428' TO 10,657'
24-Hr Forecast:	DRILL AHEAD

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	390.0/ 275.0 kip	Pump Rate:	523.3	Conn:	0	0
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	315.0 kip	Pump Press:	2,750.0	Trip:	0	0
Last BOP Press Test:	03/29/2009	Torq Off Btm:	12,000.0 ft-lbf			Backgr:	0	0
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:	13,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,647.0	0.09	357.56	10,491.61	1,082.1	177.9	1,061.1	0.09	0.03
10,550.0	0.06	294.26	10,394.61	1,082.0	177.9	1,061.0	0.11	0.00
10,455.0	0.06	166.17	10,299.61	1,082.1	178.0	1,061.1	0.44	-0.33
10,361.0	0.37	36.48	10,205.61	1,081.9	177.8	1,060.9	0.37	0.36
10,266.0	0.03	89.06	10,110.62	1,081.6	177.6	1,060.7	0.22	-0.09
10,234.0	0.06	188.73	10,078.62	1,081.6	177.6	1,060.7	0.00	0.00

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
13	20.00	20.00	423.0	423.0	21.2	21.2	5.0/16.0	14/40	0.552	694.1	302.1	3.7

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	17.5 lbm/bbl
Sample From:	PIT	pH:	10.0
Mud Type:	LOW SOLIDS / NON-DISPER	Pm / Pom:	
Time / MD:	23:59 / 10,651.0	Pf / Mf:	0.5 / 0.8
Density @ Temp:	8.60 / 121	Chlorides:	500
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	56.00	CaCl2:	
PV / YP:	13 / 19	Clom:	
Gels 10s/10m/30m:	8 / 17 / 24	Lime:	
API WL:	7.40	ES:	
HTHP WL:	15.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	2.00 / 2.00	Carbonate:	
Oil / Water:	/ 98.0	Bicarbonate:	
Sand:	0.05	Form Loss:	24.0 / 10,107.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.00 / 18.14		

VG Meter: 4@3 / 6@6 / 15@100 / 24@200 / 32@300 / 45@600

Comments: DRILLED OUT CEMENT WITH NO PROBLEMS AND PERFORMED FIT TEST. DRILLED FROM 10234 - 10654. CONDITIONING MUD AS NEEDED AND SENDING HIGH VIS LCM

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	2.00
DRILLSTAR HT	25 LB/SK	1.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	7.00
NEW GEL HY	50 LBS/SK	126.00
NEW PHPA DSL	50 LBS/SK	6.00
NEWPAC R	50 LB/SX	1.00
SALT	50 LB/SX	3.00
SAWDUST	2000 LBS/SK	7.00
SODA ASH	50 LBS/SK	6.00
TAX	EACH	1.00

LAST OR CURRENT BHA

BHA No: 16 Bit No: 13 MD In: 10,234.0 ft

Purpose: MAINTAIN VERTICAL HOLE MD Out: 11,859.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.437	2.437	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.13
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.93 ft Wt below Jars: 47,506.0 kip

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APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | **BURRVILLE FEDERAL 3-1** | **Date:** 03/31/2009

Prim. Reason: ORIG DRILL DIR | **USA** | **Report No:** 93

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,234' TO 10,254', 20' AT 15 FPH. DRILLING WITH RSS. WOB 5K; RPM: 30; TQ ON BTTM = 14K OFF BTTM = 13 K, 500 GPM = 2270 PSI UP WT= 380K; DN WT= 280K; RT WT= 321K FLOW 4 % LATERAL VIBS = 2.5 STICK SLIP = 25% WT IN 8.5 PPG. WT OUT 8.5 PPG
1:00	2:00	1.00	31PRDR	CIRC	CNDFLD	P	CIRCULATE & CONDITION FLUID FOR LOT
2:00	4:30	2.50	31PRDR	DRLOUT	FST	P	PERFORM LOT W/ IPS TESTERS AT 10,254' TVD 10,097' MW 8.5 PUMP 1/4 BPM TO 2400 PSI W/ 11 BBLS PRESSURE STOPPED BUILDING AT 2400 PSI UNABLE TO PUMP FASTER THAN 1/4 BPM TO BREAK DOWN FORMATION PUMP 3 BBLS INTO FORMATION AT 2400 PSI SHUT IN AND MONITORED PSI F/ 10 MINUTES PRESSURE BLED & STABALIZED AT 2325 PSI BLED BACK 5.5 BBLS EMW CALCULATED AT 12.9 PPG
4:30	11:00	6.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,254' TO 10,428', 174' AT 26.8 FPH. DRILLING WITH RSS. WOB 5-16K; RPM: 15-30; TQ ON BTTM = 12K OFF BTTM = 11 K, 500 GPM = 2270 PSI UP WT= 390K; DN WT= 270K; RT WT= 315K FLOW 4 % LATERAL VIBS = 1.5 STICK SLIP = 25% WT IN 8.5 PPG. WT OUT 8.5 PPG
11:00	11:30	0.50	31PRDR	DRILL	RSS	P	SERVICE RIG, BOP DRILL
11:30	0:00	12.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,428' TO 10,657', 229' AT 18.3 FPH. DRILLING WITH RSS. WOB 5-16K; RPM: 15-30; TQ ON BTTM = 12K OFF BTTM = 11 K, 500 GPM = 2270 PSI UP WT= 392K; DN WT= 280K; RT WT= 317K FLOW 4 % LATERAL VIBS = 0.5 STICK SLIP = 50-100% WT IN 8.5 PPG. WT OUT 8.5 PPG
Total Time		24.00					

Safety Incident? N **Days since Last RI:**

Environ Incident? N **Days since Last LTA:**

Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
LIGHT SNOW FALL 16 DEGREES

Other Remarks: RIG FUEL ON HAND 9328 GALS. 2968 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 12

BOP DRILL DAY CREW
FUNCTION HYDRIL & HCR

24 HOUR MUD LOSS = 24
TOTAL INTREVAL LOSS = 24

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/01/2009

Report No: 94

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	64.66
Today's MD:	11,000.0 ft	**Progress:**	343.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	10,657.0 ft	**Rot Hrs Today:**	23.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	14.6 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: NAVAJO@9,520.0 **Lithology:** SANDSTONE

Current Ops: DRILLING 8 1/2" PRODUCTION HOLE AT 11,000'

24-Hr Summary: DRILING 8 1/2" PRODUCTION HOLE FROM 10,657' TO 11,000'

24-Hr Forecast: DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	396.0/ 285.0 kip	**Pump Rate:**	519.1	**Conn:**	0	0
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**	328.0 kip	**Pump Press:**	2,650.0	**Trip:**	0	0
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**	13,500.0 ft-lbf			**Backgr:**	0	0
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**	15,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	25
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
10,933.0	0.13	75.15	10,777.61	1,082.4	178.0	1,061.4	0.12	0.07
10,838.0	0.06	15.36	10,682.61	1,082.3	177.8	1,061.3	0.05	0.00
10,743.0	0.06	331.54	10,587.61	1,082.2	177.9	1,061.3	0.05	-0.03
10,647.0	0.09	357.56	10,491.61	1,082.1	177.9	1,061.1	0.09	0.03
10,550.0	0.06	294.26	10,394.61	1,082.0	177.9	1,061.0	0.11	0.00
10,455.0	0.06	166.17	10,299.61	1,082.1	178.0	1,061.1	0.44	-0.33

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
13	23.50	43.50	343.0	766.0	14.6	17.6	14.0/17.0	9/30	0.552	694.2	300.4	3.7

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	**MBT:**	20.0 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:59 / 10,984.0	**Pf / Mf:**	0.8 / 1.9
Density @ Temp:	8.60 / 120	**Chlorides:**	300
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	57.00	**CaCl2:**	
PV / YP:	16 / 16	**Clom:**	
Gels 10s/10m/30m:	8 / 16 / 26	**Lime:**	
API WL:	7.60	**ES:**	
HTHP WL:	15.00	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	2.00 / 2.00	**Carbonate:**	
Oil / Water:	/ 98.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	23.0 / 10,130.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	2.00 / 18.14		

VG Meter: 5@3 / 6@6 / 16@100 / 25@200 / 32@300 / 48@600

Comments: DRILLED FROM 10654 - 11000 WITH NO HOLE PROBLEMS. CONDITIONING MUD AS NEEDING TO MEET SPECIFICATIONS.

LAST OR CURRENT BHA

BHA No: 16 Bit No: 13 MD In: 10,234.0 ft

Purpose: MAINTAIN VERTICAL HOLE MD Out: 11,859.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.437	2.437	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.13
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.93 ft **Wt below Jars:** 47,506.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	8.00
DRILLTHIN	25 LB/SX	4.00
DYNAFIBER M	25 LB/SX	35.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	2.00
FLOW-ZAN	25 LB SX	3.00
MICA FINE	50 LB/SX	11.00
NEW CARB C	50 LB/SX	2.00
NEW CARB M	50 LB/SX	28.00
NEW GEL HY	50 LBS/SK	104.00
NEW PHPA DSL	50 LBS/SK	6.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | **BURRVILLE FEDERAL 3-1** | **Date:** 04/01/2009

Prim. Reason: ORIG DRILL DIR | **USA** | **Report No:** 94

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,657' TO 10,795', 367' AT 23 FPH. DRILLING WITH RSS. WOB 12-16K; RPM: 15-30; TQ ON BTTM = 12K OFF BTTM = 11 K, 500 GPM = 2270 PSI UP WT= 392K; DN WT= 280K; RT WT= 317K FLOW 4 % LATERAL VIBS = 0.5 STICK SLIP = 50-100% WT IN 8.5 PPG. WT OUT 8.5 PPG
6:00	15:00	9.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,795' TO 10,905', 110" AT 12.2 FPH. DRILLING WITH RSS. WOB 12-16K; RPM: 15-30; TQ ON BTTM = 14K OFF BTTM = 11 K, 517 GPM = 2497 PSI UP WT= 392K; DN WT= 280K; RT WT= 317K FLOW 4 % LATERAL VIBS = 0.5 STICK SLIP = 50-100% WT IN 8.6 PPG. WT OUT 8.6 PPG.
15:00	15:30	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG.
15:30	0:00	8.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 10,905' TO 11,000', 95' AT 11.2 FPH. DRILLING WITH RSS. WOB 14-17K; RPM: 10-18; TQ ON BTTM = 15K OFF BTTM = 13 K, 517 GPM = 2645 PSI UP WT= 396K; DN WT= 285K; RT WT= 328K FLOW 15 % LATERAL VIBS = 0.5 - 0.8 STICK SLIP = 50-100% WT IN 8.6 PPG. WT OUT 8.6 PPG. DOWN HOLE TEMP AT 10,925' 164 DEG. 23 BBLS LOST TO THE WELL BORE.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	175.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	175.00	COOL BREEZE 24 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 14,416 GALS. 2,968 USED 8,002GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 9

BOP DRILL NIGHT CREW

24 HOUR MUD LOSS = 23
TOTAL INTREVAL LOSS = 47

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/02/2009

Report No: 95

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	65.66
Today's MD:	11,340.0 ft	Progress:	340.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	11,000.0 ft	Rot Hrs Today:	22.50 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	15.1 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation: NAVAJO@9,520.0 Lithology: SANDSTONE

Current Ops: DRILLING 8 1/2" PRODUCTION HOLE AT 11,340'

24-Hr Summary: DRILING 8 1/2" PRODUCTION HOLE FROM 11,000" TO 11,340', SERVICED RIG, 1/2 HOUR RIG REPAIR ON TOP DRIVE

24-Hr Forecast: DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	345.0/ 292.0 kip
Str Wt Rot:	331.0 kip
Torq Off Btm:	14,000.0 ft-lbf
Torq On Btm:	15,000.0 ft-lbf

HYDRAULICS

Pump Rate:	519.1
Pump Press:	2,820.0

MUD GAS

	Avg	Max
Conn:	0	0
Trip:	0	0
Backgr:	0	0

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
11,308.0	0.06	64.86	11,152.61	1,083.1	179.5	1,061.9	0.05	0.02
11,215.0	0.04	111.77	11,059.61	1,083.1	179.4	1,061.9	0.21	-0.17
11,121.0	0.20	25.85	10,965.61	1,082.9	179.3	1,061.8	0.67	-0.59
11,027.0	0.75	73.51	10,871.61	1,082.6	178.7	1,061.6	0.66	0.66
10,933.0	0.13	75.15	10,777.61	1,082.4	178.0	1,061.4	0.12	0.07
10,838.0	0.06	15.36	10,682.61	1,082.3	177.8	1,061.3	0.05	0.00

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
13	22.50	66.00	340.0	1,106.0	15.1	16.8	12.0/18.0	9/24	0.552	696.9	300.9	3.7

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.5
Mud Type:	LOW SOLIDS / NON-DISPER	Pm / Pom:	
Time / MD:	23:59 / 11,339.0	Pf / Mf:	0.9 / 1.9
Density @ Temp:	8.65 / 125	Chlorides:	300
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	57.00	CaCl2:	
PV / YP:	17 / 18	Clom:	
Gels 10s/10m/30m:	8 / 19 / 26	Lime:	
API WL:	7.60	ES:	
HTHP WL:	15.00	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	2.40 / 2.40	Carbonate:	
Oil / Water:	/ 97.6	Bicarbonate:	
Sand:	0.05	Form Loss:	14.0 / 10,144.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.40 / 21.77		

VG Meter: 5@3 / 6@6 / 17@100 / 26@200 / 35@300 / 52@600

Comments: DRILLED FROM 10984 - 11339 WHILE HAVING NO PROBLEMS.

DAILY LOSSES - 14

LAST OR CURRENT BHA

BHA No: 16 Bit No: 13 MD In: 10,234.0 ft

Purpose: MAINTAIN VERTICAL HOLE MD Out: 11,859.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.437	2.437	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.13
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.93 ft Wt below Jars: 47,506.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL HY	50 LBS/SK	36.00
NEW PHPA DSL	50 LBS/SK	16.00
NEWPAC R	50 LB/SX	10.00
TAX	EACH	1.00

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APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | **Prim. Reason:** ORIG DRILL DIR | BURRVILLE FEDERAL 3-1 | USA | **Date:** 04/02/2009 | **Report No:** 95

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG
0:30	6:00	5.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,000' TO 11,079', 79' AT 14.4 FPH. DRILLING WITH RSS. WOB 14-17K; RPM: 10-18; TQ ON BTTM = 15K OFF BTTM = 13 K, 517 GPM = 2645 PSI UP WT= 396K; DN WT= 285K; RT WT= 328K FLOW 15 % LATERAL VIBS = 0.5 STICK SLIP = 50-100% WT IN 8.6 PPG. WT OUT 8.6 PPG. ART = 5.5 HR.
6:00	7:00	1.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,079' TO 11,093', 14' AT 18.7 FPH. DRILLING WITH RSS. WOB 14-17K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18 K, 520 GPM = 2700 PSI UP WT= 390K; DN WT= 285K; RT WT= 328K FLOW 15 % LATERAL VIBS = 0.5 STICK SLIP = 50-100% WT IN 8.6 PPG. WT OUT 8.6 PPG. ART = 0.75 HR
7:00	7:30	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG.
7:30	18:00	10.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,093' TO 11,253', 160' AT 16 FPH. DRILLING WITH RSS. WOB 14-17K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18 K, 520 GPM = 2700 PSI UP WT= 390K; DN WT= 285K; RT WT= 328K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 40% WT IN 8.6 PPG. WT OUT 8.6 PPG. DOWN HOLE TEMP @ 11,253' 176.0 DEG. ART = 10 HR
18:00	19:30	1.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,253' TO 11,283', 30' AT 20 FPH. DRILLING WITH RSS. WOB 14-17K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18 K, 520 GPM = 2700 PSI UP WT= 390K; DN WT= 285K; RT WT= 328K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 40% WT IN 8.6 PPG. WT OUT 8.6 PPG. ART = 1.5 HR
19:30	20:00	0.50	31PRDR	RIGMT	REP	PT	REPAIR RIG, TOP DRIVE 7 7/8" TORQUE CLAMP FAILED ON CONNECTION

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/02/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 95

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
20:00	0:00	4.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,283' TO 11,340', 57' AT 15.2 FPH. DRILLING WITH RSS. WOB 14-18K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18 K, 520 GPM = 2820 PSI UP WT= 395K; DN WT= 295K; RT WT= 330K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.6 PPG. WT OUT 8.6 PPG. ART = 3.75 HR 24 HR ADT = 22.5 HRS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	176.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	176.00	CALM 33 DEGREES

Incident Comments:
No incidents reported last 24 hours. 4 Safe work premits issued.

Other Remarks: RIG FUEL ON HAND 8,480 GALS. 3,180 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 11

24 HOUR MUD LOSS = 74
TOTAL INTREVAL LOSS = 183

T 25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/03/2009

Report No: 96

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	66.66
Today's MD:	11,660.0 ft	Progress:	320.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	11,340.0 ft	Rot Hrs Today:	22.75 hr	AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	14.1 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation:	CHINLE@11,428.0
Lithology:	SILTY SHALE
Current Ops:	DRILLING 8 1/2" PRODUCTION HOLE AT 11,660'
24-Hr Summary:	DRILING 8 1/2" PRODUCTION HOLE FROM 11,340" TO 11,660', SERVICED RIG
24-Hr Forecast:	DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	420.0/ 280.0 kip	Pump Rate:	523.3	Conn:	0	0
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	335.0 kip	Pump Press:	3,020.0	Trip:	0	0
Last BOP Press Test:	03/29/2009	Torq Off Btm:	18,500.0 ft-lbf			Backgr:	0	0
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:	17,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
11,690.0	0.84	47.58	11,534.60	1,083.6	179.7	1,062.4	1.01	0.74
11,595.0	0.14	259.72	11,439.61	1,083.1	179.3	1,062.0	0.09	0.08
11,500.0	0.06	242.11	11,344.61	1,083.1	179.5	1,062.0	0.09	0.02
11,404.0	0.04	357.72	11,248.61	1,083.1	179.5	1,062.0	0.06	-0.02
11,308.0	0.06	64.86	11,152.61	1,083.1	179.5	1,061.9	0.05	0.02
11,215.0	0.04	111.77	11,059.61	1,083.1	179.4	1,061.9	0.21	-0.17

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
13	22.75	88.75	320.0	1,426.0	14.1	16.1	14.0/28.0	9/23	0.552	702.3	302.1	3.8

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.6
Mud Type:	LOW SOLIDS / NON-DISPER	Pm / Pom:	
Time / MD:	23:59 / 11,652.0	Pf / Mf:	0.8 / 1.9
Density @ Temp:	8.70 / 129	Chlorides:	300
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	62.00	CaCl2:	
PV / YP:	18 / 20	Clom:	
Gels 10s/10m/30m:	8 / 17 / 28	Lime:	
API WL:	7.90	ES:	
HTHP WL:	15.50	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	2.70 / 2.70	Carbonate:	
Oil / Water:	/ 97.3	Bicarbonate:	
Sand:	0.05	Form Loss:	13.0 / 10,157.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	2.70 / 24.49		

VG Meter: 5@3 / 6@6 / 18@100 / 28@200 / 38@300 / 56@600

Comments: DRILLED FROM 11339 - 11652 WHILE ENCOUNTERING NO PROBLEMS.

DAILY LOSSES - 13

LAST OR CURRENT BHA

BHA No: 16 Bit No: 13 MD In: 10,234.0 ft

Purpose: MAINTAIN VERTICAL HOLE MD Out: 11,859.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.437	2.437	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.13
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.93 ft Wt below Jars: 47,506.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
DRILLTHIN	25 LB/SX	4.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW GEL HY	50 LBS/SK	64.00
NEWPAC R	50 LB/SX	6.00
TAX	EACH	1.00

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APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/03/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 96

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,340' TO 11,418', 78' AT 13.6 FPH. DRILLING WITH POWER V. WOB 14-18K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18K, 520 GPM = 2820 PSI UP WT= 395K; DN WT= 295K; RT WT= 330K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.6 PPG. WT OUT 8.6 PPG. ART = 5.75 HR
6:00	12:30	6.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,418' TO 11,472', 54' AT 8.9 FPH. DRILLING WITH POWER V. WOB 14-18K; RPM: 12-18; TQ ON BTTM = 15K OFF BTTM = 18K, 520 GPM = 2820 PSI UP WT= 395K; DN WT= 295K; RT WT= 330K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 6.5 HR CHINLE FORMATION TOP @ 11,428'.
12:30	13:00	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG
13:00	18:00	5.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,472' TO 11,536', 64' AT 12.8 FPH. DRILLING WITH POWER V. WOB 28K; RPM: 12; TQ ON BTTM = 15K OFF BTTM = 18 K/ 19K, 520 GPM = 2820 PSI UP WT= 400K; DN WT= 295K; RT WT= 330K FLOW 15 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP @ 11,536' 183.1 DEG. ART = 5.00 HR
18:00	0:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,536' TO 11,660', 124' AT 22.5 FPH. DRILLING WITH POWER V. WOB 19-28K; RPM: 12-23; TQ ON BTTM = 17K OFF BTTM = 18 K/ 19K, 520 GPM = 3020 PSI UP WT= 420K; DN WT= 280K; RT WT= 335K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.7 PPG. WT OUT 8.7 PPG. DOWN HOLE TEMP @ 11,536' 183.1 DEG. ART = 5.50 HR 24 HR ADT = 22.75 HRS
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	177.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	177.00	6 INCHES NEW SNOW & BLIZZARD CONDITONS
Incident Comments:				27 DEGREES
No incidents reported last 24 hours.				

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/03/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	96

Other Remarks: RIG FUEL ON HAND 11,660 GALS. 2,756 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 07

24 HOUR MUD LOSS = 13
TOTAL INTREVAL LOSS = 74

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/04/2009

Report No: 97

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	67.66
Today's MD:	11,859.0 ft	**Progress:**	199.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	11,660.0 ft	**Rot Hrs Today:**	7.20 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	27.6 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: CHINLE@11,428.0 **Lithology:** SILTY SHALE

Current Ops: TRIPPING IN HOLE AT 7,287'

24-Hr Summary: DRILL F/ 11,660' T/ 11,859', C&C, POOH F/ FAILED POWER DRIVE, C.O. BHA, TIH, SHALLOW TEST

24-Hr Forecast: TIH F/ 7,287', PRECAUTIONARY REAM 99' TO BTTM, DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	440.0/ 280.0 kip	Pump Rate:	519.1	Conn:	0	0
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	340.0 kip	Pump Press:	3,100.0	Trip:	0	0
Last BOP Press Test:	03/29/2009	Torq Off Btm:	20.0 ft-lbf			Backgr:	0	0
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:	18.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
11,786.0	1.55	47.18	11,630.58	1,084.9	181.2	1,063.6	0.74	0.74
11,690.0	0.84	47.58	11,534.60	1,083.6	179.7	1,062.4	1.01	0.74
11,595.0	0.14	259.72	11,439.61	1,083.1	179.3	1,062.0	0.09	0.08
11,500.0	0.06	242.11	11,344.61	1,083.1	179.5	1,062.0	0.09	0.02
11,404.0	0.04	357.72	11,248.61	1,083.1	179.5	1,062.0	0.06	-0.02
11,308.0	0.06	64.86	11,152.61	1,083.1	179.5	1,061.9	0.05	0.02

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
14	8.500	SECURITY DBS	FMH3655ZZ	11160416	M423	6x11	11,859.0	12,241.0	1-3-LT-H	D-I-CT-DMF
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
13	0.70	89.45	6.0	1,432.0	8.6	16.0	20.0/28.0	20/25	0.552	735.3	305.6	4.0

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:59 / 11,859.0	**Pf / Mf:**	0.7 / 1.9
Density @ Temp:	8.75 / 92	**Chlorides:**	400
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	57.00	**CaCl2:**	
PV / YP:	15 / 19	**Clom:**	
Gels 10s/10m/30m:	8 / 15 / 23	**Lime:**	
API WL:	7.20	**ES:**	
HTHP WL:	15.60	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	3.10 / 3.10	**Carbonate:**	
Oil / Water:	/ 96.9	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	5.0 / 10,162.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.10 / 28.12		

VG Meter: 6@3 / 5@6 / 17@100 / 26@200 / 34@300 / 49@600

Comments: DRILLED FROM 11652 - 11859 WITH NO RPOBLEMS.
DESICION WAS MADE TO TOOH AND REPLACE POWER DRIVE.
PUMPED SWEEP AROUND AND TOOH WITH NO PROBLEMS.

LAST OR CURRENT BHA

BHA No: 17 Bit No: 14 MD In: 11,859.0 ft

Purpose: HOLD VERTICAL MD Out: 12,241.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.08
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.88 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	4.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	48.00
NEWEDGE	50 LB/SX	10.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/04/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 97

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,660' TO 11,853' , 195' AT 35.5 FPH. DRILLING WITH POWER V. WOB 20-26K; RPM: 12-23; TQ ON BTTM = 14-17K OFF BTTM = 18 K/ 19K, 520 GPM = 3020 PSI UP WT= 420K; DN WT= 280K; RT WT= 335K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.7 PPG. WT OUT 8.7 PPG. DOWN HOLE TEMP @ 11,828' 185 DEG. PUMP HIGH VIS LCM SWEEP @ 11,660' ART = 5.50 HR
6:00	6:45	0.75	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,853' TO 11,859' , 6' AT 8 FPH. DRILLING WITH POWER V. SURVEY DEPTH @ 11,786' INC 1.55 DEG, AZM 47.18 DEG SUSPECT POWER V FAILURE. WOB 20-26K; RPM: 12-23; TQ ON BTTM = 14-17K OFF BTTM = 18 K/ 20K, 520 GPM = 3020 PSI UP WT= 420K; DN WT= 280K; RT WT= 335K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.7 PPG. WT OUT 8.7 PPG. PUMP HIGH VIS LCM SWEEP @ 11,853' ART = .70 HR
6:45	8:15	1.50	31PRDR	CIRC	CNDHOL	P	CIRCULATE SWEEP AROUND WHILE MIXING DRY JOB. PUMP DRY JOB.
8:15	9:45	1.50	31PRDR	TRIP	DRILL	P	PULL OUT OF THE HOLE FROM 11,859' TO 10,161'. FOR FAILED POWER DRIVE.
9:45	10:30	0.75	31PRDR	SRFEQ	RIGUP	P	REMOVE ROTATING RUBBER, MONITOR WELL BORE. STATIC. BLOW DOWN TOP DRIVE.
10:30	15:00	4.50	31PRDR	TRIP	DRILL	P	PULL OUT OF THE HOLE FROM 10,161' TO 829'.
15:00	16:30	1.50	31PRDR	TRIP	BHA	P	HANDLE BHA
16:30	18:00	1.50	31PRDR	TRIP	BHA	P	BREAK BIT, LAY DOWN MUD MOTOR AND POWER V. STABILIZER ON MUD MOTOR 3/4" OUT OF GAUGE.
18:00	19:30	1.50	31PRDR	TRIP	BHA	P	MU BHA # 17, BIT # 14, NEW POWER DRIVE & MUD MOTOR
19:30	0:00	4.50	31PRDR	TRIP	DRILL	P	TIH TO 2,939', SHALLOW TEST, TIH TO 7,287'
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	178.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	178.00	8 INCHES NEW SNOW ACCUMULATION 22 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 6,360 GALS. 2120 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 08
FUNCTIONED BLIND RAMS

24 HOUR MUD LOSS = 13
TOTAL INTREVAL LOSS = 74

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/05/2009

Report No: 98

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	68.66
Today's MD:	12,230.0 ft	**Progress:**	371.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	11,859.0 ft	**Rot Hrs Today:**	16.75 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	22.1 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: MOENKOPI@11,938.0 **Lithology:** SHALE

Current Ops: DRILLING 8 1/2" PRODUCTION HOLE AT 12,230'

24-Hr Summary: TIH F/ 7,287' T/11,755', W&R F/ 11,755' TO 11,859', DRILLING F/ 11,859' TO 12,230', 3/4 HR RIG REPAIR

24-Hr Forecast: DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	405.0/ 302.0 kip
Str Wt Rot:	336.0 kip
Torq Off Btm:	19,000.0 ft-lbf
Torq On Btm:	18,000.0 ft-lbf

HYDRAULICS

Pump Rate:	527.4
Pump Press:	3,280.0

MUD GAS

	Avg	Max
Conn:	0	0
Trip:	0	0
Backgr:	0	0

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	26
Total on Site:	28

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
12,167.0	1.89	105.87	12,011.51	1,084.5	187.5	1,062.6	1.21	1.17
12,071.0	0.77	119.97	11,915.54	1,085.3	186.4	1,063.6	0.17	0.16
11,975.0	0.62	125.10	11,819.55	1,085.9	184.4	1,064.3	0.91	-0.55
11,880.0	1.14	76.88	11,724.56	1,086.0	183.0	1,064.5	0.85	-0.44
11,786.0	1.55	47.18	11,630.58	1,084.9	181.2	1,063.6	0.74	0.74
11,690.0	0.84	47.58	11,534.60	1,083.6	179.7	1,062.4	1.01	0.74

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
14	8.500	SECURITY DBS	FMH3655ZZ	11160416	M423	6x11	11,859.0	12,241.0	1-3-LT-H	D-I-CT-DMF
13	8.500	HUGHES	HC505ZX	7121454	M323	5x12	10,234.0	11,859.0	2-1-FC-N	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
14	16.75	16.75	371.0	371.0	22.1	22.1	4.0/22.0	12/35	0.557	702.8	299.6	3.8

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES \ BRET GOAD	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.2
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:59 / 12,230.0	**Pf / Mf:**	0.7 / 1.8
Density @ Temp:	8.80 / 120	**Chlorides:**	300
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	58.00	**CaCl2:**	
PV / YP:	17 / 20	**Clom:**	
Gels 10s/10m/30m:	5 / 16 / 23	**Lime:**	
API WL:	7.90	**ES:**	
HTHP WL:	15.80	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	3.50 / 3.50	**Carbonate:**	
Oil / Water:	1.0 / 96.5	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	11.0 / 10,173.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.50 / 31.75		

VG Meter: 4@3 / 5@6 / 16@100 / 25@200 / 37@300 / 54@600

Comments: TINISHED TIH. REAMED TIGHT HOLE FROM 11755 TO 11859. BEGAN DRILLING OPERATIONS. INCREASING CONCENTRATION OF LT PHALT FOR SHALE STABILITY.

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	6.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
HME	5 GAL/CAN	1.00
LT PHALT	50 LB/SX	100.00
NEW BAR	100 LB/SX	16.00
NEW CARB M	50 LB/SX	8.00
NEW GEL HY	50 LBS/SK	80.00
NEW PHPA DSL	50 LBS/SK	8.00
NEWPAC R	50 LB/SX	20.00
TAX	EACH	1.00

LAST OR CURRENT BHA

BHA No: 17 **Bit No:** 14 **MD In:** 11,859.0 ft

Purpose: HOLD VERTICAL **MD Out:** 12,241.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.48
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	30.08
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	31.57
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 829.88 ft **Wt below Jars:** 47,923.0 kip

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/05/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 98

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	2.00	31PRDR	TRIP	DRILL	P	CONTINUE TO TIH F/ 7,287' TO 10,200', INSTALL ROTATING RUBBER
3:00	4:00	1.00	31PRDR	TRIP	DRILL	P	TIH TO 11,755'
4:00	4:30	0.50	31PRDR	REAM	RMTGT	P	REAM TIGHT HOLE FROM 11,755' TO 11,859' STAGED UP CIRC TO 510 GPM @ 3000 PSI 35 RPM AT 19-23k TORQUE
4:30	6:00	1.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,859' TO 11,885', 26' AT 17.3 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 12-23; TQ ON BTTM = 14-17K OFF BTTM = 18 K/ 23K, 520 GPM = 3120 PSI UP WT= 440K; DN WT= 280K; RT WT= 335K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.7 PPG. WT OUT 8.7 PPG. PUMP HIGH VIS LCM SWEEP @ 11,865' HOLE UNLOADING DIME SIZED SHALE ON INTIAL BOTTOMS UP ART = 1.5 HR
6:00	7:45	1.75	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,885' TO 11,947', 62' AT 35.4 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 25; TQ ON BTTM = 9K OFF BTTM = 11K, 520 GPM = 3120 PSI UP WT= 440K; DN WT= 280K; RT WT= 335K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 100% WT IN 8.7 PPG. WT OUT 8.7 PPG. PUMP HIGH VIS LCM SWEEP @ 11,890' ART = 1.75 HR
7:45	8:30	0.75	31PRDR	RIGMT	REP	PT	SHUT IN #1 PUMP TO REPAIR POP OFF. CHANGE OUT TRANSDUCER ON STAND PIPE FOR SCHLUMBERGER MWD.
8:30	18:00	9.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 11,947' TO 12,139', 192' AT 22.5 FPH. DRILLING WITH POWER V. . WOB 18/20K; RPM: 25; TQ ON BTTM = 18K OFF BTTM = 20K, 530 GPM = 3280 PSI UP WT= 430K; DN WT= 310K; RT WT= 343K FLOW 14 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. PUMPING HIGH VIS LCM SWEEPS AS NEEDED. ART = 8.50 HR MOENKOPI FORMATION TOP @ 11,938'. DOWN HOLE TEMP 185.9 DEG @ 12,139'.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/05/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 98

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
18:00	0:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,139' TO 12,230' , 91' AT 18.2 FPH. DRILLING WITH POWER V. . WOB 18/20K; RPM: 23; TQ ON BTTM = 19K OFF BTTM = 20K, 515 GPM = 3280 PSI UP WT= 405K; DN WT= 302K; RT WT= 345K FLOW 14 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. PUMPING HIGH VIS LCM SWEEPS AS NEEDED. ART = 5.0 HR 24 HR ADT = 16.75
Total Time		23.00					

Safety Incident?	N	**Days since Last RI:**	179.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	179.00	CLEAR 28 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

OPEN WELLS NOT TRACKING ACCUMULATED TIME PROPERLY EVEN AFTER REBOOTING SYSTEM SEVERAL TIMES.
ADDED 24 HOURS TO TIME SUMMARY, ONLY TOTALS 23 HOURS IN TOTAL TIME

RIG FUEL ON HAND 10,812 GALS. 3604 USED 8000 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 08

24 HOUR MUD LOSS = 5
TOTAL INTERVAL LOSS = 79

4" ISOLATION PADDLE AND SEATS CHANGED OUT ON #1, #3 PUMPS AND STAND PIPE.
HYDRAULIC PUMP CHANGED OUT ON SD-80

T25S R16W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/06/2009

Report No: 99

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	69.66
Today's MD:	12,286.0 ft	**Progress:**	56.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	12,230.0 ft	**Rot Hrs Today:**	3.25 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	17.2 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: MOENKOPI@11,938.0 **Lithology:** SHALE

Current Ops: DRILLING 8 1/2" PRODUCTION HOLE AT 12,286'.

24-Hr Summary: SERV RIG, DRILL F/ 12,230' TO 12,241', CBU, POOH FOR BHA, LD BHA, PU BHA # 18, TIH, W&R TO BTTM, DRILL TO 12,286'

24-Hr Forecast: DRILLING 8 1/2" PRODUCTION HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	405.0/ 302.0 kip	Pump Rate:	535.8	Conn:	0	0
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	336.0 kip	Pump Press:	3,450.0	Trip:	0	0
Last BOP Press Test:	03/29/2009	Torq Off Btm:	19,000.0 ft-lbf			Backgr:	0	0
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:	20,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	27
Total on Site:	29

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
12,262.0	2.44	94.42	12,106.44	1,083.9	191.0	1,061.7	0.73	0.58
12,167.0	1.89	105.87	12,011.51	1,084.5	187.5	1,062.6	1.21	1.17
12,071.0	0.77	119.97	11,915.54	1,085.3	185.4	1,063.6	0.17	0.16
11,975.0	0.62	125.10	11,819.55	1,085.9	184.4	1,064.3	0.91	-0.55
11,880.0	1.14	76.88	11,724.56	1,086.0	183.0	1,064.5	0.85	-0.44
11,786.0	1.55	47.18	11,630.58	1,084.9	181.2	1,063.6	0.74	0.74

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x11	12,241.0	12,831.0	1-1-NO-A	D-I-NO-BHA
14	8.500	SECURITY DBS	FMH3655ZZ	11160416	M423	6x11	11,859.0	12,241.0	1-3-LT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15	2.00	2.00	45.0	45.0	22.5	22.5	4.0/15.0	20/23	0.557	720.4	302.5	3.9
14	1.25	18.00	11.0	382.0	8.8	21.2	18.0/20.0	20/25	0.557	693.3	296.7	3.7

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.3
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:59 / 12,275.0	**Pf / Mf:**	0.8 / 1.9
Density @ Temp:	8.80 / 110	**Chlorides:**	300
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	54.00	**CaCl2:**	
PV / YP:	17 / 19	**Clom:**	
Gels 10s/10m/30m:	5 / 17 / 25	**Lime:**	
API WL:	7.40	**ES:**	
HTHP WL:	16.10	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	2.50 / 3.50	**Carbonate:**	
Oil / Water:	1.0 / 96.5	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	3.0 / 10,176.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.50 / 31.75		

VG Meter: 4@3 / 5@6 / 16@100 / 25@200 / 36@300 / 53@600

Comments: DRILLED FROM 12230 - 12241 WITH NO HOLE PROBLEMS. DESICION WAS MADE TO TOOH TO REPLACE FAILED POWER DRIVE. PUMPED SWEEP AROUN AND DRY JOB. TIH AND

LAST OR CURRENT BHA

BHA No: 18 Bit No: 15 MD In: 12,241.0 ft

Purpose: HOLD VERTICAL MD Out: 12,831.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.49
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.76
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 828.68 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	6.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
HME	5 GAL/CAN	3.00
NEW PHPA DSL	50 LBS/SK	6.00
NEWPAC R	50 LB/SX	4.00
NEWPHALT	50 LB/SX	6.00
TAX	EACH	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/06/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 99

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG
0:30	2:00	1.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,230' TO 12,241', 8.8" AT 11 FPH. DRILLING WITH POWER V. . SURVEY DEPTH @ 12,167' INC 1.89 DEG, AZM 105.87 DEG SUSPECT POWER V FAILURE. WOB 18/20K; RPM: 23; TQ ON BTTM = 19K OFF BTTM = 20K, 515 GPM = 3280 PSI UP WT= 405K; DN WT= 302K; RT WT= 336K FLOW 14 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 1.25 HR
2:00	3:30	1.50	31PRDR	CIRC	CNDHOL	PT	CIRCULATE SWEEP AROUND WHILE MIXING DRY JOB.
3:30	4:30	1.00	31PRDR	TRIP	DRILL	PT	POOH FOR FAILED POWER DRIVE TO 11,405' W/ NO PROBLEMS
4:30	5:00	0.50	31PRDR	TRIP	DRILL	PT	PUMP DRY JOB, BLOW DOWN MUD LINES
5:00	5:30	0.50	31PRDR	TRIP	DRILL	PT	CONT. TO POOH INTO SHOE TO 10,207'
5:30	6:00	0.50	31PRDR	TRIP	DRILL	PT	REMOVE ROTATING RUBBER AND MONITOR WELL
6:00	9:45	3.75	31PRDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 10,207' TO 829'.
9:45	11:00	1.25	31PRDR	TRIP	BHA	PT	HANDLE BHA.
11:00	12:15	1.25	31PRDR	TRIP	BHA	PT	LAY DOWN MWD, MUD MOTOR, BREAK BIT AND LAY DOWN POWER V. NOTE: UNABLE TO MOVE 1 OF THE THREE PADS ON POWER V.
12:15	12:30	0.25	31PRDR	TRIP	BHA	PT	CLEAR FLOOR.
12:30	13:00	0.50	31PRDR	SAFE	PJSM	PT	PRE JOB SAFETY MEETING.
13:00	15:30	2.50	31PRDR	TRIP	BHA	PT	PICK UP AND MAKE UP BHA 18. NOTE: STABILIZER ON NEW MUD MOTOR 8-5/8" OD. REMOVE AND INSTALL 8-3/8" OD STABILIZER FROM MUD MOTOR FROM PERVIOUS RUN.
15:30	16:30	1.00	31PRDR	TRIP	BHA	PT	RUN IN THE HOLE TO 828'. SHALLOW PULSE TEST MWD.
16:30	20:00	3.50	31PRDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 828' TO 10,202', FILL DP AT 3500' & 7500'
20:00	20:30	0.50	31PRDR	TRIP	DRILL	PT	INSTALL ROTATING HEAD & FILL DP AT SHOE
20:30	21:30	1.00	31PRDR	TRIP	DRILL	PT	TRIP IN OPEN HOLE TO 12,042', NO PROBLEMS
21:30	22:00	0.50	31PRDR	REAM	PRRM	PT	PRECAUTIONARY REAM 199' TO BOTTOM, NO FILL
22:00	0:00	2.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,241' TO 12,286', 45' AT 22.5 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 23-28; TQ ON BTTM = 19-20K OFF BTTM = 18-20K, 525 GPM = 3450 PSI UP WT= 430K; DN WT= 300K; RT WT= 350K FLOW 15 % LATERAL VIBS = 0.8 STICK SLIP = 50-100% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 2.0 HR 24 HR ADT = 3.25
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	180.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	180.00	CLEAR 28 DEGREES

Incident Comments:
No incidents reported last 24 hours. 1 Safe work permit issued.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/06/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	99

Other Remarks: RIG FUEL ON HAND 8,904 GALS. 1908 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 14
FUNCTIONED BLIND & PIPE RAMS
TRIPPING BOPE DRILL NIGHT CREW

24 HOUR MUD LOSS = 3
TOTAL INTERVAL LOSS = 92

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 04/07/2009
Report No: 100

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	70.66
Today's MD:	12,831.0 ft	**Progress:**	545.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	12,286.0 ft	**Rot Hrs Today:**	12.75 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	42.7 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	MOENKOPI@11,938.0			**Lithology:**	SHALE		
Current Ops:	LAYING DOWN BHA # 18						
24-Hr Summary:	DRILL F, 12,286' TO 12,831', SERV RIG, MONITOR WELL, POOH FOR BHA, LD BHA						
24-Hr Forecast:	PU BHA # 19, CUT DRILL LINE, TIH, W&R, DRILLING 8 1/2" PRODUCTION HOLE.						

CASING/WELL CONTROL	
Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE		HYDRAULICS	
Str Wt Up/Dn:	430.0/ 302.0 kip	**Pump Rate:**	548.4
Str Wt Rot:	350.0 kip	**Pump Press:**	4,000.0
Torq Off Btm:	21.0 ft-lbf		
Torq On Btm:	20.0 ft-lbf		

MUD GAS	Avg	Max
Conn:	0	0
Trip:	0	0
Backgr:	0	0

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	26
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
12,741.0	5.45	93.40	12,584.36	1,084.0	222.3	1,058.9	1.02	0.99
12,646.0	4.51	90.56	12,489.72	1,084.3	214.0	1,059.9	0.37	0.34
12,549.0	4.18	88.57	12,393.00	1,084.2	206.7	1,060.6	0.64	0.64
12,435.0	3.45	88.36	12,279.25	1,084.0	199.1	1,061.1	1.23	1.23
12,357.0	2.49	87.38	12,201.36	1,083.9	195.1	1,061.3	0.32	0.05
12,262.0	2.44	94.42	12,106.44	1,083.9	191.0	1,061.7	0.73	0.58

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x11	12,241.0	12,831.0	1-1-NO-A	D-I-NO-BHA
14	8.500	SECURITY DBS	FMH3655ZZ	11160416	M423	6x11	11,859.0	12,241.0	1-3-LT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15	12.75	14.75	366.0	411.0	28.7	27.9	4.0/15.0	20/28	0.557	1,173.4	386.0	8.1

MUD DATA - NEWPARK-AVA

Engineer:	SCOTT JONES / BRET GOAD	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.3
Mud Type:	LOW SOLIDS / NON-DISPER	**Pm / Pom:**	
Time / MD:	23:59 / 12,831.0	**Pf / Mf:**	0.8 / 2.0
Density @ Temp:	8.80 / 120	**Chlorides:**	300
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	57.00	**CaCl2:**	
PV / YP:	19 / 19	**Clom:**	
Gels 10s/10m/30m:	6 / 16 / 26	**Lime:**	
API WL:	7.60	**ES:**	
HTHP WL:	16.80	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	3.50 / 3.50	**Carbonate:**	
Oil / Water:	1.0 / 96.5	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	28.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	3.50 / 31.75		

VG Meter: 5@3 / 7@6 / 19@100 / 28@200 / 38@300 / 57@600

Comments: DRILLED FROM 12275 - 12831 WITH NO PROBLEMS. DESICION WAS MADE TO TOOH. PUMPED SWEEP AROUND AND DRY JOB. BEGAN TOOH.

LAST OR CURRENT BHA

BHA No: 18 Bit No: 15 MD In: 12,241.0 ft
Purpose: HOLD VERTICAL MD Out: 12,831.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.750	2.312	1	13.49
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.76
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 828.68 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
DRILLTHIN	25 LB/SX	7.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	1.00
MICA FINE	50 LB/SX	4.00
NEW BAR	100 LB/SX	91.00
NEW CARB M	50 LB/SX	40.00
NEW GEL HY	50 LBS/SK	16.00
NEW PHPA DSL	50 LBS/SK	2.00
NEWEDGE	50 LB/SX	11.00
NEWPAC R	50 LB/SX	22.00
NEWPHALT	50 LB/SX	4.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/07/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 100

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,286' TO 12,465' , 179' AT 34.1 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 23; TQ ON BTTM = 19K OFF BTTM = 18K, 525 GPM = 3450 PSI UP WT= 425K; DN WT= 300K; RT WT= 350K FLOW 14 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 5.25 HR
6:00	12:30	6.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,465' TO 12,712' , 247' AT 44.9 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 23; TQ ON BTTM = 19K OFF BTTM = 18K, 570 GPM = 4,000 PSI UP WT= 430K; DN WT= 302K; RT WT= 350K FLOW 17 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 5.5 HR
12:30	13:00	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE RIG.
13:00	16:30	3.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,712' TO 12,831 , 119' AT 59.5 FPH. DRILLING WITH POWER V. . WOB 4-15K; RPM: 23; TQ ON BTTM = 20K OFF BTTM = 21K, 570 GPM = 4,000 PSI UP WT= 430K; DN WT= 302K; RT WT= 351K FLOW 17 % LATERAL VIBS = 0.1 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. ART = 2.0 HR LOST 25 BBLS TO THE WELL BORE FOR 12HR UNABLE TO MAINTAIN DESIRED VERTICAL INCLINATION WITH CURRENT POWER V BHA
16:30	17:30	1.00	31PRDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE WET FROM 12,831' TO 12,326'. NO PROBLEMS.
17:30	17:45	0.25	31PRDR	TRIP	DRILL	PT	PUMP DRY JOB.
17:45	18:30	0.75	31PRDR	TRIP	DRILL	PT	PULL OUT OF THE HOLE FROM 13,326' TO 10,204'
18:30	19:00	0.50	31PRDR	TRIP	DRILL	PT	PULL ROTATING RUBBER, MONITOR WELL, STATIC
19:00	23:30	4.50	31PRDR	TRIP	DRILL	PT	PULL OUT OF HOLE FROM 10,204' TO 119'
23:30	0:00	0.50	31PRDR	TRIP	BHA	PT	LD BHA # 18, LD MUD MOTOR, POWER V, BREAK AND GRADE BIT # 15 POWER V PADS WERE FULLY EXTENTED IN OPERATIONAL MODE, NO VISUAL INDICATIONS OF FAILURE
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	181.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	181.00	CLEAR 33 DEGREES

Incident Comments:
No incidents reported last 24 hours.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/07/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	100

Other Remarks: RIG FUEL ON HAND 14,628 GALS. 2,544 USED 8,000 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 14
BOPE DRILL WITH DAY CREW.

24 HOUR MUD LOSS = 28
TOTAL INTERVAL LOSS = 120

T25S ROW S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/08/2009

Report No: 101

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	71.66
Today's MD:	12,970.0 ft	**Progress:**	139.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	12,831.0 ft	**Rot Hrs Today:**	9.25 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	15.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: MOENKOPI@11,938.0 **Lithology:** SHALE

Current Ops: DIRECTIONAL DRILLING 8.5" PRODUCTION HOLE AT 12970'

24-Hr Summary: PICKED UP NEW BHA, TRIPPED IN HOLE, DIR. DRILLED 8.5" PROD. HOLE FROM 12831 TO 12970'

24-Hr Forecast: DIRECTIONAL DRILL 8.5" PRODUCTION HOLE TOWARDS TD OF 16000 +/-

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	450.0/ 320.0 kip	**Pump Rate:**	519.1	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**	360.0 kip	**Pump Press:**	3,375.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**	17,000.0 ft-lbf			**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**	21,000.0 ft-lbf					

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	LEONARD CLARK / SIMON BENAV
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	28
Total on Site:	29

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
12,934.0	2.08	126.09	12,776.67	1,082.8	237.9	1,056.3	4.42	-3.78
12,838.0	5.71	89.00	12,680.90	1,083.8	231.7	1,057.8	0.52	0.27
12,741.0	5.45	93.40	12,584.36	1,084.0	222.3	1,058.9	1.02	0.99
12,646.0	4.51	90.56	12,489.72	1,084.3	214.0	1,059.9	0.37	0.34
12,549.0	4.18	88.57	12,393.00	1,084.2	206.7	1,060.6	0.64	0.64
12,435.0	3.45	88.36	12,279.25	1,084.0	199.1	1,061.1	1.23	1.23

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15RR1	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x12	12,831.0	13,992.0	1-4-CT-H	D-I-CT-DMF
15	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x11	12,241.0	12,831.0	1-1-NO-A	D-I-NO-BHA

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15RR1	9.25	9.25	139.0	139.0	15.0	15.0	15.0/22.0	25/40	0.663	512.3	252.2	2.7

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.4
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	22:01 / 12,937.0	**Pf / Mf:**	0.5 / 1.0
Density @ Temp:	8.85 / 134	**Chlorides:**	300
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	57.00	**CaCl2:**	
PV / YP:	20 / 19	**Clom:**	
Gels 10s/10m/30m:	10 / 21 / 35	**Lime:**	
API WL:	7.80	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.00 /	**Carbonate:**	
Oil / Water:	1.5 / 96.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.00 / 36.28		

VG Meter: 12@3 / 13@6 / 25@100 / 32@200 / 39@300 / 59@600

Comments: Tripped in hole and washed last two stands to bottom with no problems. Drilled ahead from 12831ft to 12941 ft with somw torque. Added graphite to sweeps to reduce torque.

LAST OR CURRENT BHA

BHA No: 19 Bit No: 15RR1 MD In: 12,831.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	10.02
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.80
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 825.25 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	8.00
NEW PHPA DSL	50 LBS/SK	5.00
NEWEASE 203	5 GAL/CN	2.00
NEWPAC R	50 LB/SX	6.00
PALLETS	EA.	13.00
SAPP	50 LB/SX	2.00
SHRINK WRAP	EA.	13.00
TAX	EACH	1.00
WALNUT PLUG M	50 LB/SX	15.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/08/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 101

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	31PRDR	TRIP	BHA	PT	CONTINUE TO LD BHA # 18, LD MUD MOTOR, POWER V, BREAK AND GRADE BIT # 15, DOWNLOAD MWD POWER V PADS WERE FULLY EXTENTED IN OPERATIONAL MODE, NO VISUAL INDICATIONS OF FAILURE
1:30	2:30	1.00	31PRDR	TRIP	BHA	PT	PU BHA # 19, RR BIT # 15, NEW POWER DRIVE & MUD MOTOR JET BIT TO 0.663 WITH 6 X 12/32 NOZZELS EMPLOY 32/32 FLOW RESTRICTOR IN POWER DRIVE
2:30	3:00	0.50	31PRDR	TRIP	DRILL	PT	TIH WITH DRILL COLLARS, HWDP & 1 STAND DP
3:00	5:30	2.50	31PRDR	RIGMT	SRVRIG	P	CUT DRILLING LINE
5:30	6:00	0.50	31PRDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 938' TO 1,246'. SHALLOW PULSE TEST MWD.
6:00	10:00	4.00	31PRDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 1,246' TO 10,225'. FILLING PIPE AT 4,641', 7,474', 10,225'.
10:00	10:30	0.50	31PRDR	SRFEQ	RIGUP	PT	INSTALL ROTATING RUBBER.
10:30	11:00	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE TOP DRIVE AND CROWN SECTION.
11:00	12:15	1.25	31PRDR	TRIP	DRILL	PT	RUN IN THE HOLE FROM 10,225' TO 12,699'. NO PROBLEMS.
12:15	12:45	0.50	31PRDR	REAM	PRRM	PT	STAGE PUMPS UP SLOWLY TO 422 GPM, 2,256 PSI, WASH FROM 12,699' TO 12,795'. NO PROBLEMS.
12:45	13:45	1.00	31PRDR	CIRC	CNDHOL	PT	DOWN LINK POWER DRIVE TO 100%
13:45	14:00	0.25	31PRDR	REAM	PRRM	PT	WASH AND REAM FROM 12,795' TO 12,831' AT 520 GPM 3,160 PSI. NO FILL BOTTOM.
14:00	18:00	4.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,831' TO 12,902' , 69' AT 18.6 FPH. DRILLING WITH POWER DRIVE. . WOB 4-15K; RPM: 23; TQ ON BTTM = 21K OFF BTTM = 17K, 520 GPM = 3,350 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.5 STICK SLIP = 63% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP @ 12,900' 185.9 DEG. ART = 3.8 HR
18:00	20:15	2.25	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,902' TO12935' , 33' AT 14.6 FPH. DRILLING WITH POWER DRIVE. WOB 4-22K; RPM: 23; TQ ON BTTM = 21K OFF BTTM = 17K, 520 GPM = 3,350 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.5 STICK SLIP = 63% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP 190 ART = 2.25 HR
20:15	21:00	0.75	31PRDR	DRILL	RSS	P	TAKE SURVEY CHECK SHOT AND DOWNLINK POWER DRIVE TO 180/80%.
21:00	0:00	3.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,935' TO12970' , 35' AT 11 FPH. DRILLING WITH POWER DRIVE. WOB 4-22K; RPM: 23; TQ ON BTTM = 21K OFF BTTM = 17K, 520 GPM = 3,350 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP 190 ART = 3.0 HR
Total Time		24.00					

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/08/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	101
Safety Incident?	N	**Days since Last RI:**	182.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	182.00	CLEAR 32 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND 11660 GALS. 2968 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 15
FUNCTIONED BLIND & PIPE RAMS

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

NABORS TOOLPUSHER NOTIFIED TOP DRIVE TECH IN RIVERTON, WY. OF INTERMITANT TOP DRIVE PROBLEMS AT 03:00 HOURS

T25S R21W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/09/2009

Report No: 102

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	72.66
Today's MD:	13,351.0 ft	**Progress:**	381.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	12,970.0 ft	**Rot Hrs Today:**	22.50 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	16.9 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	MOENKOPI@11,938.0			**Lithology:**	SHALE		
Current Ops:	DIRECTIONAL DRILLING 8.5" PRODUCTION HOLE AT 13351'.						
24-Hr Summary:	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE FROM 12970' TO 13351'						
24-Hr Forecast:	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE TOWARDS TD OF 16000' +/-						

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	500.0/ 310.0 kip
Str Wt Rot:	370.0 kip
Torq Off Btm:	27,000.0 ft-lbf
Torq On Btm:	23,000.0 ft-lbf

HYDRAULICS

Pump Rate:	514.9
Pump Press:	3,335.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,222.0	1.65	101.05	13,064.64	1,081.6	241.1	1,054.7	1.47	1.47
13,122.0	0.18	111.49	12,964.65	1,081.9	239.6	1,055.2	0.17	0.07
13,030.0	0.12	52.64	12,872.65	1,081.9	239.4	1,055.2	2.13	-2.04
12,934.0	2.08	126.09	12,776.67	1,082.8	237.9	1,056.3	4.42	-3.78
12,838.0	5.71	89.00	12,680.90	1,083.8	231.7	1,057.8	0.52	0.27
12,741.0	5.45	93.40	12,584.36	1,084.0	222.3	1,058.9	1.02	0.99

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15RR1	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x12	12,831.0	13,992.0	1-4-CT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15RR1	22.50	31.75	381.0	520.0	16.9	16.4	15.0/25.0	25/40	0.663	492.3	249.3	2.6

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	**MBT:**	20.0 lbm/bbl
Sample From:	PIT	**pH:**	10.1
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	23:00 / 12,970.0	**Pf / Mf:**	0.3 / 0.8
Density @ Temp:	8.85 / 143	**Chlorides:**	400
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	65.00	**CaCl2:**	
PV / YP:	22 / 18	**Clom:**	
Gels 10s/10m/30m:	16 / 22 / 27	**Lime:**	
API WL:	8.20	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.10 /	**Carbonate:**	
Oil / Water:	2.5 / 95.9	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.19		

VG Meter: 14@3 / 15@6 / 21@100 / 29@200 / 40@300 / 62@600

Comments: Drilled ahead from 12941 ft to 13390 ft with no problems. Mica was added to suction to reduce torque with no effect.

LAST OR CURRENT BHA

BHA No: 19 Bit No: 15RR1 MD In: 12,831.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	10.02
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.80
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 825.25 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	12.00
DRILLTHIN	25 LB/SX	3.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
GRAPHITE	50 LB/SX	16.00
MICA FINE	50 LB/SX	20.00
NEW BAR	100 LB/SX	5.00
NEW GEL HY	50 LBS/SK	64.00
NEW PHPA DSL	50 LBS/SK	8.00
NEWEDGE	50 LB/SX	5.00
NEWPAC R	50 LB/SX	16.00
SAWDUST	2000 LBS/SK	20.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/09/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 102

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,970' TO 12,999' , 29' AT 11.6 FPH. DRILLING WITH POWER DRIVE. WOB 4-22K; RPM: 23; TQ ON BTTM = 21K OFF BTTM = 17K, 520 GPM = 3,350 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP 190 ART = 2.5 HR
2:30	3:00	0.50	31PRDR	RIGMT	SRVRIG	P	PERFORMED RIG SERVICE.
3:00	6:00	3.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 12,999' TO 13,030' , 31' AT 10.3 FPH. DRILLING WITH POWER DRIVE. WOB 4-22K; RPM: 23; TQ ON BTTM = 21K OFF BTTM = 17K, 520 GPM = 3,350 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.8 PPG. WT OUT 8.8 PPG. DOWN HOLE TEMP 190 ART = 3.0 HR
6:00	10:30	4.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,030' TO 13,095 , 65' AT 13.2 FPH. DRILLING WITH POWER DRIVE. WOB 25K; RPM: 30; TQ ON BTTM = 22K OFF BTTM = 24K, 505 GPM = 3,096 PSI UP WT= 450K; DN WT= 320K; RT WT= 355K FLOW 17 % LATERAL VIBS = 0.8 STICK SLIP = 50% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. ART = 4.9 HR
10:30	11:00	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE TOP DRIVE.
11:00	18:00	7.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,095 TO 13,230' , 135' AT 20.7 FPH. DRILLING WITH POWER DRIVE. WOB 25K; RPM: 30; TQ ON BTTM = 20K OFF BTTM = 22K, 505 GPM = 3,096 PSI UP WT= 480K; DN WT= 340K; RT WT= 355K FLOW 14 % LATERAL VIBS = 0 STICK SLIP = 57% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. DOWN HOLE TEMP @ 13,230' = 192.9 DEG. ART = 6.5 HR

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/09/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 102

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
18:00	20:45	2.75	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,230' TO 13294' , 64' AT 23.2 FPH. DRILLING WITH POWER DRIVE. WOB 15 / 25K; RPM: 30; TQ ON BTTM = 20K OFF BTTM = 22K, 505 GPM = 3,096 PSI UP WT= 480K; DN WT= 340K; RT WT= 355K FLOW 14 % LATERAL VIBS = 0 STICK SLIP = 57% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. DOWN HOLE TEMP @ 13,230' = 192.9 DEG. ART = 2.75 HR
20:45	21:15	0.50	31PRDR	DRILL	RSS	P	MAKE CONNECTION, TAKE SURVEY AND DOWNLINK POWERDRIVE TO 180/100%
21:15	0:00	2.75	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,294' TO 13351' , 57' AT 20.7 FPH. DRILLING WITH POWER DRIVE. WOB 15 / 25K; RPM: 30; TQ ON BTTM = 24K OFF BTTM = 24K, 505 GPM = 3,096 PSI UP WT= 480K; DN WT= 340K; RT WT= 355K FLOW 14 % LATERAL VIBS = 0 STICK SLIP = 57% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. DOWN HOLE TEMP @ 13,351' = 191 DEG. ART = 2.75 HR
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	183.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	183.00	CLEAR AT 35 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 14418 GALS. 3180 USED 5,842 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 15
FUNCTIONED BLIND & PIPE RAMS

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01WS-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/10/2009

Report No: 103

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	73.66
Today's MD:	13,871.0 ft	**Progress:**	520.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,351.0 ft	**Rot Hrs Today:**	22.25 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	23.4 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** TOP OF SINBAD- 13482'-SHALE.

Current Ops: DRILLING 8.5" PRODUCTION HOLE AT 13871'.

24-Hr Summary: DIRECTIONAL DRILL 8.5" HOLE FROM 13,351' TO 13,871'.

24-Hr Forecast: DRILL 8.5" TOWARDS TD OF 16000'. +/-

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	500.0/ 320.0 kip
Str Wt Rot:	380.0 kip
Torq Off Btm:	30,000.0 ft-lbf
Torq On Btm:	28,000.0 ft-lbf

HYDRAULICS

Pump Rate:	548.4
Pump Press:	3,750.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07
13,222.0	1.65	101.05	13,064.64	1,081.6	241.1	1,054.7	1.47	1.47

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15RR1	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x12	12,831.0	13,992.0	1-4-CT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15RR1	22.25	54.00	520.0	1,040.0	23.4	19.3	10.0/20.0	30/45	0.663	541.2	261.4	3.0

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	23:02 / 13,351.0	**Pf / Mf:**	0.5 / 1.5
Density @ Temp:	8.85 / 147	**Chlorides:**	700
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	74.00	**CaCl2:**	
PV / YP:	27 / 22	**Clom:**	
Gels 10s/10m/30m:	17 / 25 / 32	**Lime:**	
API WL:	6.80	**ES:**	
HTHP WL:	16.00	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.10 /	**Carbonate:**	
Oil / Water:	2.5 / 95.9	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.19		

VG Meter: 15@3 / 16@6 / 30@100 / 41@200 / 49@300 / 76@600

Comments: Drlled ahead from 13390 to 13870 with no problems.

LAST OR CURRENT BHA

BHA No: 19 Bit No: 15RR1 MD In: 12,831.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	10.02
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.80
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 825.25 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	9.00
DRILLTHIN	25 LB/SX	8.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LT PHALT	50 LB/SX	60.00
MICA FINE	50 LB/SX	44.00
NEW PHPA DSL	50 LBS/SK	2.00
NEWEASE 203	55 GAL/DRUM	1.00
NEWPAC R	50 LB/SX	16.00
NEWPHALT	50 LB/SX	6.00
SODA ASH	50 LBS/SK	16.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/10/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 103

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:15	4.25	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,351' TO 13447' 96' AT 22.5 FPH. DRILLING WITH POWER DRIVE. WOB 15 / 25K; RPM: 30; TQ ON BTTM = 24K OFF BTTM = 27K, 505 GPM = 3,096 PSI UP WT= 480K; DN WT= 340K; RT WT= 355K FLOW 14 % LATERAL VIBS = .3 STICK SLIP = 50% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. DOWN HOLE TEMP @ 13,230' = 192.9 DEG. ART = 3.85 HR
4:15	4:45	0.50	31PRDR	OTHR	OTHER	P	CONDUCT BOP DRILL, TAKE SURVEY CHECKSHOT.
4:45	5:30	0.75	31PRDR	DRILL	RSS	P	RECIPROCATE PIPE AND CHECK PREVIOUS SURVEY FOR ACCURACY. .50 DEGREES OFF. DOWNLINK POWER DRIVE TO 180/100%
5:30	6:00	0.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,447' TO 13452' 5' AT 10 FPH. DRILLING WITH POWER DRIVE. WOB 15 / 25K; RPM: 30; TQ ON BTTM = 24K OFF BTTM = 27K, 505 GPM = 3,096 PSI UP WT= 480K; DN WT= 340K; RT WT= 355K FLOW 14 % LATERAL VIBS = .30 STICK SLIP = 50% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. DOWN HOLE TEMP @ 13,230' = 192.9 DEG. ART = .40 HR
6:00	15:30	9.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,452' TO 13,663', 211' AT 29.7 FPH. DRILLING WITH POWER DRIVE. WOB 15 K; RPM: 20; TQ ON BTTM = 22K OFF BTTM = 27K, 530 GPM = 3,518 PSI UP WT= 490K; DN WT= 310K; RT WT= 380K FLOW 14 % LATERAL VIBS = .30 STICK SLIP = 38 T/ 80% WT IN 8.8+ PPG. WT OUT 8.8+ PPG. ART = 7.1 HR SINBAD FORMATION TOP @ 13,482'.
15:30	16:00	0.50	31PRDR	RIGMT	SRVRIG	P	SERVICE TOP DRIVE.
16:00	18:00	2.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,663' TO 13,723', 60' AT 31.5 FPH. DRILLING WITH POWER DRIVE. WOB 15 K; RPM: 30; TQ ON BTTM = 26K OFF BTTM = 29K, 534 GPM = 3,740 PSI UP WT= 490K; DN WT= 320K; RT WT= 390K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 42% WT IN 8.9 PPG. WT OUT 8.9 PPG. DOWN HOLE TEMP @ 13,711' = 201 DEG. ART = 1.9 HR

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/10/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 103

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
18:00	0:00	6.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,723' TO 13,871', 148' AT 24.6 FPH. DRILLING WITH POWER DRIVE. WOB 15 K; RPM: 30; TQ ON BTTM = 26K OFF BTTM = 29K, 534 GPM = 3,740 PSI UP WT= 500K; DN WT= 320K; RT WT= 390K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 30% WT IN 8.9 PPG. WT OUT 8.9 PPG. DOWN HOLE TEMP @ 13,871' = 191 DEG. ART = 5.5 HR
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	184.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	184.00	OVERCAST 34 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 11024 GALS. 3392 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 4
CONDUCTED 2 BOP DRILL

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 04/11/2009
Report No: 104

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	74.66
Today's MD:	13,992.0 ft	**Progress:**	121.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,871.0 ft	**Rot Hrs Today:**	5.65 hr	**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	21.4 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** SHALE

Current Ops: TRIPPING IN HOLE AT 900'.

24-Hr Summary: DIRECTIONAL DRILL 8.5" PRODUCTION HOLE FROM 13871' TO 13992'. TRIP OUT HOLE FOR POWER DRIVE FAILURE.

24-Hr Forecast: FINISH TRIPPING IN HOLE, DIR. DRILL 8.5" PRODUCTION HOLE TOWARDS TD OF 16,000' +/-

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	500.0/ 320.0 kip
Str Wt Rot:	380.0 kip
Torq Off Btm:	30.0 ft-lbf
Torq On Btm:	28.0 ft-lbf

HYDRAULICS

Pump Rate:	552.6
Pump Press:	1,829.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
15RR1	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x12	12,831.0	13,992.0	1-4-CT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
15RR1	5.65	59.65	121.0	1,161.0	21.4	19.5	15.0/20.0	20/30	0.663	568.7	267.3	3.2

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	22:54 / 13,992.0	**Pf / Mf:**	0.4 / 1.2
Density @ Temp:	8.85 / 136	**Chlorides:**	700
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	71.00	**CaCl2:**	
PV / YP:	28 / 20	**Clom:**	
Gels 10s/10m/30m:	17 / 25 / 32	**Lime:**	
API WL:	7.20	**ES:**	
HTHP WL:	16.00	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.10 /	**Carbonate:**	
Oil / Water:	2.5 / 95.9	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	/ 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.20		

VG Meter: 14@3 / 15@6 / 30@100 / 41@200 / 48@300 / 76@600

Comments: Drilled ahead from 13870 to 13992 and TOOH to change tool.

LAST OR CURRENT BHA

BHA No: 19 Bit No: 15RR1 MD In: 12,831.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	10.02
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	29.80
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.68
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 825.25 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	4.00
DRILLTHIN	25 LB/SX	4.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	63.00
NEWEDGE	50 LB/SX	8.00
NEWPAC R	50 LB/SX	2.00
TAX	EACH	1.00

RECEIVED
APR 27 2009
DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/11/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 104

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,871' TO 13,959', 88' AT 22 FPH. DRILLING WITH POWER DRIVE. WOB 15 K; RPM: 30; TQ ON BTTM = 26K OFF BTTM = 29K, 534 GPM = 3,740 PSI UP WT= 490K; DN WT= 320K; RT WT= 390K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 42% WT IN 8.9 PPG. WT OUT 8.9 PPG. DOWN HOLE TEMP @ 13,711' = 201 DEG. ART = 3.90 HR
4:00	4:30	0.50	31PRDR	RIGMT	SRVRIG	P	PERFORMED RIG SERVICE
4:30	6:00	1.50	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,959' TO 13982', 23 ' AT 15.3 FPH. DRILLING WITH POWER DRIVE. WOB 15 K; RPM: 30; TQ ON BTTM = 28K OFF BTTM = 30K, 534 GPM = 3,740 PSI UP WT= 490K; DN WT= 320K; RT WT= 390K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 42% WT IN 8.9 PPG. WT OUT 8.9 PPG. DOWN HOLE TEMP @ 13,982' = 201 DEG. ART = 1.5 HR
6:00	6:15	0.25	31PRDR	DRILL	RSS	P	DIRECTIONAL DRILL 8.5" PRODUCTION HOLE DRILL FROM 13,982' TO 13,992', 10 ' AT 15.3 FPH. DRILLING WITH POWER DRIVE. WOB 20 K; RPM: 30 / 40; TQ ON BTTM = 28K OFF BTTM = 30K, 534 GPM = 3,740 PSI UP WT= 500K; DN WT= 320K; RT WT= 380K FLOW 14 % LATERAL VIBS = 0.3 STICK SLIP = 42% WT IN 8.9 PPG. WT OUT 8.9 PPG. ART = .25 HR
6:15	7:45	1.50	31PRDR	CIRC	CNDHOL	P	PUMP AND CIRCULATE HIGH VIS SWEEP SURFACE TO SURFACE @ 510 GPM, 3,271 PSI.
7:45	8:45	1.00	31PRDR	TRIP	DRILL	P	PULL OUT OF THE HOLE DUE TO CONTINUOUS BUILD RATES OF .35-.86 PER HUNDRED FT. DRILLED . SUSPECT POWER DRIVE FAILURE. POOH FROM 13,992' TO 13,184'. NO HOLE PROBLEMS.
8:45	9:00	0.25	31PRDR	CIRC	CNDHOL	P	PUMP DRY JOB.
9:00	10:30	1.50	31PRDR	TRIP	DRILL	P	PULL OUT OF THE HOLE FROM 13,184' TO 10,187'. NO PROBLEMS.
10:30	10:45	0.25	31PRDR	SRFEQ	RIGUP	P	REMOVE ROTATING RUBBER.
10:45	11:15	0.50	31PRDR	TRIP	DRILL	P	MONITOR WELL BORE. STATIC.
11:15	19:00	7.75	31PRDR	TRIP	DRILL	P	PULL OUT OF THE HOLE FROM 10,187' TO 928'. INCREASING DRILL PIPE TORQUE FROM 28,600 TO 32,500 FOOT POUNDS.
19:00	20:30	1.50	31PRDR	TRIP	BHA	P	FINISH PULLING OUT OF HOLE WITH BHA.
20:30	22:00	1.50	31PRDR	TRIP	BHA	P	BREAK BIT AND LAY DOWN DIRECTIONAL DRILLING ASSEMBLY.
22:00	23:00	1.00	31PRDR	TRIP	BHA	P	MAKE UP 8.5" PDC BIT AND PICK UP DIRECTIONAL DRILLING ASSEMBLY.
23:00	0:00	1.00	31PRDR	TRIP	BHA	P	TRIP IN HOLE WITH BHA, INCREASE TORQUE ON HEAVY WEIGHT PIPE TO 32,500 FT LBS.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	185.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	185.00	LIGHT RAIN AT 33 DEGREES

Incident Comments:
No incidents reported last 24 hours. 2 Safe work permits issued.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/11/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	104

Other Remarks: RIG FUEL ON HAND 14628 GALS. 2396 USED 6,000 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 8

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/12/2009

Report No: 105

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	75.66
Today's MD:	13,992.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	13,992.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** SHALE

Current Ops: JARRING ON STUCK PIPE.

24-Hr Summary: TRIP IN HOLE INSTALLING NON ROTATING PROTECTORS, HOLE PACKED OFF. WORKING AND JARRING STUCK PIPE.

24-Hr Forecast: JAR STUCK PIPE UNTIL FREE, CONSULT WITH FISHING PERSONNEL AND FOLLOW DEVELOPED PLAN.

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	500.0/ 200.0 kip
Str Wt Rot:	350.0 kip
Torq Off Btm:	30,000.0 ft-lbf
Torq On Btm:	30,000.0 ft-lbf

HYDRAULICS

Pump Rate:	0.0
Pump Press:	0.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -
15RR1	8.500	HUGHES CHRISTENS	HC506ZX	7114549	M323	6x12	12,831.0	13,992.0	1-4-CT-H	D-I-CT-DMF

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	MBT:	22.5 lbm/bbl
Sample From:	PIT	pH:	10.5
Mud Type:	FRESH WATER POLYMER W	Pm / Pom:	
Time / MD:	0:01 / 13,992.0	Pf / Mf:	0.4 / 1.1
Density @ Temp:	8.90 / 140	Chlorides:	700
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	63.00	CaCl2:	
PV / YP:	19 / 18	Clom:	
Gels 10s/10m/30m:	6 / 13 / 22	Lime:	
API WL:	7.60	ES:	
HTHP WL:	16.00	ECD:	
Cake API / HTHP:	/	n / K:	/
Solids / Sol Corr:	4.50 /	Carbonate:	
Oil / Water:	2.5 / 95.5	Bicarbonate:	
Sand:	0.10	Form Loss:	/ 10,204.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.50 / 40.82		

VG Meter: 7@3 / 8@6 / 17@100 / 24@200 / 37@300 / 56@600

Comments: TIH and circulated at shoe. Continued TIH and pipe stared to stick. Currently working pipe @ 12754 ft.

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	5.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEWPAC R	50 LB/SX	4.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/12/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 105

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:15	2.25	31PRDR	TRIP	DRILL	P	TRIP IN HOLE FROM 900' TO 4300'. INCREASING TORQUE ON DRILL PIPE TO 32,500 FT. LBS.
2:15	3:00	0.75	31PRDR			P	PULL OUT OF HOLE WITH 18 STANDS OF 25 PPF DRILL PIPE. INCREASED TORQUE TO 32,500 FT. LBS.
3:00	3:30	0.50	31PRDR	TRIP	DRILL	P	FILL PIPE AND TEST MWD TOOL.
3:30	5:00	1.50	31PRDR	TRIP	DRILL	P	TRIP IN HOLE TO 7000'.
5:00	5:30	0.50	31PRDR	TRIP	DRILL	P	CONDUCTED PRE-JOB SAFETY MEETING WITH WESTERN WELL TOOL RIGGED UP TO PLACE WWT NON-ROTATING PROTECTORS.
5:30	6:00	0.50	31PRDR	TRIP	DRILL	P	TRIP IN HOLE TO 7006' INSTALLING 2 WWT NRP'S PER JOINT.
6:00	11:30	5.50	31PRDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 7,006' TO 10,225' INSTALLING WESTERN WELL TOOLS NON ROTATING RUBBERS (2 PER JOINT 6 PER STAND) (221 TOTAL INSTALLED)
11:30	11:45	0.25	31PRDR	SRFEQ	RIGUP	P	INSTALL ROTATING RUBBER.
11:45	12:15	0.50	31PRDR	TRIP	DRILL	P	FILL DRILL PIPE, 356 GPM, 1635 PSI.
12:15	13:30	1.25	31PRDR	TRIP	DRILL	P	RUN IN THE HOLE FROM 10,225' TO 12,713'. NO PROBLEMS.
13:30	13:45	0.25	31PRDR	CIRC	CNDFLD	P	MAKE UP STAND TO TOP DRIVE AND BEGIN TO FILL DRILL PIPE WHILE SLOWLY LOWERING DRILL STRING TO 12,803'. CAUGHT PRESSURE AND BEGAN TO STAGE PUMPS UP SLOWLY. PRESSURE CLIMBED TO 1,600 PSI. WITH NO PIPE MOVEMENT IN THE UP POSITION. IMMEDIATELY WORK STRING DOWN TO 310 K AND RELEASED TRAPPED PRESSURE.
13:45	17:00	3.25	31PRDR	STKP	STKDS	PT	WORKING PIPE FROM 310K TO 480K WITH INTERMENT PRESSURE ON DRILL STRING (500 PSI TO 1,200 PSI) APPLIED RIGHT HAND TORQUE INTERMITTENTLY. TOP DRIVE BRAKE FAILED. TRAPPED TORQUE IN STRING WITH TOP DRIVE IN DRILLING MODE FOR 10 MINUTES PER HOUR.
17:00	0:00	7.00	31PRDR	STKP	STKDS	PT	JARRING STUCK PIPE IN A DOWNWARD AND UPWARD MOTION. JARRED DOWN WITH 120K JARRED UPWARDS WITH 110K (460k) OVER., THEN INCREASING TO 150K OVER (500k). APPLIED INTERMITTENT TORQUE AND PRESSURE. TRAPPED TORQUE IN STRING WITH TOP DRIVE IN DRILLING MODE FOR 10 MINUTES PER HOUR. JARRED DOWN 75%, JARRED UP 25%. GAINED 1.5 FT WHILE JARRING DOWN AND 2.0 FT. WHILE JARRING UP. DISPATCHED SLAUGH FISSHING TOOLS AND WEATHERFORD BACK OFF EQUIPMENT AT 23:30.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	186.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	186.00	CLEAR AT 38 DEGREES	

Incident Comments:
No incidents reported last 24 hours. 2 Safe work issued.

Other Remarks: RIG FUEL ON HAND 12720 GALS. 1908 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/13/2009

Report No: 106

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	76.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** SHALE

Current Ops: FREE POINTING STUCK PIPE.

24-Hr Summary: JAR STUCK PIPE, FREE POINT STUCK PIPE, ATTEMPT TO BACKOFF STUCK PIPE AT FREE POINT

24-Hr Forecast: WORK ON RETRIEVING STUCK PIPE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	0.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL	
Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	26
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Scott Jones\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.5
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.5 / 1.0
Density @ Temp:	8.90 /	**Chlorides:**	700
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	63.00	**CaCl2:**	
PV / YP:	19 / 19	**Clom:**	
Gels 10s/10m/30m:	8 / 15 / 21	**Lime:**	
API WL:	7.50	**ES:**	
HTHP WL:	16.00	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.50 /	**Carbonate:**	
Oil / Water:	2.5 / 95.5	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.50 / 40.82		

VG Meter: 8@3 / 9@6 / 17@100 / 24@200 / 38@300 / 57@600

Comments: Worked Pipe and rigged up wireline tools. Running in with frepoint to seperate pipe.

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	3.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	17.00
NEWPAC R	50 LB/SX	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/13/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 106

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	31PRDR	STKP	STKDS	PT	JARRING STUCK PIPE IN A DOWNWARD AND UPWARD MOTION. JARRED DOWN WITH 120K. JARRED UPWARDS WITH 110K (460k) OVER., THEN INCREASING TO 150K OVER (500k). APPLIED INTERMITTENT TORQUE AND PRESSURE. TRAPPED TORQUE IN STRING WITH TOP DRIVE IN DRILL MODE FOR 10 MINUTES PER HOUR. JARS NOT FIRING DOWNWARD MOTION EFFICIENTLY. JARRED DOWN 25%, JARRED UP 75%. GAINED .5 FT WHILE JARRING DOWN AND 2.0 FT. WHILE JARRING UP.
6:00	8:00	2.00	31PRDR	STKP	STKDS	PT	JARRING STUCK PIPE IN A DOWNWARD AND UPWARD MOTION. JARRED DOWN WITH 120K. JARRED UPWARDS WITH 110K (460k) OVER., THEN INCREASING TO 150K OVER (500k). APPLIED INTERMITTENT TORQUE AND PRESSURE. TRAPPED TORQUE IN STRING WITH TOP DRIVE IN DRILL MODE FOR 10 MINUTES PER HOUR. JARS NOT FIRING DOWNWARD MOTION EFFICIENTLY. JARRED DOWN 25%, JARRED UP 75%. GAINED .5 FT WHILE JARRING DOWN AND 2.0 FT. WHILE JARRING UP.
8:00	8:30	0.50	31PRDR	STKP	STKDS	PT	PERFORM DERRICK INSPECTION.
8:30	9:00	0.50	31PRDR	STKP	STKDS	PT	JARRING STUCK PIPE IN A DOWNWARD AND UPWARD MOTION. JARRED DOWN WITH 120K. JARRED UPWARDS WITH 110K (460k) OVER., THEN INCREASING TO 150K OVER (500k). APPLIED INTERMITTENT TORQUE AND PRESSURE. TRAPPED TORQUE IN STRING WITH TOP DRIVE IN DRILL MODE FOR 10 MINUTES PER HOUR. JARRED DOWN 25%, JARRED UP 75%.
9:00	9:30	0.50	31PRDR	SAFE	PJSM	PT	PER JOB SAFETY MEETING WITH WEATERFORD BACK OFF PERSONAL.
9:30	12:00	2.50	31PRDR	STKP	STKDS	PT	INSTALL SIDE DOOR ENTRY SUB. SECURE SHEAVE IN DERRICK AND ON RIG FLOOR.
12:00	14:45	2.75	31PRDR	STKP	STKDS	PT	RUN IN THE HOLE WITH 1.5" OD FREE POINT AND CCL. ESTABLISH BASE LINE OF 60 POINTS = 100% FREE @ 12,037' WLM. APPLYING 11 RIGHT HANDS OF TORQUE AND WORKING STRING FROM 280K TO 400K. RELEASE RIGHT HAND TORQUE AND RUN IN THE HOLE TO 12,726' WLM (TOP OF STRING STAB) PULL UP TO 12,420' WLM APPLYING TORQUE TO DRILL STRING AND WORKING FROM 400K TO 280K FREE POINT INDICATES STUCK PIPE AT 12,420' WLM. PICK UP TO 12,374' APPLYING 11 RIGHT HANDS OF TORQUE AND WORKING STRING FROM 400K TO 280K WITH 60 POINTS ON FREE POINT 100% FREE AT 12,374'. RELEASE RIGHT HAND TORQUE GETTING 11 ROUNDS BACK.
14:45	15:30	0.75	31PRDR	STKP	STKDS	PT	PULL OUT OF THE HOLE WITH FREE POINT.
15:30	15:45	0.25	31PRDR	SAFE	PJSM	PT	PRE JOB SAFETY MEETING DISCUSSING THE DANGERS OF EXPLOSIVES.
15:45	16:15	0.50	31PRDR	STKP	STKDS	PT	MAKE UP STRING SHOT DRESSED WITH 8 STRANDS, 640 GRAINS.
16:15	17:30	1.25	31PRDR	STKP	STKDS	PT	RUN IN THE HOLE TO 12,374' WLM WORKING 5-3/4 LEFT HAND ROUNDS OF TORQUE DOWN HOLE, 400K TO 280K APPLYING 8 ROUNDS OF LEFT HAND TORQUE AND TRAPPING THE SAME. FIRE STRING SHOT, NO INDICATION AT SURFACE THAT DRILL STRING BACKED OFF.
17:30	18:30	1.00	31PRDR	STKP	STKDS	PT	PULL OUT OF THE HOLE WITH STRING SHOT. AT SURFACE WITH STRING SHOT OBSERVED THAT STRING SHOT DID FIRE DOWN HOLE.
18:30	20:00	1.50	31PRDR	STKP	STKDS	PT	WORKED PIPE WITH LEFT HAND TORQUE CHECKING FOR BACK OFF VERIFICATION. BACK OFF WAS UNSUCCESFUL
20:00	22:00	2.00	31PRDR	STKP	STKDS	PT	WORKED LEFT HANDED TORQUE INTO STRING. RUN IN HOLE WITH BACK OFF CHARGE, DRESSED WITH 10 STRAND 800 GRAINS.
22:00	23:00	1.00	31PRDR	STKP	STKDS	PT	WORKED PIPE WITH LEFT HAND TORQUE CHECKING FOR BACK OFF VERIFICATION. BACK OFF WAS UNSUCCESFUL
23:00	0:00	1.00	31PRDR	STKP	STKDS	PT	DRESS WIRELINE WITH FREE POINT TOOL. TRIP IN HOLE WITH WIRELINE FOR FREEPOINT VERIFICATION.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	187.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	187.00	CLEAR AT 40 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/13/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	106

Other Remarks: RIG FUEL ON HAND 11236 GALS. 1484 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/14/2009

Report No: 107

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	77.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** SHALE

Current Ops: BACKING OFF WITH SEVERING TOOL .1 JOINT BELOW JAR.

24-Hr Summary: ATTEMPT BACK OFF, FREE POINT, INADVERTENT BACK OFF.MAKE TOP DRIVE REPAIRS. SCREW INTO FISH. MAKE FREE POINT.

24-Hr Forecast: CIRCULATE, POOH, PICK UP CLEAN UP ASSEMBLY TRIP IN HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	0.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL

Supervisor 1:	WADE FRAME
Supervisor 2:	SIMON BENAVIDES / MIKE ROANE
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Graham Flagg\ Andrew Mlles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.4
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.6 / 1.0
Density @ Temp:	8.90 /	**Chlorides:**	700
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	65.00	**CaCl2:**	
PV / YP:	19 / 20	**Clom:**	
Gels 10s/10m/30m:	8 / 16 / 20	**Lime:**	
API WL:	7.50	**ES:**	
HTHP WL:	15.70	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.50 /	**Carbonate:**	
Oil / Water:	2.5 / 95.5	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.50 / 40.82		

VG Meter: 8@3 / 9@6 / 18@100 / 27@200 / 39@300 / 58@600

Comments: Ran freepoint and rig had mechanical problems. Running wireline with feepoint explosives to seperate pipe.

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	70.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/14/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 107

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRDR	STKP	STKDS	PT	CREATED BASELINE FOR FREE POINT. RAN WIRELINE IN HOLE TO 12,100 WLM.
1:00	2:00	1.00	31PRDR	RIGMT	REP	PT	ROTARY TABLE FAILED IN LOW GEAR. TROUBLE SHOOT ROTARY TABLE.
2:30	4:00	1.50	31PRDR	STKP	STKDS	PT	RUN FREE POINT IN HOLE , FOUND STRETCH FREE POINT AT 12180 100%. ROTARY TABLE FAILED IN LOW GEAR, UNABLE TO VERIFY TORQUE FREE POINT.
2:30	3:00	0.50	31PRDR	STKP	STKDS	PT	RIGGED DOWN SIDE ENTRY SUB.
4:00	5:00	1.00	31PRDR	STKP	STKDS	PT	SCREW INTO STRING WITH TOP DRIVE, GIVE STRING RIGHT HAND TURN TO 31,500 FT LBS WITH 18 TURNS. PLACED 12 TURNS TO THE LEFT AT 22,000 FT. LBS. RELEASED LEFT HAND TORQUE. LET STRING SIT IN SLIPS WITH TOP DRIVE SCREWED IN FOR 2 MINUTES. RELEASED LEFT HAND TORQUE. PLACED 11 TURNS TO THE LEFT WITH 22000 FT LBS. AND HELD IT WITH TONGS. BACKED OFF TOP DRIVE.
5:00	5:30	0.50	31PRDR	STKP	STKDS	PT	RUN IN HOLE WITH WIRELINE BACK OFF CHARGE DRESSED WITH 10 STRAND 800 GRAIN. WHILE RUNNING IN HOLE WITH WIRELINE, PIPE BACKED OFF INADVERTENTLY AT AN ESTIMATED 4500'. STRING ROTATED LOOSE CAUSING A HOSE RUPTURE ON TOP DRIVE.
5:30	6:00	0.50	31PRDR	STKP	STKDS	PT	PULLED OUT OF HOLE WITH WIRELINE BACK OFF CHARGE.
6:00	7:00	1.00	31PRDR	STKP	STKDS	PT	LAY DOWN BACK OFF TOOL, AND RIG DOWN LOWER WIRELINE SHEAVE.
7:00	11:00	4.00	31PRDR	STKP	STKDS	PT	REPAIRED HYDRAULIC HOSE ON TOP DRIVE. FUNCTION TEST TOP DRIVE. REPLACED BACK BRAKE ON TOP DRIVE.
11:00	12:30	1.50	31PRDR	STKP	STKDS	PT	REPLACED A BAD JOINT OF DRILL PIPE, LOWER STRING ONTO TOP OF FISH AND SCREW INTO IT. TORQUE STRING TO 32,000 FT LBS AND PULLED 420K.
12:30	13:30	1.00	31PRDR	STKP	STKDS	PT	RIGGED UP SIDE ENTRY SUB.
13:30	17:30	4.00	31PRDR	STKP	STKDS	PT	WAIT ON SEVERING TOOL, WEATHERFORD.
17:30	18:00	0.50	31PRDR	STKP	STKDS	PT	CONDUCTED SAFETY MEETING WITH WEATHERFORD AND RIG CREW.
18:00	20:00	2.00	31PRDR	STKP	STKDS	PT	RAN IN HOLE WITH WEATHERFORD FREEPOINT TOOL. ENCOUNTERED TOOL FAILURE. PULLED WIRELINE FREEPOINT TOOL AND REPAIRED SAME.
20:00	22:00	2.00	31PRDR	STKP	STKDS	PT	RAN IN HOLE WITH FREE POINT TOOL. FOUND FREE POINT AT 11800'. PULLED OUT OF HOLE WITH FREE POINT TOOL.
22:00	0:00	2.00	31PRDR	STKP	STKDS	PT	PREPARE SEVERING TOOL, RUN IN HOLE AND ATTEMPT TO SEVERE HEAVY WEIGHT PIPE AT 1 JOINT BELOW JARS. 12100' WLM.
Total Time		24.00					

Safety Incident? N **Days since Last RI:** 188.00

Environ Incident? N **Days since Last LTA:** 188.00

Incident Comments:
No incidents reported last 24 hours.

Weather Comments:
RAIN, SNOW

Other Remarks:

RIG FUEL ON HAND 16112 GALS. 1696 USED 6040 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T 25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/15/2009

Report No: 108

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	78.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:**

Current Ops: WORKING LEFT HANDED TORQUE INTO STRING FOR MANUAL BACK OFF

24-Hr Summary: ATTEMPT 2 SEVERS WITH WEATHERFORD, WORK AND JAR STUCK PIPE, CIRC.THROUGH MINOR SEVER IN DRILL STRING AT 12008'

24-Hr Forecast: SEVER PIPE AT 11960', POOH WITH DRILL PIPE., TRIP IN HOLE WITH BIT.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	212.2	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**		**Pump Press:**	1,850.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	24
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:		**MBT:**	20.0 lbm/bbl
Sample From:	PIT	**pH:**	10.2
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.5 / 1.0
Density @ Temp:	8.85 / 139	**Chlorides:**	650
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	62.00	**CaCl2:**	
PV / YP:	18 / 19	**Clom:**	
Gels 10s/10m/30m:	9 / 17 / 23	**Lime:**	
API WL:	7.90	**ES:**	
HTHP WL:	16.40	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	4.10 /	**Carbonate:**	
Oil / Water:	2.5 / 95.9	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	95.90 / 37.20		

VG Meter: 9@3 / 10@6 / 17@100 / 28@200 / 37@300 / 55@600

Comments: Ran wirline to 12008 ft with explosives to seperater pipe and failed. Ran wireline again and set explosives and were able to circulate but not pull pipe. Circulated and conditioned mud. Ran wireline again to 11979 ft and

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
LST-Md	55 GAL/DRUM	4.00
NEWPHALT	50 LB/SX	34.00
PALLETS	EA.	7.00
SHRINK WRAP	EA.	7.00
TAX	EACH	1.00
WALNUT PLUG M	50 LB/SX	5.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/15/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 108

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	5:00	5.00	31PRDR	STKP	STKDS	PT	PICKED UP STRING FOR SEVER VERIFICATION, STRING STILL INTACT . ATTEMPT TO FREE STRING WITH JARRING, ROTATING RIGHT HAND TORQUE TO 32000 FT. LBS. PUMPED IN RANGES FROM 200 PSI TO 3700 PSI.. NO FLOW AND NO MOVEMENT OF STRING.
5:00	7:30	2.50	31PRDR	STKP	STKDS	PT	RAN IN HOLE WITH WIRELINE SEVERING CHARGE. ATTEMPTED TO SEVER STRING IN TENSION AT 12008' 1 JOINT ABOVE JARS. PICKED UP STRING STILL INTACT L/D SIDE ENTRY SUB.
7:30	13:00	5.50	31PRDR	STKP	STKDS	PT	ESTABLISHED CIRCULATION PRESSURE UP TO 4000 PSI SHUT DOWN PUMP BLEED DOWN TO 3500 PSI IN THREE MINUTES. GRADUALLY INCREASE FLOW RATE AS PRESSURE CONSIDERATIONS ALLOW. ATTEMPT TO FREE STRING WITH JARRING, ROTATING RIGHT HAND TORQUE TO 32000 FT. PUMPED 2 1/2 TIMES BOTTOMS UP, ONE 40 BBL HIGH VIS SWEEP. BOTTOMS UP RETURNS AT SHAKER HEAVY MOENKOPI SHALE CUTTINGS VARIOUS SIZES. FCP 3180 PSI @ 700 GPM
13:00	15:00	2.00	31PRDR	STKP	STKDS	PT	P/U SIDE ENTRY RIH WITH 1.75" SPUD BAR ASSEMBLY. ATTEMPTED WORK THROUGH TOOL JOINT AT 12100' WITH NO SUCCESS. POOH WITH WIRE LINE TOOLS. INSTALLED CIRCULATING CAP ON SIDE ENTRY SUB.
15:00	16:30	1.50	31PRDR	STKP	STKDS	PT	CIRCULATED 517 GPM @ 1950 PSI. PREPARE SEVERING TOOL.
16:30	18:00	1.50	31PRDR	STKP	STKDS	PT	RAN IN HOLE WITH WIRELINE SEVERING CHARGE. ATTEMPTED TO SEVER STRING IN TENSION AT 11979' 2 JOINT ABOVE JARS. @ TOP JT. OF HEVI- WT AND BOTTOM JT. OF DRILL PIPE. POOH L/D WIRE LINE TOOLS (MISS FIRE)
18:00	23:00	5.00	31PRDR	STKP	STKDS	PT	L/D SIDE ENTRY SUD, P/U 1 JOINT DRILL PIPE CIRCULATED AND CONDITIONED MUD 550 GPM @ 2010 PSI ATTEMPT TO FREE STRING WITH JARRING, ROTATING RIGHT HAND TORQUE TO 32000 FT. DISPATCHED BLACK WARRIOR PIPE RECOVERY SPECIALIST TO RIG SITE.
23:00	0:00	1.00	31PRDR	STKP	STKDS	PT	START WORKING LEFT HANDED TORQUE DOWN HOLE FOR MANUAL BACKOFF.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	189.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	189.00	CLEAR AT 35 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 13780 GALS. 2332 USED 13,7800 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 9

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 04/16/2009
Report No: 109

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	79.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:** SHALE-MOENKOPE

Current Ops: JARRING STUCK PIPE AT 12803'

24-Hr Summary: ATTEMPT TO SEVER AT 11958' WLM, ATTEMPT TO FREE POINT, LOST WIRE LINE TOOLS IN DRILL PIPE, JAR STUCK PIPE.

24-Hr Forecast: FREE WIRELINE TOOLS MAKE FREEPOINT AND SEVER PIPE AT FREEPOINT.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	460.5	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	1,445.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	2
Contractor Personnel:	24
Total on Site:	26

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76
13,414.0	3.70	97.82	13,256.42	1,080.2	250.0	1,052.6	1.07	1.07

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Graham Flagg\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.4
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 0.9
Density @ Temp:	9.20 / 138	**Chlorides:**	650
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	61.00	**CaCl2:**	
PV / YP:	18 / 19	**Clom:**	
Gels 10s/10m/30m:	8 / 16 / 22	**Lime:**	
API WL:	7.00	**ES:**	
HTHP WL:	15.50	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	5.50 /	**Carbonate:**	
Oil / Water:	2.5 / 92.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.40 / 40.00		

VG Meter: 9@3 / 10@6 / 19@100 / 28@200 / 37@300 / 55@600

Comments: Ran wireline with freepoint and could not get it to desired depth. Circulated and pumped sweeps to clean hole. Went back in with wireline and tool to clear pipe.

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft
Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	2.00
DRILLSTAR HT	25 LB/SK	27.00
DRILLTHIN	25 LB/SX	1.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	8.00
LST-Md	55 GAL/DRUM	9.00
MICA FINE	50 LB/SX	16.00
NEW CARB C	50 LB/SX	10.00
NEW GEL HY	50 LBS/SK	51.00
NEWPAC R	50 LB/SX	2.00
NEWPHALT	50 LB/SX	5.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/16/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 109

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	31PRDR	STKP	STKDS	PT	ATTEMPT TO WORK LEFT HANDED TORQUE DOWN HOLE FOR MANUAL BACK OFF. NO SUCCESS
1:30	2:00	0.50	31PRDR	STKP	STKDS	PT	CONDUCT SAFETY MEETING WITH BLACK WARRIOR PIPE RECOVERY SPECIALIST.
2:00	4:00	2.00	31PRDR	STKP	STKDS	PT	RIGGED UP WIRLEINE SHEAVES AND SIDE ENTRY SUB. PREPARE SEVERING TOOL FOR PIPE SEVER AT 11969'.
4:00	5:00	1.00	31PRDR	STKP	STKDS	PT	RAN IN HOLE WITH WIRELINE SEVERING TOOL AND ATTEMPT PIPE SEVER PIPE AT 11958' WLM, (11969' PIPE TALLY), PULL OUT OF HOLE WITH WIRELINE. ALL WIRELINE SEVERING TOOLS RETRIEVED. PIPE SEVER UNSUCCESSFUL.
5:00	5:30	0.50	31PRDR	STKP	STKDS	PT	LAY DOWN SWIVEL SIDE ENTRY SUB, P/U SINGLE DP.
5:30	9:00	3.50	31PRDR	STKP	STKDS	PT	WORK STUCK PIPE USING ROTARY TORQUE AND JARS. CP 844 PSI @ 328 GPM
9:00	9:30	0.50	31PRDR	STKP	STKDS	PT	L/D SINGLE DP, P/U SWIVEL SIDE ENTRY SUB.
9:30	12:30	3.00	31PRDR	STKP	STKDS	PT	RIH WITH 1 7/16" OD COLLAR LOCATOR TAG @ 3556' STRAIGTENED FOULED WIRE LINE SPOOL. POOH WITH WIRELINE TOOLS
12:30	13:00	0.50	31PRDR	STKP	STKDS	PT	L/D SWIVEL SIDE ENTRY SUB, P/U SINGLE DP.
13:00	16:30	3.50	31PRDR	STKP	STKDS	PT	WORK STUCK PIPE USING ROTARY TORQUE AND JARS. CIRCULATED AND CONDITIONED HOLE. PUMPED TWO 40 BBL HIGH VIS SWEEPS SURFACE TO SURFACE. BOTTOMS UP AND BOTH SWEEPS BROUGHT HEAVY CUTTINGS MOENKOPI FORMATION VARIOUS SIZES. CIRCULATED WELL BORE CLEAN. CP 3800 PSI 800 GPM
16:30	17:00	0.50	31PRDR	STKP	STKDS	PT	L/D SINGLE DP, P/U SWIVEL SIDE ENTRY SUB.
17:00	18:00	1.00	31PRDR	STKP	STKDS	PT	RIH WITH SPUD ASSEMBLY TAG AT 3577' WORKED DOWN TO 3614' STUCK JARRED UP MOVING WORKED TIGHT SPOT PULLED OUT OF ROPE SOCKET 4,500 K. PULL OUT OF DRILL PIPE WITH WIRE LINE. WIRE LINE TOOLS LEFT IN DRILL PIPE. 1 7/16" OD ROPE SOCKET, 1 11/16" OD WEIGHT BAR, 1 11/16" OD SPANG JAR, 1 1/2'OD OIL JAR, 1 1/2" OD SPEAR. FISH TOP 3599'
18:00	18:30	0.50	31PRDR	STKP	STKDS	PT	INSTALL NIGHT CAP ON SIDE ENTRY SUB. CIRCULATED. CP 800 PSI. 320 GPM
18:30	19:00	0.50	31PRDR	STKP	STKDS	PT	INTALLED DRILL PIPE SCREEN BELOW SAVER SUB.
19:00	20:00	1.00	31PRDR	STKP	STKDS	PT	RIH WITH 1 7/16 COLLAR LOCATOR AND 1 11/16" OD WEIGHT BAR. TAG TOP OF SPUD ASSEMBLE @ 3599' POOH WITH WIRE LINE TOOLS.
20:00	22:00	2.00	31PRDR	STKP	STKDS	PT	L/D SWIVEL SIDE ENTRY SUB, P/U SINGLE DP.
22:00	0:00	2.00	31PRDR	STKP	STKDS	PT	BREAK CIRCULATION, PUMPED CARBIDE, LAG TIME 7557 STROKES = 11787' +/-. PUMPED SWEEPS, RECIEVED HEAVY CUTTINGS AT SHAKER. JARRED UP AND DOWN, WITH ZERO PROGRES.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	190.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	190.00	SNOW AT 32 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 11872 GALS. USED 1908. RECEIVED 0 GALLONS

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 15

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/17/2009

Report No: 110

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	80.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:**

Current Ops: LAY DOWN E-LINE WIRELINE TOOLS (FISH)

24-Hr Summary: JARRED STUCK PIPE, RETRIEVE E-LINE WIRELINE SPUD ASSEMBLY.

24-Hr Forecast: REMOVE OBSTRUCTION FROM DRILL PIPE,DOWN HOLE.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	552.6	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**		**Pump Press:**	2,950.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	28
Total on Site:	29

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Graham flagg\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.3
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 1.0
Density @ Temp:	9.30 / 138	**Chlorides:**	600
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	60.00	**CaCl2:**	
PV / YP:	18 / 19	**Clom:**	
Gels 10s/10m/30m:	8 / 17 / 23	**Lime:**	
API WL:	7.10	**ES:**	
HTHP WL:		**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	5.90 /	**Carbonate:**	
Oil / Water:	2.1 / 92.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.50 / 41.30		

VG Meter: 9@3 / 10@6 / 20@100 / 29@200 / 37@300 / 55@600

Comments: Ran in hole with spud tool on end of wireline to clear obstruction. Stuck tool and pulled oput of cable clamp.. Attempted freeing spud tool with two fishing tools with no luck. Obtained impression of fish and ordered

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
CAUSTIC SODA	50 LB/SX	1.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	290.00
NEW GEL HY	50 LBS/SK	38.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/17/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 110

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	5:00	5.00	31PRDR	STKP	STKDS	PT	WORK STUCK PIPE USING ROTARY TORQUE AND JARS. CIRCULATED AND CONDITIONED HOLE. PUMPED TWO 40 BBL HIGH VIS SWEEPS SURFACE TO SURFACE. BOTTOMS UP AND BOTH SWEEPS BROUGHT MODERATE CUTTINGS MOENKOPI FORMATION. CIRCULATED WELL BORE CLEAN. CP 2200 550 GPM
5:00	5:30	0.50	31PRDR	STKP	STKDS	PT	LAY DOWN TOP SINGLE AND PICK UP SIDE ENTRY SUB.
5:30	6:00	0.50	31PRDR	STKP	STKDS	PT	CONDUCT SAFETY MEETING WITH SUPERIOR SLICK LINE SERVICES.
6:00	11:00	5.00	31PRDR	STKP	STKDS	PT	RIH WITH WIRE LINE TOOLS (JDC PULLING TOOL, SPANG JAR, OIL JAR, WEIGHT BAR, KNUCKLE JOINT,CABLE HEAD) TAG 3599'. MADE ATTEMPTS TO LATCH FISH NO SUCCESS. POOH. INSTALLED KNUCKLE JOINT BETWEEN JDC PULLING TOOL AND SPANG JAR. RIH TO 3599' MADE ATTEMPTS TO LATCH FISH WITH DRILL STRING IN COMPRESSION, NEUTRAL AND TENSION. NO SUCCESS. POOH REMOVED JDC PULLING TOOL AND BOTTOM KNUCKLE JOINT INSTALLED 2.25" OD LEAD IMPRESSION BLOCK. RIH SET DOWN @ 3599' POOH WITH WIRE LINE TOOLS. (IMPRESSION BLOCK SHOWED TOP OF FISH TO BE CLEAR OF ANY OBSTRUCTIONS).
11:00	21:30	10.50	31PRDR	STKP	STKDS	PT	BREAK CIRCULATION INCREASED FLOW RATE TO 560 GPM 3100 PSI. PUMPED TWO 40 BBL HIGH VIS SWEEP SURFACE TO SURFACE BOTTOMS UP AND BOTH SWEEP BROUGHT MODERATE CUTTINGS MOENKOPI FORMATION. PREFORMED RIG MAINTANCE INSTALLED ROTARY IMPUT CHAIN IN DRAW WORKS AND ROTARY CHAIN TO ROTARY TABLE. BUILD AND INSTALLED CHAIN GAURDS.
21:30	22:30	1.00	31PRDR	STKP	STKDS	PT	RIGGED UP BRAIDED WIRELINE FOR RETRIEVING E-LINE WIRELINE TOOLS FROM DRILL PIPEWITH WEIGHT BARS OIL JARS, SPANG JARS AND OVERSHOT.
22:30	0:00	1.50	31PRDR	STKP	STKDS	PT	RUN IN HOLE TO TOP OF FISH (E-LINE TOOLS). GRAPPLE FISH AND PULL OUT OF HOLE WITH FISHING ASSEMBLY AND E-LINE TOOLS.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	191.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	191.00	CLEAR AT 35 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 16112 GALS. 1696 USED 6040 GALS. RECEIVED

1 ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 8

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/18/2009

Report No: 111

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	81.66
Today's MD:	13,992.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	13,992.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	S MEMBER@13,482.0			Lithology:			
Current Ops:	INSPECTING TOP DRIVE AND DRILL LINE.						
24-Hr Summary:	RAN BLIND BOX IN DP. MOVED OBRTUCTION FROM 3666' TO 3905'. CIRCULATED, MADE MANUAL BACK OFF AT 1832'.						
24-Hr Forecast:	SCREW INTO DRILL STRING, CLEAN DRILL STRING ID, MAKE FREEPOINT.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	657.2	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	3,375.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	25
Total on Site:	29

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:		MBT:	27.5 lbm/bbl
Sample From:	PIT	pH:	10.4
Mud Type:	FRESH WATER POLYMER W	Pm / Pom:	
Time / MD:	0:01 / 13,992.0	Pf / Mf:	0.6 / 1.1
Density @ Temp:	9.30 /	Chlorides:	600
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	129.00	CaCl2:	
PV / YP:	26 / 35	Clom:	
Gels 10s/10m/30m:	25 / 34 / 35	Lime:	
API WL:	6.80	ES:	
HTHP WL:	15.10	ECD:	
Cake API / HTHP:	/	n / K:	/
Solids / Sol Corr:	5.90 /	Carbonate:	
Oil / Water:	2.1 / 92.0	Bicarbonate:	
Sand:	0.10	Form Loss:	0.0 / 10,204.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.50 / 41.30		

VG Meter: 17@3 / 18@6 / 38@100 / 51@200 / 61@300 / 87@600

Comments: Ran in with second imprint tool. Circulated and raised suspension properties of mud. Trying to back pipe off manually @ 4500 ft.

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft Wt below Jars: 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	20.00
NEW BAR	100 LB/SX	40.00
NEW GEL HY	50 LBS/SK	193.00
NEW SWELL	50 LBS/SK	2.00
PALLETS	EA.	13.00
SALT	50 LB/SX	1.00
SHRINK WRAP	EA.	13.00
TAX	EACH	1.00
WALNUT PLUG M	50 LB/SX	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/18/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 111

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRDR	STKP	STKDS	PT	LAY DOWN RETRIEVED WIRE LINE TOOLS AND RIG UP TO RUN IMPRESSION BLOCK.
1:00	1:45	0.75	31PRDR	STKP	STKDS	PT	RUN IN HOLE WITH IMPRESSION BLOCK. TAG UP AT 3663'. PULL OUT OF HOLE AND CHECK IMPRESSION BLOCK. (POSSIBLE PICTURE OF WIRE LINE.
2:00	4:30	2.50	31PRDR	STKP	STKDS	PT	RIG UP AND RUN BLIND BOX TO PUSH OBSTRUCTION DOWN PIPE. HIT OBSTRUCTION 5 TIMES AND MOVED IT 34' TO 3700'.. HIT OBSTRUCTION 6 TIMES AND MOVED IT 15' TO 3715'. HIT OBSTRUCTION ONE TIME AND MOVED IT 95' TO 3810'. HIT OBSTRUCTION ONE TIME AND MOVED IT 95' TO 3905'. HIT OBSTRUCTION SEVERAL TIMES WITH NO MOVEMENT. PULLED OUT OF HOLE WITH WIRELINE BLIND BOX.
4:30	8:00	3.50	31PRDR	STKP	STKDS	PT	BREAK CIRCULATION WITH 100 GPM 350 PSI, INCREASE PUMP RATE IN SLOW INCREMENTS TO 550 GPM WITH 2700 PSI. PUMPED 40 BBL HIGH VIS SWEEP SURFACE TO SURFACE. MODERATE MOENKOPI FORMATION CUTTINGS. WORK ON ROTARY TABLE AND PUMP 40 BBLHIGH VIS SWEEP.
8:00	9:30	1.50	31PRDR	STKP	STKDS	PT	RUN IN HOLE WITH IMPRESSION BLOCK. TAG UP AT 3905' POOH WITH WIRE LINE TOOLS.
9:30	13:00	3.50	31PRDR	STKP	STKDS	PT	BREAK CIRCULATION INCREASED FLOW RATE TO 550 GPM. 2550 PSI. PUMPED 40 BBL HIGH VIS SWEEP SURFACE TO SURFACE. MODERATE MOENKOPI FORMATION CUTTINGS.
13:00	14:00	1.00	31PRDR	STKP	STKDS	PT	R/D SUPERIOR WILE LINE EQUIPMENT. L/D SIDE ENTRY SUB ASSEMBLY CHANGE OUT SAVER SUB P/U SINGLE JOINT DRILL PIPE.
14:00	18:00	4.00	31PRDR	STKP	STKDS	PT	CIRCULATED AND CONDITIONED MUD RAISE VIS TO 120 CIRCULATED WELL BORE CLEAN. FCP 3375 @ 657 GPM L/D SINGLE DRILL PIPE.
18:00	22:30	4.50	31PRDR	STKP	STKDS	PT	MAKE MANUAL BACKOFF TO DEEPEST POINT POSSIBLE. WORKED LEFT HANDED TORQUE DOWN DRILLSTRING. RECIPROCATION WITH 370K TO 450K. BACKOFF OCCURED AT 1832'.
22:30	0:00	1.50	31PRDR	STKP	STKDS	PT	DURING BACKOFF STRING JARRED TOP DRIVE. INSPECT AND MAKE NECESSARY ADJUSTMENTS TO TOP DRIVE.
Total Time		23.75					

Safety Incident?	N	**Days since Last RI:**	192.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	192.00	CLEAR AT 40 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND 7632 GALS. 2120 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 10

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/19/2009

Report No: 112

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	82.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	S MEMBER@13,482.0			**Lithology:**			
Current Ops:	TRIPPING OUT OF HOLE WITH BACKED OFF STRING						
24-Hr Summary:	POOH WITH SHALLOW BACK OFF, TRIP IN HOLE, SCREW INTO STRING, WORK PIPE LOOSE FROM DEEP SEVER.						
24-Hr Forecast:	FINISH POOH, MAKE CLEAN UP RUN TO TOP OF FISH.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	418.6	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**		**Pump Press:**	2,027.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	22
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Graham Flagg\ Andrew Miles	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.2
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.5 / 1.0
Density @ Temp:	9.35 /	**Chlorides:**	600
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	120.00	**CaCl2:**	
PV / YP:	26 / 32	**Clom:**	
Gels 10s/10m/30m:	23 / 33 / 44	**Lime:**	
API WL:	6.80	**ES:**	
HTHP WL:	15.00	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	5.90 /	**Carbonate:**	
Oil / Water:	2.1 / 92.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.10 / 37.40		

VG Meter: 18@6 / 17@17 / 31@100 / 47@200 / 58@300 / 84@600

Comments: Manually backed off pipe around 1800 ft. TIH and circulated box clean before screwing back in. Rotated, circulated and worked pipe. According to calculations pipe was free around bottom of drill pipe. Currently

LAST OR CURRENT BHA

BHA No: 20 Bit No: 16 MD In: 13,992.0 ft

Purpose: STEER TO VERTICAL MD Out: 13,992.0 ft

Component	OD	ID	Jts	Length
PDC BIT	8.500	1.750	1	1.00
ROTARY STEERABLE MOTOR	6.500	2.312	1	13.43
FLOAT SUB	6.438	2.438	1	3.11
ROTARY STEERABLE MOTOR	6.125	1.500	1	35.50
CROSSOVER	6.500	2.875	1	3.10
MWD TOOL	6.875	2.812	1	30.40
NON-MAG INTEGRAL BLADE STABILIZER	6.812	2.500	1	6.17
NON-MAG DRILL COLLAR	6.750	2.750	1	30.54
CROSSOVER	6.375	2.812	1	4.74
DRILL COLLAR	6.312	2.875	8	245.67
CROSSOVER	6.500	2.812	1	3.10
HWDP	5.000	3.062	12	364.15
DRILLING JAR	6.562	2.750	1	32.38

Total Length: 834.08 ft **Wt below Jars:** 47,923.0 kip

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/19/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 112

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRDR	STKP	STKDS	PT	INPECT AND MAKE NECESSARY ADJUSTMENTS TO TOP DRIVE.
1:00	2:00	1.00	31PRDR	STKP	STKDS	PT	CIRCULATE 3 TIMES BOTTOMS UP. CLEAR RIG FLOOR.
2:00	5:00	3.00	31PRDR	STKP	STKDS	PT	PULL OUT OF HOLE WITH 19 STANDS AND A DOUBLE, 1864'. CHECK AND RE-TORQUEE ALL CONNECTIONS. LAY DOWN 2 DAMAGED JOINTS.
5:00	6:00	1.00	31PRDR	STKP	STKDS	PT	LAY DOWN BACKED OFF SINGLE AND PREPARE TO TRIP IN HOLE, TO SCREW INTO DRILL STRING.
6:00	8:00	2.00	31PRDR	FISH		PT	TRIP IN HOLE TO TAGGED FISH AT 2022'. APPEARS FISH DROPPED DOWN HOLE 80'-95'
8:00	9:30	1.50	31PRDR	RIGMT	SRVRIG	PT	SLIP AND CUT DRILLING LINE.
9:30	11:00	1.50	31PRDR	STKP	STKDS	PT	TAG TOP OF FISH AND SCREW INTO TOOL JOINT. CIRCULATE AND WORK TORQUE DOWN. FISH CAME FREE AND STARTED ROTATING. 323K ON WEIGHT INDICATOR.
11:00	11:30	0.50	31PRDR	STKP	STKDS	PT	ROTATE AND CIRCULATE.
11:30	18:00	6.50	31PRDR	RIGMT	REP	PT	WORK ON RIG GENERATORS.
18:00	19:00	1.00	31PRDR	STKP	STKDS	PT	CIRCULATED AND PREPARED RIG FLOOR FOR TRIP OUT OF HOLE
19:00	21:00	2.00	31PRDR	STKP	STKDS	PT	TRIP OUT OF HOLE WITH STRING FROM BACKOFF-SEVER. PULLED UP INTO CASING SHOE.
21:00	22:30	1.50	31PRDR	STKP	STKDS	PT	RIGGED DOWN BLACK WARRIOR WIRELINE, REMOVE ROTATING HEAD ELEMENT.
22:30	0:00	1.50	31PRDR	STKP	STKDS	PT	CONTINUE TRIPPING OUT OF HOLE OUT OF HOLE WITH STRING FROM BACKOFF-SEVER. CHECKED ALL TOOL JOINTS FOR ADEQUATE TORQUE, ENCOUNTERED SEVERAL DAMAGED NRPS UNSAFE TO RACK IN DERRICK.. REMOVED NRP'S FROM DRILL PIPE.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	193.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	193.00	CLEAR AT 36 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 10812 GALS. 1060 USED 4000 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30259

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/20/2009

Report No: 113

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	83.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:**

Current Ops: TRIPPING IN HOLE AT 7735'

24-Hr Summary: PULL OUT OF WITH SEVERED STRING TOTAL RECOVERY 11723' DRILL PIPE.

24-Hr Forecast: TRIP IN HOLE REAM FROM 10217' TO BOTTOM.

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	0.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	22
Total on Site:	23

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
16	8.500	HUGHES CHRISTENS	HC505ZX	7121528	M323	3x13, 2x12	13,992.0	13,992.0	- -	- -
17	8.500	REED	HP 11+	32580D	M 123	3x32	11,698.0	11,698.0	1-1-NO-A	1-I-NO-LOG

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	Graham Flagg\ Andrew Miles	**MBT:**	22.5 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 0.8
Density @ Temp:	9.30 /	**Chlorides:**	600
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	78.00	**CaCl2:**	
PV / YP:	22 / 25	**Clom:**	
Gels 10s/10m/30m:	17 / 24 / 31	**Lime:**	
API WL:	7.40	**ES:**	
HTHP WL:	15.60	**ECD:**	
Cake API / HTHP:	/	**n / K:**	/
Solids / Sol Corr:	5.90 /	**Carbonate:**	
Oil / Water:	2.1 / 92.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.50 / 41.30		

VG Meter: 14@3 / 15@6 / 26@100 / 34@200 / 47@300 / 69@600

Comments: TOOH 11722 ft of pipe. Picked up new BHA and mill bit. Currently TIH.

LAST OR CURRENT BHA

BHA No: 21 Bit No: 17 MD In: 11,698.0 ft

Purpose: MD Out: 11,698.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	8.500	2.500	1	1.00
BIT SUB	6.500	2.750	1	3.00
DRILL COLLAR	6.375	2.750	3	92.10
CROSSOVER	6.375	2.875	1	3.00
HWDP	5.000	3.062	12	368.40
DRILLING JAR	6.375	2.750	1	32.00
BHA DRILL PIPE	5.000	3.062	2	61.70

Total Length: 561.20 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	5.00
NEW CARB C	50 LB/SX	6.00
NEWEDGE	50 LB/SX	18.00
SODA ASH	50 LBS/SK	4.00
TAX	EACH	1.00
TRUCKING SERVICE	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/20/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 113

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	10:30	10.50	31PRDR	STKP	STKDS	PT	CONTINUED TRIPPING OUT OF HOLE WITH STRING FROM BACKOFF-SEVER. CHECKED ALL TOOL JOINTS FOR ADEQUATE TORQUE, REMOVED NRP'S FROM DRILL PIPE. TOTAL PIPE RECOVERED 123 STANDS AND 28.65' OF A SINGLE. TOTAL LENGTH DRILL PIPE RECOVERED 11,722.63'. P/U SIDE ENTERY BREAK CONNECTIONS.
10:30	11:30	1.00	31PREV	RIGMT	SRVRIG	P	RIG SERVICE GREASE CROWN, BLOCKS, AND TOP DRIVE TRACK.
11:30	13:30	2.00	31PREV	TRIP	BHA	P	CLEAN RIG FLOOR AREA PREPARE FOR TIH. RACK AND STRAP BHA.
13:30	14:30	1.00	31PREV	TRIP	BHA	P	P/U 3 - 6.5" DC'S AND BIT SUB.
14:30	15:30	1.00	31PREV	TRIP	BHA	P	REMOVE 6 JOINTS HEVI-WT FROM PIPE RACKS. REMOVE NRP'S BASKETS OUT OF BUFFER ZONE.
15:30	0:00	8.50	31PREV	TRIP	DRILL	P	P/U TOOTH BIT AND REST OF BHA. RIH RABBIT STDS OF DRILL PIPE. CURRENT DEPTH 7736'.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	194.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	194.00	CLEAR AT 35 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 9752 GALS. 1060 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 6

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/21/2009

Report No: 114

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	84.66
Today's MD:	13,992.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	13,992.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	S MEMBER@13,482.0			Lithology:			
Current Ops:	PULLING OUT OF HOLE.						
24-Hr Summary:	TRIPPED IN HOLE TO 11769', CIRCULATED. MADE SHORT TRIP. PULLED OUT HOLE TO LOG						
24-Hr Forecast:	LOG OPEN HOLE TO 11600'. LOG CASED HOLE WITH SEISMIC LOG.						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	350.0/ 300.0 kip	Pump Rate:	544.2	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:	330.0 kip	Pump Press:	2,285.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:	13,000.0 ft-lbf			Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	SIMON BENAVIDES
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	26
Total on Site:	27

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
17	8.500	REED	HP 11+	32580D	M 123	3x32	11,698.0	11,698.0	1-1-NO-A	1-I-NO-LOG

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
17	0.00	0.00	0.0	0.0	0.0	0.0	5.0/5.0	25/35	2.356	54.8	79.7	0.3

MUD DATA - NEWPARK-AVA

Engineer:		MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	FRESH WATER POLYMER W	Pm / Pom:	
Time / MD:	0:01 / 13,992.0	Pf / Mf:	0.4 / 0.8
Density @ Temp:	9.65 /	Chlorides:	550
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	75.00	CaCl2:	
PV / YP:	22 / 24	Clom:	
Gels 10s/10m/30m:	17 / 24 / 32	Lime:	
API WL:	7.20	ES:	
HTHP WL:	15.40	ECD:	
Cake API / HTHP:	/	n / K:	/
Solids / Sol Corr:	7.40 /	Carbonate:	
Oil / Water:	2.1 / 91.5	Bicarbonate:	
Sand:	0.10	Form Loss:	0.0 / 10,204.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	4.90 / 44.70		

VG Meter: 15@3 / 16@6 / 23@100 / 34@200 / 46@300 / 68@600

Comments: TIH to shoe and circulated. TIH and 11700 ft and tagged fish. Pumpedsweep to clean hole. TOOH to shoe and back in for wiper run. Pumped sweep to insure hole was clean. Pumped 70 BBL slug and TOOH.

LAST OR CURRENT BHA

BHA No: 21 Bit No: 17 MD In: 11,698.0 ft

Purpose: MD Out: 11,698.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	8.500	2.500	1	1.00
BIT SUB	6.500	2.750	1	3.00
DRILL COLLAR	6.375	2.750	3	92.10
CROSSOVER	6.375	2.875	1	3.00
HWDP	5.000	3.062	12	368.40
DRILLING JAR	6.375	2.750	1	32.00
BHA DRILL PIPE	5.000	3.062	2	61.70

Total Length: 561.20 ft Wt below Jars:

MUD PRODUCTS

Product	Units	Qty Used
BUSAN	40 LB/SX	5.00
CAUSTIC SODA	50 LB/SX	3.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FLOW-ZAN	25 LB SX	13.00
LST-Md	55 GAL/DRUM	1.00
NEW BAR	100 LB/SX	440.00
NEW GEL HY	50 LBS/SK	140.00
NEWPAC R	50 LB/SX	1.00
NEWPHALT	50 LB/SX	13.00
PALLETS	EA.	12.00
SHRINK WRAP	EA.	12.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/21/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 114

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	31PREV	TRIP	DRILL	P	CONTIUE IN HOLE FOR CLEAN UP TRIP..
3:00	3:15	0.25	31PREV	TRIP	DRILL	P	TRIP IN HOLE TO 10270'. LAID DOWN SIX BAD DRILL PIPE JONITS FROM DERRICK.
3:15	4:00	0.75	31PREV	CIRC	CNDFLD	P	CIRCULATED AND CONTIONED MUD. AT 10270
4:00	6:00	2.00	31PREV	TRIP	DRILL	P	TRIPPED IN HOLE 10270' TO 11020'.STAGED IN CIRCULATING FROM 10640' TO 10735. AND 10925' TO 11020'. NO HOLE PROBLEMS.
6:00	10:30	4.50	31PREV	REAM	PRRM	P	WASH AND REAM 11020' TO 11679' BOTTOMS UP HEAVY CUTTINGS. TORQUE 8-12 K FT. LBS BIT WT. 2-5 K
10:30	11:30	1.00	31PREV	REAM	PRRM	P	WASH AND REAM 11679' TO 11768' TORQUE 12-16 K FT.LBS BIT WT. 2-5 K PUMPED HIGH VIS SWEEP SURFACE TO SURFACE HEAVY CUTINGS FISH TOP @ 11698'
11:30	15:00	3.50	31PREV	CIRC	CNDHOL	P	PULLED BACK TO 11679' CIRCULATED AND CONDITIONED HOLE. RAISED MUD WT TO 9.6+ PUMPED TWO 70 BBL HIGH VIS SWEEPS SURFACE TO SURFACE. FIRST SWEEP UP HEAVY CUTTINGS AT SHAKERS, SECOND SWEEP MODERATE CUTTINGS. CIRCULATED WELL BORE CLEAN. PUMPED 30 BBL 10.5 PPB SLUG.
15:00	16:00	1.00	31PREV	TRIP	WIPER	P	WIPER TRIP FROM 11679' INTO CASING SHOE 10217' NO HOLE PROBLEMS.
16:00	17:30	1.50	31PREV	TRIP	WIPER	P	WIPER TRIP FROM CASING SHOE 10217' TO 11679' NO HOLE PROBLEMS.
17:30	19:00	1.50	31PREV	CIRC	CNDHOL	P	CIRCULATED AND CONDITIONED HOLE @ 11679'. PUMPED 70 BBL HIGH VIS.SWEEP SURFACE TO SURFACE. LIGHT CUTTINGS AT SHAKERS CIRCULATED WELL BORE CLEAN. PUMPED 70 BBL 11.3 PPB SLUG. CP 2285 PSI @ 585 GPM.
19:00	0:00	5.00	31PREV	TRIP	DRILL	P	TRIPPED OUT HOLE FOR LOGGING RUN. PULLED 370K 40K OVER. ENCOUNTERED ONE SPOT WITH 80 K OVER AT 11272'.
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	195.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	195.00	CLEAR AT 35 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 15264 GALS. 1696 USED 70000 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 10

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-047-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/22/2009

Report No: 115

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	85.66
Today's MD:	11,698.0 ft	**Progress:**	-2,294.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:**

Current Ops: LOGGING WITH VSP/THUMPER AT 11,600'

24-Hr Summary: POOH, RU TO LOG, RUN 1- QUAD COMBO, RUN 2- CBL, RUN 3- D4TGX, XRMI, RUN 4- VSP WITH THUMPER

24-Hr Forecast: LOG HOLE TO 500', RD HES, LD DC'S & HWDP, RIH WITH DP TO TOF FOR P & A

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	345.0/ 307.0 kip	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**	324.0 kip	**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	29
Total on Site:	30

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
17	8.500	REED	HP 11+	32580D	M 123	3x32	11,698.0	11,698.0	1-1-NO-A	1-I-NO-LOG

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 1.0
Density @ Temp:	9.65 / 90	**Chlorides:**	550
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	75.00	**CaCl2:**	
PV / YP:	21 / 24	**Clom:**	
Gels 10s/10m/30m:	15 / 25 / 29	**Lime:**	
API WL:	7.60	**ES:**	
HTHP WL:	15.70	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	7.50 / 7.50	**Carbonate:**	
Oil / Water:	2.0 / 90.5	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	5.10 / 46.20		

VG Meter: 14@3 / 15@6 / 32@100 / 23@200 / 45@300 / 66@600

Comments: FINISHED TOOH WITH NO PROBLEMS. RIGGED UP LOGGERS AND RAN LOGS TO 11625 WITH NO PROBLEMS. MADE THREE RUNS WITH NO PROBLEMS. CURRENTLY LOGGING.

LAST OR CURRENT BHA

BHA No: 21 Bit No: 17 MD In: 11,698.0 ft

Purpose: MD Out: 11,698.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	8.500	2.500	1	1.00
BIT SUB	6.500	2.750	1	3.00
DRILL COLLAR	6.375	2.750	3	92.10
CROSSOVER	6.375	2.875	1	3.00
HWDP	5.000	3.062	12	368.40
DRILLING JAR	6.375	2.750	1	32.00
BHA DRILL PIPE	5.000	3.062	2	61.70

Total Length: 561.20 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/22/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 115

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	31PREV	TRIP	DRILL	P	FINISH TRIPPING OUT OF HOLE
2:00	2:30	0.50	31PREV	SAFE	PJSM	P	CONDUCTED PRE-JOB SAFETY MEETING WITH HALLIBURTON ENERGY SERVICES AND RIG CREWS.
2:30	3:30	1.00	31PREV	LOG	RIGUP	P	RIGGED UP HALLIBURTON WIRELINE LOGGING EQUIPMENT AND LUBRICATOR.
3:30	10:30	7.00	31PREV	LOG	OHLOG	P	ASSEMBLE QUAD STACK (DEN.,SONIC, RES., GR.). PERFORM LOG VERIFICATION & RUN IN HOLE TO 10450'. MAKE REPEAT PASS AND CASING CHECK TO 10200'. RUN IN HOLE TO 11625'. LOGGED FROM 11625' TO 8650'. TOOLS POWERED DOWN AT 8650' POOH WITH TOOLS. FOUND FLUID LEAK AT CABLE HEAD. RUN # 1 QUAD STACK ASSEMBLY LENGTH. 85'.
10:30	11:30	1.00	31PREV	LOG	RIGUP	P	L/D QUAD STACK, P/U CBL TOOLS
11:30	14:00	2.50	31PREV	LOG	CHLOG	P	RIH WITH CBL TOOLS TO 10200', RUN # 2 LOGGED FROM 10200' TO 7000' CBL ASSEMBLY LENGHT 35.55" CEMENT TOP @ 9020' POOH WITH TOOLS
14:00	15:00	1.00	31PREV	LOG	RIGUP	P	L/D CBL TOOLS, P/U D4TGX, XRMI TOOLS
15:00	20:00	5.00	31PREV	LOG	OHLOG	P	RIH WITH D4TGX, XRMI TOOLS TO 11600', RUN # 3 LOGGED FROM 11600' TO 10250' ASSEMBLE LENGHT 43.07' POOH WITH TOOLS.
20:00	21:00	1.00	31PREV	LOG	RIGUP	P	L/D D4TGX, XRMI TOOLS. P/U VSP TOOLS
21:00	0:00	3.00	31PREV	LOG	OHLOG	P	RIH WITH VSP TOOLS TO 11600', RUN # 4 CORELATE WITH GAMMA LOGS AT 11450' ASSEMBLE LENGTH 62.00'
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	196.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	196.00	CLEAR 38 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 14628 GALS. 636 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 10

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/23/2009

Report No: 116

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	86.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	11,698.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	S MEMBER@13,482.0			**Lithology:**			
Current Ops:	TIH @ 11025'						
24-Hr Summary:	LOGGING WITH VSP/ THUMPER AT F/ 11600' TO 500', TIH W/ MULESHOE ON DP TO 11025'						
24-Hr Forecast:	TIH TO TOF,CBU,PUMP CMT PLUG,POOH,CIRC DP CLEAR,WOC,TIH & TAG,POOH, PUMP PLUG AT 10200',POOH TO CUT CSG						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	**Str Wt Up/Dn:**	/	**Pump Rate:**	0.0	**Conn:**		
Next Casing:	5.500in @ 16,000ft	**Str Wt Rot:**		**Pump Press:**	0.0	**Trip:**		
Last BOP Press Test:	03/29/2009	**Torq Off Btm:**				**Backgr:**		
Form Test/EMW:	LOT / 12.93 ppg	**Torq On Btm:**						

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	30
Total on Site:	31

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
17	8.500	REED	HP 11+	32580D	M 123	3x32	11,698.0	11,698.0	1-1-NO-A	1-I-NO-LOG

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	**MBT:**	27.5 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 0.9
Density @ Temp:	9.70 / 75	**Chlorides:**	550
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	76.00	**CaCl2:**	
PV / YP:	22 / 23	**Clom:**	
Gels 10s/10m/30m:	13 / 24 / 29	**Lime:**	
API WL:	7.80	**ES:**	
HTHP WL:	15.75	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	8.00 / 8.00	**Carbonate:**	
Oil / Water:	2.0 / 90.0	**Bicarbonate:**	
Sand:	0.10	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	5.70 / 51.90		

VG Meter: 12@3 / 13@6 / 26@100 / 35@200 / 45@300 / 67@600

Comments: FINISHED RUNNING LOGGS WITH NO PROBLEMS. RIGGED DOWN LOGGERS. BEGAN TIH TO PERFORM PLUGGING OPPERATIONS.

LAST OR CURRENT BHA

BHA No: 21 Bit No: 17 MD In: 11,698.0 ft

Purpose: MD Out: 11,698.0 ft

Component	OD	ID	Jts	Length
TRI-CONE BIT	8.500	2.500	1	1.00
BIT SUB	6.500	2.750	1	3.00
DRILL COLLAR	6.375	2.750	3	92.10
CROSSOVER	6.375	2.875	1	3.00
HWDP	5.000	3.062	12	368.40
DRILLING JAR	6.375	2.750	1	32.00
BHA DRILL PIPE	5.000	3.062	2	61.70

Total Length: 561.20 ft **Wt below Jars:**

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
TRUCKING SERVICE	EACH	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/23/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 116

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	12:30	12.50	31PREV	LOG	OHLOG	P	LOGGING WITH VSP/ THUMPER, RUN # 4 LOGGED FROM 11600' TO 500' ASSEMBLE LENGTH 62.00'
12:30	14:00	1.50	31PREV	LOG	RIGUP	P	R/D LOGGING EQUIPMENT
14:00	15:30	1.50	61ABND	TRIP	BHA	P	L/D BHA
15:30	22:30	7.00	61ABND	TRIP	CMT	P	P/U 8' 5" PERFORATED MULE SHOE, RIH WITH DRILL PIPE TO 10,135'
22:30	23:00	0.50	61ABND	CIRC	CNDFLD	P	ESTABLISH CIRCULATION AT 9 5/8" SHOE STAGE UP PUMP TO 545 GPM AT 1730 PSI PU 300K SO 256K
23:00	0:00	1.00	61ABND	TRIP	CMT	P	CONTINUE TO TRIP IN OPEN HOLE TO 11,025 NO HOLE PROBLEMS NOTE: TIH FROM SURFACE WAS SLOWED BY NO DYNO-MATIC DUE TO FAILED ACCUATING CONTROL FOR ELECTRIC BRAKE
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	197.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	197.00	CLEAR 42 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 15,688 GALS. 1060 USED 2502 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 18

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

RIG DYNO-MATIC INOPERABLE LAST 24 HRS
NABORS MECH ON LOCATION AT 23:30 HRS BROUGHT WRONG STYLE CONTROL TO REMEDY PROBLEM

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1
USA

Date: 04/24/2009
Report No: 117

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	87.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]
Current Formation:	S MEMBER@13,482.0			**Lithology:**			
Current Ops:	POOH FOR ABANDONMENT PLUG # 2						
24-Hr Summary:	TIH F/ 11025' TO 11698',PUMP CMT PLUG, WOC, ATTEMPT TAG CMT, PUMP BTTM PLUG AGAIN, WOC,VERIFY CMT AT 11304'						
24-Hr Forecast:	POOH TO 9 5/8" SHOE, PUMP HIGH VIS PILL, PUMP CMT PLUG # 1A, DISPLACE TO 10.7 MW, POOH TO CUT 9 5/8 CSG						

CASING/WELL CONTROL	
Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Str Wt Up/Dn:	/	**Pump Rate:**	0.0	**Conn:**		
Str Wt Rot:		**Pump Press:**	0.0	**Trip:**		
Torq Off Btm:				**Backgr:**		
Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	30
Total on Site:	31

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	**MBT:**	25.0 lbm/bbl
Sample From:	PIT	**pH:**	10.2
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 1.0
Density @ Temp:	9.75 / 120	**Chlorides:**	750
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	54.00	**CaCl2:**	
PV / YP:	20 / 14	**Clom:**	
Gels 10s/10m/30m:	7 / 17 / 21	**Lime:**	
API WL:	9.00	**ES:**	
HTHP WL:	17.90	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	8.10 / 8.10	**Carbonate:**	
Oil / Water:	1.9 / 90.0	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	0.0 / 10,204.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	5.50 / 50.36		

VG Meter: 4@3 / 5@6 / 19@100 / 28@200 / 34@300 / 54@600

Comments: PUMPED FIRST PLUG. PULLED BACK 6 STANDS, CIRCULATED, AND WOC. TIH TO TAG AND NO PLUG WAS SEEN. SPOTTED 5 BBLE HIGH VIS PILL ON BOTTOM AND PUMPED ANOTHER

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
FIBER-SEAL	40 LBS/SK	5.00
MICA FINE	50 LB/SX	9.00
NEW BAR	100 LB/SX	520.00
NEW GEL HY	50 LBS/SK	6.00
NEW SWELL	50 LBS/SK	1.00
PHENOSEAL	50 LBS/SK	5.00
SODA ASH	50 LBS/SK	12.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/24/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 117

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	61ABND	TRIP	CMT	P	CONTINUE TIH F/ 11025' TO 11410', NO PROBLEMS PRECATIONARY WASH 288' TO TOF AT 11698'
1:00	2:30	1.50	61ABND	CIRC	CNDHOL	P	CIRCULATE WELL TO BALANCE WHILE PJSM & RU HES HARD LINE, MUD LINE FOR DISPLACEMENT & CLEAN UP LINE 545 GPM @ 1930 PSI PU 345K SO 307K
2:30	3:00	0.50	61ABND	SRFEQ	RIGUP	P	LD 1 SINGLE DP, TO HIGH F/ CMT HEAD RU HES CIRCULATING SWEDGE, & HARD LINE HAND OVER TO HALIBURTON
3:00	4:00	1.00	61ABND	CMT	PLUG	P	PJSM TEST LINES TO 4300 PSI PUMP BALANCED ABADONMENT PLUG # 1 @ 11676' 20 BBL WATER SPACER 110 SACKS 15.8 PPG, 1.52 YLD, 29.8 BBL PLUGCHEM SLURRY 7.7 WATER SPACER CLEAN UP TO PIT DISPLACE CEMENT TO ESTIMATED TOC AT 11359' W/ 191.7 BBL 9.7 PPG ACTIVE MUD @ 5-6 BPM UTILIZING HES
4:00	4:30	0.50	61ABND	TRIP	CMT	P	POOH 10 DRY STANDS TO 10730', PULL FIRST 5 STDS SLOW PU 325K CIP AT 04:30 HOURS
4:30	5:00	0.50	61ABND	CIRC	CNDFLD	P	CIRCULATE & ROTATE RESIDUE CEMENT CLEAR 545 GPM 1743 PSI 20 RPM 8K TORQUE 300K RW
5:00	10:00	5.00	61ABND	CMT	WOC	P	PULL 6 STANDS INTO SHOE AT 10,178' CIRCULATE AT REDUCED RATE WOC
10:00	12:30	2.50	61ABND	TRIP	CMT	P	TIH TO TAG PLUG NO PLUG.
12:30	14:30	2.00	61ABND	CIRC	CNDFLD	P	CIRCULATED BOTTOMS UP @ 11710'. MONITOR SHAKERS FOR CEMENT. NO CEMENT RETURNS NO CONTAMINATED MUD. SPOT 5 BBL HIGH VIS SWEEP. PULLED UP TO 11676' NOTIFIED: AL McKee BLM VIA TELEPHONE OF PLAN FORWARD FOR SECOND BOTTOM PLUG.
14:30	16:00	1.50	61ABND	CMT	PLUG	P	PJSM TEST LINES TO 4000 PSI PUMP BALANCED ABADONMENT PLUG # 1A @ 11676' 20 BBL WATER SPACER 150 SACKS 15.8 PPG, 1.15 YLD, 30.7 BBL PLUGCHEM SLURRY 7.7 WATER SPACER CLEAN UP TO PIT DISPLACE CEMENT TO ESTIMATED TOC AT 11241' W/ 181.5 BBL 9.7 PPG ACTIVE MUD @ 5-6 BPM UTILIZING HES
16:00	16:30	0.50	61ABND	TRIP	CMT	P	POOH 7 STANDS TO 10993' PULLED FIRST 5 STANDS SLOW. P/U 325K CIP @ 1630
16:30	17:00	0.50	61ABND	CIRC	CNDFLD	P	CIRCULATED PIPE CLEAN 402 GPM 1130 PSI
17:00	23:00	6.00	61ABND	CMT	WOC	P	PULL 9 STANDS INTO TO SHOE AT 10178' CIRCULATED AT REDUCED RATE WOC.
23:00	0:00	1.00	61ABND	CMT	WOC	P	TIH & TAG HARD CEMENT AT II304' TAGGED WITH 11 K SLACK OFF WT. 84 GPM @ 215 SPP 394' CEMENT ON TOF 11698' TO 11304'
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	198.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	198.00	CLEAR 40 DEGREES

Incident Comments:
No incidents reported last 24 hours.

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event:	EXPL DRILLING	BURRVILLE FEDERAL 3-1		**Date:**	04/24/2009
Prim. Reason:	ORIG DRILL DIR	USA		**Report No:**	117

Other Remarks: RIG FUEL ON HAND 14204 GALS. 1484 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 21

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

RIG DYNO-MATIC ELECTRIC ACCUATING CONTROL FULLY REPAIRED

T25S R01WS-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/25/2009

Report No: 118

Wellbore:	00	Rig:	NABORS 797	Ref Datum:	ORIGINAL KB @7,640.00ft	DFS:	88.66
Today's MD:	13,992.0 ft	Progress:	0.0 ft	Ground Elev:	7,605.00 ft	Daily Cost:	[redacted]
Prev MD:	13,992.0 ft	Rot Hrs Today:		AFE MD/Days:	16,130.0 / 110.0 days	Cum Cost:	[redacted]
PBMD:		Avg ROP Today:	0.0 ft/hr	AFE Number:	94370116	AFE Cost:	[redacted]
Current Formation:	S MEMBER@13,482.0			Lithology:			
Current Ops:	RIGGING UP 9 5/8" CASING SPEAR						
24-Hr Summary:	POH TO 11454',PUMP CMT PLUG #2,POH TO 9029',DISP MUD,POH,PULL WR,C.O. RAMS,TEST,PULL PACKOFF,SPEAR CSG						
24-Hr Forecast:	FREEPOINT 9 5/8" CSG, CUT CSG, CIRC 9 5/8" ANNULUS, PULL CSG						

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 10,217ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:		
Next Casing:	5.500in @ 16,000ft	Str Wt Rot:		Pump Press:	0.0	Trip:		
Last BOP Press Test:	03/29/2009	Torq Off Btm:				Backgr:		
Form Test/EMW:	LOT / 12.93 ppg	Torq On Btm:						

PERSONNEL	
Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	24
Total on Site:	25

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	MBT:	25.0 lbm/bbl
Sample From:	PIT	pH:	10.2
Mud Type:	FRESH WATER POLYMER W	Pm / Pom:	
Time / MD:	0:01 / 13,992.0	Pf / Mf:	0.4 / 1.0
Density @ Temp:	10.70 / 72	Chlorides:	750
Rheology Temp:	120	Ca+ / K+:	/
Viscosity:	54.00	CaCl2:	
PV / YP:	21 / 14	Clom:	
Gels 10s/10m/30m:	8 / 18 / 22	Lime:	
API WL:	9.10	ES:	
HTHP WL:	17.90	ECD:	
Cake API / HTHP:	2.0 / 2.0	n / K:	/
Solids / Sol Corr:	11.60 / 11.60	Carbonate:	
Oil / Water:	1.9 / 86.5	Bicarbonate:	
Sand:	0.05	Form Loss:	0.0 / 10,204.0
Water Added:		Fluid Disch:	/
Oil Added:			
LGS:	5.40 / 49.30		

VG Meter: 4@3 / 5@6 / 19@100 / 29@200 / 35@300 / 56@600

Comments: tooh TO 10454 AND SPOTTED HIGH VIS PILL. PUMPED NEXT PLUG AND PULLED BACK TO 9029. DISPLACED 9.7 LB MUD IN HOLE WITH 10. LB MUD AND TOOH.

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
BUSAN	40 LB/SX	2.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
NEW BAR	100 LB/SX	160.00
NEWPAC R	50 LB/SX	4.00
TAX	EACH	1.00

RECEIVED

APR 27 2009

DIV. OF OIL, GAS & MINING

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/25/2009
Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 118

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	61ABND	TRIP	CMT	P	POOH F/ 11304' TO 11,454'
1:00	1:30	0.50	61ABND	CIRC	CNDFLD	P	CIRC & SPOT 8 BBL HIGH VIS PILL F/ 10350' TO 10454'
1:30	3:00	1.50	61ABND	CMT	PLUG	P	PJSM TEST LINES TO 4000 PSI PUMP BALANCED ABADONMENT PLUG # 2 @ 10358' 20 BBL WATER SPACER 90 SACKS 15.8 PPG, 1.52 YLD, 24.4 BBL PLUGCHEM SLURRY 7.6 WATER SPACER CLEAN UP TO PIT DISPLACE CEMENT TO ESTIMATED BOC AT 10358', TOC AT 10011' W/ 168.8 BBL 9.7 PPG ACTIVE MUD @ 5-6 BPM UTILIZING HES TOTAL PLUG HEIGHT 347' 206' IN 9 5/8" CSG 141' IN OPEN HOLE
3:00	3:30	0.50	61ABND	TRIP	CMT	P	POOH 7 STANDS TO 9687' PULLED FIRST 5 STANDS SLOW. P/U 335K CIP @ 03:30
3:30	4:30	1.00	61ABND	CIRC	CNDFLD	P	CIRCULATED PIPE CLEAN & LD HES HARDLINE *410 GPM 1148 PSI*
4:30	5:00	0.50	61ABND	TRIP	CMT	P	POOH TO 9029', RELEASE HALIBURTON CEMENTERS & EQUIPMENT
5:00	8:00	3.00	61ABND	CIRC	CHOVR	P	PREPARE TO DISP WELL F/ 9.7 PPG TO 10.7 PPG MUD
8:00	9:00	1.00	61ABND	CIRC	CHOVR	P	DISP WELL F/ 9.7 PPG LSND TO 10.7 PPG LSND MUD TOTAL DISPLACEMENT 575 BBLS
9:00	12:00	3.00	61ABND	TRIP	CMT	P	POOH
12:00	13:00	1.00	61ABND	BOP	CHRAMS	P	PULL WEAR BUSHING
13:00	16:00	3.00	61ABND	BOP	CHRAMS	P	OPEN TOP RAM DOORS PULLED 5" DRILL PIPE RAMS INSTALLED 9.625" CASING RAMS CLOSED DOORS.
16:00	19:00	3.00	61ABND	TRIP	PULD	P	UTILIZED MOUSE HOLE TO L/D 33 JOINTS DRILL PIPE. W/O IPS TESTER
19:00	21:30	2.50	61ABND	BOP	RUBOP	P	RU & TEST BOP STACK CAVITY TO 2000 PSI
21:30	23:30	2.00	61ABND	BOP	CHRAMS	P	OPEN 9 5/8" ANNULUS, 0 PRESSURE, RU FMC & PULL 9 5/8" X 13 3/8" PACKOFF, RD FMC
23:30	0:00	0.50	61ABND	SRFEQ	RIGUP	P	RU SLAUGH FISHING 9 5/8" CASING SPEAR
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	199.00	**Weather Comments:**
Environ Incident?	N	**Days since Last LTA:**	199.00	LIGHT SNOW 33 DEGREES

Incident Comments:
No incidents reported last 24 hours.

Other Remarks: RIG FUEL ON HAND 12720 GALS. 1484 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 14

24 HOUR MUD LOSS = 0
TOTAL INTERVAL LOSS = 120

FUNCTION ANNULAR & HCR
BOP DRILL NIGHT CREW 2:07 MINUTES TO STATIONS
NOTIFIED: AL McKee BLM VIA CELL PHONE LEFT MESSAGE BOTTOM PLUG VERIFICATION DEPTH AND PLAN FORWARD.

T25S R01W S-03 43-041-30059

CONFIDENTIAL

OXY USA

OPERATIONS PARTNER REPORT

BURRVILLE FEDERAL 3-1

USA

Date: 04/26/2009

Report No: 119

Wellbore:	00	**Rig:**	NABORS 797	**Ref Datum:**	ORIGINAL KB @7,640.00ft	**DFS:**	89.66
Today's MD:	13,992.0 ft	**Progress:**	0.0 ft	**Ground Elev:**	7,605.00 ft	**Daily Cost:**	[redacted]
Prev MD:	13,992.0 ft	**Rot Hrs Today:**		**AFE MD/Days:**	16,130.0 / 110.0 days	**Cum Cost:**	[redacted]
PBMD:		**Avg ROP Today:**	0.0 ft/hr	**AFE Number:**	94370116	**AFE Cost:**	[redacted]

Current Formation: S MEMBER@13,482.0 **Lithology:**

Current Ops: PULLING 9 5/8" CASING AT 4032'

24-Hr Summary: FREEPOINT CSG, TIH W/ CUTTER, CUT OFF CSG @ 4415', CIRC, POOH, RU TRS, PULL CUT CSG

24-Hr Forecast: CONT PULL CSG, TIH OPEN ENDED, PUMP CMT PLUG #3, TAG PLUG, LDDP, PUMP CP #4, LDDP

CASING/WELL CONTROL

Last Casing:	9.625in @ 10,217ft
Next Casing:	5.500in @ 16,000ft
Last BOP Press Test:	03/29/2009
Form Test/EMW:	LOT / 12.93 ppg

HOOKLOAD & TORQUE

Str Wt Up/Dn:	/
Str Wt Rot:	
Torq Off Btm:	
Torq On Btm:	

HYDRAULICS

Pump Rate:	0.0
Pump Press:	0.0

MUD GAS

	Avg	Max
Conn:		
Trip:		
Backgr:		

PERSONNEL

Supervisor 1:	MIKE ROANE
Supervisor 2:	LEONARD CLARK
Engineer:	RUSTY HANNA
Geologist:	KIRK SPARKMAN
Oxy Personnel:	1
Contractor Personnel:	31
Total on Site:	32

SURVEY DATA (LAST 6)

MD	Incl	Azi	TVD	N/-S	E/-W	VS	DLS	Build
13,992.0	4.96	100.31	13,832.72	1,073.0	293.4	1,041.4	0.00	0.00
13,894.0	4.96	100.31	13,735.09	1,074.5	285.1	1,043.7	0.19	0.18
13,798.0	4.79	99.55	13,639.44	1,076.0	277.0	1,045.9	0.86	0.86
13,702.0	3.96	99.39	13,543.72	1,077.2	269.8	1,047.7	0.19	0.18
13,600.0	3.78	98.40	13,441.95	1,078.2	263.0	1,049.4	0.64	-0.64
13,505.0	4.39	98.86	13,347.19	1,079.2	256.3	1,051.0	0.76	0.76

BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
									- -	- -

BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI

MUD DATA - NEWPARK-AVA

Engineer:	GRAHAM FLAGG / BRET GOA	**MBT:**	25.0 lbm/bbl
Sample From:	PIT	**pH:**	10.0
Mud Type:	FRESH WATER POLYMER W	**Pm / Pom:**	
Time / MD:	0:01 / 13,992.0	**Pf / Mf:**	0.4 / 1.0
Density @ Temp:	10.35 / 66	**Chlorides:**	800
Rheology Temp:	120	**Ca+ / K+:**	/
Viscosity:	47.00	**CaCl2:**	
PV / YP:	20 / 13	**Clom:**	
Gels 10s/10m/30m:	6 / 15 / 19	**Lime:**	
API WL:	9.10	**ES:**	
HTHP WL:	18.10	**ECD:**	
Cake API / HTHP:	2.0 / 2.0	**n / K:**	/
Solids / Sol Corr:	9.80 / 9.80	**Carbonate:**	
Oil / Water:	1.8 / 88.4	**Bicarbonate:**	
Sand:	0.05	**Form Loss:**	450.0 / 10,654.0
Water Added:		**Fluid Disch:**	/
Oil Added:			
LGS:	4.40 / 40.47		

VG Meter: 4@3 / 5@6 / 18@100 / 27@200 / 33@300 / 53@600

Comments: RIGGED UP SPEAR ASSEMBLY AND ENSURED CASING MOVEMENT. RIGGED UP FREE POINT AND RAN IN HOLE. FOUND FREE POINT AT 4510. TOOH WITH FREE POINT EQUIPMENT.

LAST OR CURRENT BHA

Component	OD	ID	Jts	Length

MUD PRODUCTS

Product	Units	Qty Used
DYNAFIBER M	25 LB/SX	15.00
ENG 24 HR #1	1	1.00
ENG 24 HR #2	1	1.00
MICA FINE	50 LB/SX	19.00
NEW BAR	100 LB/SX	130.00
NEW CARB C	50 LB/SX	21.00
NEW CARB M	50 LB/SX	12.00
NEW SWELL	50 LBS/SK	1.00
SAWDUST	2000 LBS/SK	7.00
SHRINK WRAP	EA.	18.00
TAX	EACH	1.00

OXY USA

DAILY OPERATIONS PARTNER REPORT

Event: EXPL DRILLING | BURRVILLE FEDERAL 3-1 | **Date:** 04/26/2009

Prim. Reason: ORIG DRILL DIR | USA | **Report No:** 119

OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	61ABND	SRFEQ	RIGUP	P	RU DLD PIPE RECOVERY FREEPOINT UNIT
1:00	1:30	0.50	61ABND	ABDN	PULCSG	P	ENGAGE 9 5/8" CASING SPEAR AT 37' RKB, PULL 500K AND INSURE CASING IS FREE AT HANGER
1:30	4:00	2.50	61ABND	LOG	WLWRK	PT	ATTEMPT FREEPOINT WITH DOG TYPE FREEPOINT TOOL, DOGS NOT ENGAGING PIPE PROPERLY ON FREEPOINT TOOL, UNABLE TO MEASURE STRETCH REQUIRED TO DETERMINE FREE PIPE, TOOL FAILED AT 6000'
4:00	6:00	2.00	61ABND	LOG	WLWRK	PT	POOH WITH WIRELINE, RELEASE CASING SPEAR, C.O. FREEPOINT TOOL.
6:00	7:30	1.50	61ABND	SRFEQ	RIGUP	PT	RE HANG TOP WIRE LINE SHEEVE. CUT OFF 200' E LINE RE HEAD E LINE. ENGAGE 9 5/8" CASING SPEAR.
7:30	9:00	1.50	61ABND	LOG	WLWRK	P	RIH WITH FREE POINT FREE POINT SET POINT @ 2565' 100% FREE @ 5000' 100 % STUCK @ 4000' 100 % FREE @ 4360' 50 % @ 4410' 40 % STUCK @ 4460' 5 % FREE
9:00	10:30	1.50	61ABND	SRFEQ	RIGUP	P	POOH WITH WIRELINE, RELEASE CASING SPEAR, R/D WIRE LINE EQUIPMENT.
10:30	11:00	0.50	61ABND	SRFEQ	RIGUP	P	P/U 5 9/16' CASING CUT OFF TOOL WITH 2.5" LEGS.
11:00	12:30	1.50	61ABND	ABDN	OTHER	P	RIH WITH DRILL PIPE AND CASING CUT OFF TOOL TO 4415'
12:30	13:00	0.50	61ABND	ABDN	OTHER	P	ROTATING WT. 220K 50 RPM 185 GPM @ 950 PSI CUT OFF CASING. MONITOR WELL FOR GAS AND H2S. WELLSTATIC.
13:00	15:00	2.00	61ABND	ABDN	OTHER	P	POOH L/D CUT OFF TOOL.
15:00	16:00	1.00	61ABND	ABDN	PULCSG	P	P/U 2 JOINTS HWDP, CASING SPEAR AND PACK OFF. SPEAR CASING P/U CLEAR BOPE STRING WT. 290K
16:00	18:00	2.00	61ABND	ABDN	OTHER	P	RECIPRICATED CASING ATTEMPTED TO ESTBLISH CIRCULATION PUMPED 30 BBL 18% LCM 10.6 PPG MUD FOLLOWED BY 165 BBL 10.5 PPG MUD. WELL STATIC WITH ANULUS FLUID AT GROUND LEVEL, WILL NOT CIRCULATE.
18:00	20:00	2.00	61ABND	SRFEQ	RIGUP	P	PJSM MIRU TRS CASING DOUBLE STACK TONGS PUMP ADDITIONAL 30 BBL 10.3 PPG MUD 243 GPM 70 PSI NO RETURNS ANULUS FULL
20:00	22:30	2.50	61ABND	SRFEQ	RIGUP	P	LD 2 JTS HWDP, CSG SPEAR & 9 5/8" CSG HANGER RD 5" HANDLING TOOLS
22:30	23:30	1.00	61ABND	SRFEQ	RIGUP	P	RU TRS LONG BAILS & 250T SIDEDOOR ELEVATORS RU LAYDOWN MACHINE
23:30	0:00	0.50	61ABND	ABDN	PULCSG	P	PJSM PULL & LD 9 5/8" CSG F/ 4410' TO 4032' PU 282K
Total Time		24.00					

Safety Incident?	N	**Days since Last RI:**	200.00	**Weather Comments:**	
Environ Incident?	N	**Days since Last LTA:**	200.00	COOL 27 DEGREES	

Incident Comments:
No incidents reported last 24 hours.

Other Remarks:

RIG FUEL ON HAND 11448 GALS. 1272 USED 0 GALS. RECEIVED

NO ACCIDENTS OR INCIDENTS REPORTED

BOTH CREWS FULL
THIRD PARTY PERSONAL SIGNED IN = 16

24 HOUR MUD LOSS = 450
TOTAL INTERVAL LOSS = 570

FUNCTION BLIND RAMS
NOTIFIED: AL McKee BLM VIA CELL PHONE LEFT MESSAGE,CASING CUT OFF POINT AND PLAN FORWARD FOR PLUG DEPTH AND VERIFIACATION (TIME LINE)

P&A

CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (Highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-81360

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☑ OTHER

7. UNIT or CA AGREEMENT NAME: N/A

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Burrville Federal 3-1

2. NAME OF OPERATOR: OXY USA Inc.

9. API NUMBER: 4304130059

3. ADDRESS OF OPERATOR: P.O. Box 27757 CITY Houston STATE TX ZIP 77227

PHONE NUMBER: (970) 263-3629

10 FIELD AND POOL, OR WILDCAT: Exploratory

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: ~~2325~~ 2330' FNL, ~~2235~~ 2233' FEL, being in the SW4NE4
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1155' FNL, 2225' FEL, NW4NE4
AT TOTAL DEPTH: ~~1455~~ 1257' FNL, ~~2225~~ 1942' FEL, NW4NE4

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 3 25S 1W SLBM

12. COUNTY: Sevier

13. STATE: UTAH

per HSM review

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:	17. ELEVATIONS (DF, RKB, RT, GL):
1/27/2009	4/11/2009	4/28/09 ABANDONED ☑ READY TO PRODUCE ☐	7640' (KB), 7605' (GL)

18. TOTAL DEPTH:	19. PLUG BACK T.D.:	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET:
MD 13,992 TVD 13,833	MD 0 TVD 0		MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Resistivity log,gamma ray,spectral density,true resistivity,dual spaced neutron,borehole sonic,focused, compensated spectral

23.
WAS WELL CORED? NO ☐ YES ☐ (Submit analysis)
WAS DST RUN? NO ☐ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
36"	30" G	196	35	65					0
26"	20"		35	1,135		Premium 644			0
17.5"	13.37" J-55	68	35	2,885		H 1,120	465	Surface	0
12.25"	9.625" HCL	53.5	35	10,217		HCL 346	95	8800	4415

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A								

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) N/A				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
N/A	

29. ENCLOSED ATTACHMENTS:
☑ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☑ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: P & A

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MAY 18 2009
DIV. OF OIL, GAS & MINING

(5/2000) (CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Arapien Shale	7,485
Top Twin Creek	9,323
Top Navajo	9,520
Top Chinle	11,428
Top Moenkopi	11,938
Top Sinbad Member	13,482

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rusty Hanna TITLE Drilling Engineer

SIGNATURE Rusty Hanna DATE 5/13/09

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
UTU-81360

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Burrville Federal 3-1

2. Name of Operator
OXY USA Inc.

9. API Well No.
43-041-30059

3a. Address
P.O. Box 27757
Houston, TX 77227-7757

3b. Phone No. *(include area code)*
(970) 263-3613

10. Field and Pool or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Section 3, Township 25 South, Range 1 West, SLB&M
At surface: 2325' FNL, 2235' FEL, being in SW4NE4 At prod. zone: 1155' FNL, 2225' FEL, being in NW4NE4

11. Country or Parish, State
Sevier, UT (041)

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. (Oxy) is providing subsequent report of plug and abandonment operations on the Burrville Federal 3-1 well. Oxy set a total of 5 plugs at this location on ~~May~~ April 28, 2009. The method of plug placement was using balanced cement plugs. The plugs were set at depths of 11,700 - 11,500', 10,317-10,117', 4,515-4,315', 2,985-2,785', and from 140' below ground to the surface. The 53.5 lb, 9 5/8" casing was mechanically cut at a depth of 4,415' and removed. 9.2 lb/gallon mud was left in the casing from a depth of 4,415' down to TD. Verbal approval for the plug and abandonment of the Burrville Federal 3-1 was received by Al McKee with the BLM on April 21, 2009 and the BLM witnessed both the 11,700-11,500' and 4,515 -4,315' plugs set. Oxy will comply with all reclamation requirements and notify the BLM when the site is ready for final inspection.

Oxy requests that the BLM and Utah Division of Oil, Gas and Mining consider the provided information and logs confindential.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Rusty Hanna

Title Drilling Engineer

Signature R Hanna

Date 5/11/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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MAY 18 2009
DIV. OF OIL, GAS & MINING

Burrville Federal 3-1

GENERAL DATA

Date Spudded	01/27/2009	G.L. Elevation	7605'	Tbg Vol to Perfs			
Date Suspended	04/29/2009	K.B. to Mat	35'	Ann Vol			
Date Completed		K.B. Elevation	7640'	Completion Brine			
Date Recompleted		K.O.P.	3600'	Perf. Footage (gross)			
Drilling Fluid	WBM	Max. Dev.	23 deg @ 6864' MD	Perf. Footage (net)			
Weight of Mud	9.2 ppg	Min. I.D.		Ref. Log			
Weighting Material	Barite	Max. Dogleg	4.4 deg @ 12934' MD	Created By	R. Hanna		

FIELD DATA

Field	:	Sevier Co. Utah
Well N°	:	3-1
Slot N°	:	
Well Type	:	Exploration
Reservoir	:	
API #	:	430413005900
Driller's TD	:	13992'

WELLHEAD DATA

ITEM	BORE (in)	FLANGE(in) & RATING(psi)

CASING SCHEME

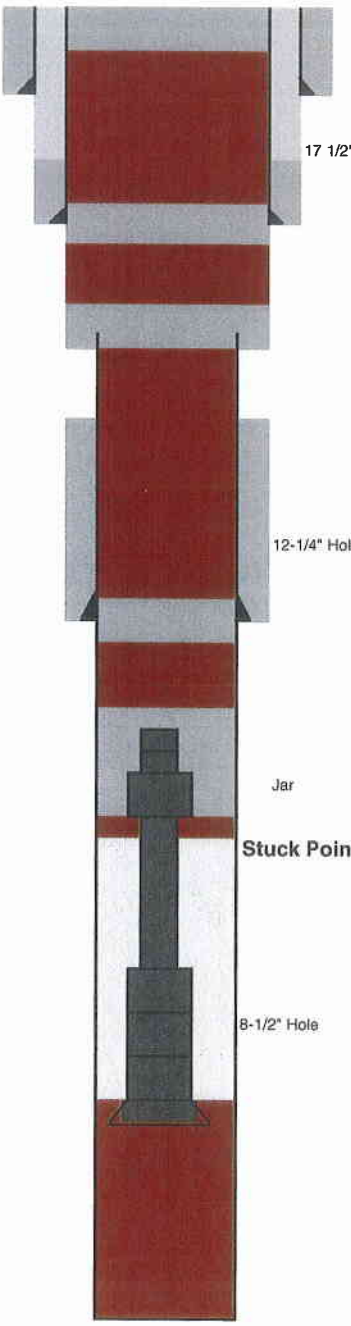
SIZE (in)	WT (lb/ft)	GRADE	Connection
13-3/8"	68	J55	BTC
9-5/8"	53.5	HCL-80	BTC

SHOE DEPTH

MD	TVD
2885'	2885'
10217'	10062'

TOC

MD
Surface
8800'



DEPTH MD (ft)	DEPTH TVD (ft)		Cement Plugs	OD (in)	ID (in)
			Surface - 140' MD		
1135'	1135'	20" Conductor TOC (Surface)		20.00"	19.69"
2885'	2885'	13-3/8" casing shoe 68# J-55 BTC TOC (Surface)	**13-3/8" Casing Shoe** 2785' - 2985' MD	13.375"	12.415"
4415'	4412'	9-5/8" casing cut point	**9-5/8" Casing cut point** 4315' - 4515' MD *BLM Witnessed		
9100'	8945'	TOC 9100'			
10217'	10062'	9-5/8" casing shoe 53.5# HCL-80 BTC	**9-5/8" Casing Shoe** 10117' - 10317' MD	9.625"	8.535"
11997'	11842'		**Top of Fish** 11500' - 11700' MD *BLM Witnessed		
12770'	12613'	Bottom of fish (8-1/2" PDC bit)			
13992'	13833'	TD 8-1/2" Hole section			

Description of Fish left in hole:	Top of equipment in hole:
5" DP: 214'	11722
5" HWPD: 60.8'	11936'
Jar: 32.4'	11997'
5" HWDP (12x): 364.2'	12029'
6.5" DC's (8x): 245.7'	12393'
XO: 4.7'	12642'
NMDC: 30.5'	12647'
String Stab: 6.2'	12677'
MWD: 30.4'	12683'
XO: 3.1'	12714'
Mud Motor: 35.5'	12717'
XO: 3.1'	12752'
Rotary Steerable System: 13.4'	12756'
8-1/2" PDC bit: 1'	12769'

PERFORATION DATA

REMARKS / ADDITIONAL DETAIL

PREPARED: Rusty Hanna CHECKED: REVISION: DATE: 7-May-09

Schlumberger

6501 S. Fiddler's Green Circle, Suite 400
Greenwood Village, CO 80111
(303) 486-3200

SUB-SURFACE
SURVEY CERTIFICATION REPORT

Occidental (Company)		**April 29, 2009** (Date)
(Lease)	**Burrville Federal 3-1**	**Sevier Co., UT** (County/State)

Survey Depths	**1210**	to	**13894** ft
Type of Survey	**Measurements While Drilling (MWD)**		
Survey Depths	**13894**		**13992** ft
Type of Survey	**Projection to Bit**		
Survey Depths		to	ft
Type of Survey			
Site Supervisor	**Russel Palmer**		

The data submitted in this report conforms to the standards and procedures as set forth by Schlumberger. This report represents a true and correct directional wellbore survey based on original survey data obtained at the well site.

Ed Moore
DEC Engineer

This document has been subscribed and affirmed, or sworn before me in the county of Arapahoe in the state of Colorado, this 4th day of May, 2009.

Christine J. Wilson My commision expires: 12-19-09

CHRISTINE J. WILSON
NOTARY PUBLIC
STATE OF COLORADO

MY COMMISSION EXPIRES 12/19/2009

Burrville Federal #3-1 MWD 0' to 13992' Final Surveys

Report Date:	April 29, 2009	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	2.980°
Field:	UT, Sevier County (NAD 27 Ut State Planes CZ US Feet)	Vertical Section Origin:	N 0.000 ft, E 0.000 ft
Structure / Slot:	Burrville Federal #3-1 / Burrville Federal #3-1	TVD Reference Datum:	RKB
Well:	Burrville Federal #3-1	TVD Reference Elevation:	7640.1 ft relative to MSL
Borehole:	Original Hole	Sea Bed / Ground Level Elevation:	7605.500 ft relative to MSL
UWI/API#:		Magnetic Declination:	12.097°
Survey Name / Date:	Burrville Federal #3-1 MWD 0' to 13992' Final Surveys / April 14, 2009	Total Field Strength:	51424.800 nT
Tort / AHD / DDI / ERD ratio:	117.977° / 1275.78 ft / 5.183 / 0.092	Magnetic Dip:	64.368°
Grid Coordinate System:	NAD27 Utah State Planes, Central Zone, US Feet	Declination Date:	April 14, 2009
Location Lat/Long:	N 38 39 55.256, W 111 53 36.318	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 121182.470 ftUS, E 1887647.820 ftUS	North Reference:	True North
Grid Convergence Angle:	-0.25201744°	Total Corr Mag North -> True North:	+12.097°
Grid Scale Factor:	1.00010519	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121182.47	1887647.82	N 38 39 55.256	W 111 53 36.318
Begin Gyro	135.00	0.14	200.49	135.00	-0.16	-0.15	-0.06	0.10	121182.32	1887647.76	N 38 39 55.255	W 111 53 36.318
	235.00	0.22	257.77	235.00	-0.32	-0.31	-0.29	0.19	121182.16	1887647.53	N 38 39 55.253	W 111 53 36.321
	335.00	0.19	252.90	335.00	-0.43	-0.40	-0.63	0.03	121182.07	1887647.18	N 38 39 55.252	W 111 53 36.326
	435.00	0.15	273.11	435.00	-0.49	-0.44	-0.92	0.07	121182.03	1887646.89	N 38 39 55.252	W 111 53 36.329
	535.00	0.17	330.83	535.00	-0.36	-0.30	-1.13	0.16	121182.17	1887646.69	N 38 39 55.253	W 111 53 36.332
	635.00	0.04	115.96	635.00	-0.25	-0.19	-1.17	0.20	121182.29	1887646.65	N 38 39 55.254	W 111 53 36.332
	735.00	0.09	107.11	735.00	-0.28	-0.23	-1.06	0.05	121182.25	1887646.76	N 38 39 55.254	W 111 53 36.331
	835.00	0.28	117.05	835.00	-0.40	-0.36	-0.77	0.19	121182.11	1887647.05	N 38 39 55.253	W 111 53 36.327
	935.00	0.41	138.56	935.00	-0.76	-0.74	-0.31	0.18	121181.73	1887647.50	N 38 39 55.249	W 111 53 36.322
	1035.00	0.37	163.42	1034.99	-1.32	-1.32	0.02	0.17	121181.15	1887647.83	N 38 39 55.243	W 111 53 36.317
20" Csg	*1100.00*	*0.49*	*165.43*	*1099.99*	*-1.78*	*-1.79*	*0.15*	*0.19*	*121180.68*	*1887647.96*	*N 38 39 55.238*	*W 111 53 36.316*
End Gyro	1131.00	0.55	166.08	1130.99	-2.05	-2.06	0.21	0.19	121180.41	1887648.03	N 38 39 55.236	W 111 53 36.315
Begin SLB MWD Survey	1210.00	2.29	191.13	1209.96	-3.98	-3.98	0.00	2.29	121178.49	1887647.80	N 38 39 55.217	W 111 53 36.318
	1303.00	4.64	198.20	1302.79	-9.44	-9.38	-1.53	2.56	121173.10	1887646.25	N 38 39 55.163	W 111 53 36.337
	1399.00	2.98	201.63	1398.57	-15.56	-15.39	-3.67	1.74	121167.10	1887644.09	N 38 39 55.104	W 111 53 36.364
	1494.00	0.18	178.54	1493.53	-18.05	-17.83	-4.57	2.96	121164.66	1887643.17	N 38 39 55.080	W 111 53 36.375
	1590.00	0.09	357.40	1589.53	-18.12	-17.91	-4.57	0.28	121164.58	1887643.17	N 38 39 55.079	W 111 53 36.375
	1685.00	0.06	110.08	1684.53	-18.06	-17.85	-4.53	0.13	121164.64	1887643.21	N 38 39 55.080	W 111 53 36.375
	1779.00	0.06	257.87	1778.53	-18.09	-17.88	-4.53	0.12	121164.61	1887643.21	N 38 39 55.079	W 111 53 36.375
	1875.00	0.26	165.36	1874.53	-18.31	-18.10	-4.52	0.28	121164.39	1887643.22	N 38 39 55.077	W 111 53 36.375
	1970.00	0.06	266.10	1969.53	-18.52	-18.31	-4.52	0.29	121164.18	1887643.22	N 38 39 55.075	W 111 53 36.375
	2065.00	0.06	97.91	2064.53	-18.53	-18.32	-4.52	0.13	121164.17	1887643.22	N 38 39 55.075	W 111 53 36.375
	2161.00	0.04	351.30	2160.53	-18.50	-18.29	-4.48	0.08	121164.19	1887643.26	N 38 39 55.075	W 111 53 36.374
	2257.00	0.32	328.55	2256.52	-18.25	-18.03	-4.62	0.30	121164.46	1887643.12	N 38 39 55.078	W 111 53 36.376
	2351.00	0.49	299.14	2350.52	-17.85	-17.61	-5.11	0.28	121164.88	1887642.63	N 38 39 55.082	W 111 53 36.382
	2447.00	0.51	318.79	2446.52	-17.37	-17.09	-5.75	0.18	121165.40	1887642.00	N 38 39 55.087	W 111 53 36.390
	2542.00	0.70	287.52	2541.51	-16.92	-16.60	-6.58	0.39	121165.90	1887641.17	N 38 39 55.092	W 111 53 36.401
	2635.00	0.69	233.82	2634.51	-17.13	-16.76	-7.57	0.68	121165.74	1887640.17	N 38 39 55.090	W 111 53 36.413
	2729.00	0.63	144.71	2728.50	-17.89	-17.51	-7.73	0.99	121164.99	1887640.01	N 38 39 55.083	W 111 53 36.415
13 3/8" Csg	*2885.00*	*0.23*	*142.34*	*2884.50*	*-18.81*	*-18.47*	*-7.04*	*0.25*	*121164.03*	*1887640.69*	*N 38 39 55.074*	*W 111 53 36.406*
	2966.00	0.03	115.60	2965.50	-18.94	-18.60	-6.92	0.25	121163.89	1887640.81	N 38 39 55.072	W 111 53 36.405
	3061.00	0.01	292.45	3060.50	-18.95	-18.61	-6.91	0.04	121163.89	1887640.83	N 38 39 55.072	W 111 53 36.405
	3155.00	0.12	236.55	3154.50	-19.00	-18.66	-7.00	0.12	121163.84	1887640.74	N 38 39 55.072	W 111 53 36.406
	3251.00	0.12	184.82	3250.50	-19.16	-18.82	-7.09	0.11	121163.68	1887640.65	N 38 39 55.070	W 111 53 36.407
	3347.00	0.10	4.98	3346.50	-19.18	-18.84	-7.09	0.23	121163.66	1887640.64	N 38 39 55.070	W 111 53 36.407
	3442.00	0.04	101.22	3441.50	-19.10	-18.76	-7.05	0.12	121163.74	1887640.68	N 38 39 55.071	W 111 53 36.407
	3538.00	0.44	336.69	3537.50	-18.78	-18.43	-7.17	0.48	121164.07	1887640.57	N 38 39 55.074	W 111 53 36.408
	3633.00	1.29	351.02	3632.49	-17.40	-17.04	-7.48	0.92	121165.47	1887640.27	N 38 39 55.088	W 111 53 36.412
	3729.00	2.01	353.97	3728.45	-14.68	-14.29	-7.82	0.75	121168.21	1887639.93	N 38 39 55.115	W 111 53 36.416
	3824.00	2.95	357.44	3823.36	-10.60	-10.20	-8.11	1.00	121172.31	1887639.67	N 38 39 55.155	W 111 53 36.420
	3920.00	3.63	2.98	3919.20	-5.11	-4.69	-8.06	0.78	121177.81	1887639.74	N 38 39 55.210	W 111 53 36.419
	4016.00	4.27	6.73	4014.97	1.50	1.89	-7.48	0.72	121184.39	1887640.35	N 38 39 55.275	W 111 53 36.412
	4111.00	5.07	7.70	4109.65	9.21	9.56	-6.50	0.85	121192.06	1887641.36	N 38 39 55.351	W 111 53 36.400
	4204.00	6.08	8.46	4202.21	18.21	18.51	-5.23	1.09	121201.00	1887642.67	N 38 39 55.439	W 111 53 36.384
	4300.00	7.13	7.15	4297.57	29.21	29.45	-3.74	1.10	121211.94	1887644.21	N 38 39 55.547	W 111 53 36.365
	4395.00	7.97	5.42	4391.75	41.67	41.86	-2.38	0.92	121224.34	1887645.62	N 38 39 55.670	W 111 53 36.348
	4490.00	8.81	3.79	4485.73	55.53	55.67	-1.28	0.92	121238.15	1887646.78	N 38 39 55.806	W 111 53 36.334
	4586.00	9.33	3.14	4580.53	70.66	70.78	-0.37	0.55	121253.26	1887647.76	N 38 39 55.956	W 111 53 36.322
	4680.00	9.09	2.51	4673.32	85.71	85.80	0.37	0.28	121268.28	1887648.57	N 38 39 56.104	W 111 53 36.313
	4776.00	10.76	3.04	4767.88	102.25	102.33	1.18	1.74	121284.80	1887649.45	N 38 39 56.268	W 111 53 36.303
	4871.00	11.29	3.62	4861.13	120.42	120.47	2.24	0.57	121302.94	1887650.59	N 38 39 56.447	W 111 53 36.289
	4965.00	10.95	5.49	4953.36	138.54	138.54	3.67	0.53	121321.00	1887652.10	N 38 39 56.626	W 111 53 36.271

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
	5055.00	11.09	8.02	5041.70	155.70	155.62	5.70	0.56	121338.08	1887654.20	N 38 39 56.794	W 111 53 36.246
	5157.00	11.63	9.94	5141.70	175.68	175.46	8.84	0.65	121357.90	1887657.44	N 38 39 56.990	W 111 53 36.206
	5251.00	12.52	9.96	5233.62	195.20	194.82	12.24	0.95	121377.26	1887660.92	N 38 39 57.182	W 111 53 36.163
	5346.00	13.98	9.15	5326.09	216.83	216.30	15.85	1.55	121398.72	1887664.62	N 38 39 57.394	W 111 53 36.118
	5442.00	15.63	7.09	5418.90	241.26	240.58	19.29	1.80	121422.99	1887668.17	N 38 39 57.634	W 111 53 36.074
	5536.00	17.25	6.08	5509.06	267.81	267.01	22.33	1.75	121449.40	1887671.32	N 38 39 57.895	W 111 53 36.036
	5630.00	19.40	4.14	5598.28	297.34	296.44	24.93	2.38	121478.83	1887674.06	N 38 39 58.186	W 111 53 36.003
	5756.00	20.57	3.82	5716.69	340.39	339.40	27.92	0.93	121521.78	1887677.23	N 38 39 58.611	W 111 53 35.966
	5820.00	19.35	6.89	5776.85	362.21	361.15	29.94	2.51	121543.52	1887679.35	N 38 39 58.826	W 111 53 35.940
	5851.00	18.46	9.59	5806.18	372.21	371.08	31.37	4.02	121553.45	1887680.83	N 38 39 58.924	W 111 53 35.922
	5914.00	17.35	14.52	5866.13	391.33	390.01	35.39	2.98	121572.37	1887684.93	N 38 39 59.111	W 111 53 35.872
	6009.00	16.25	19.49	5957.08	417.95	416.26	43.37	1.90	121598.58	1887693.03	N 38 39 59.371	W 111 53 35.771
	6067.00	15.42	24.44	6012.88	432.91	430.93	49.27	2.73	121613.22	1887698.99	N 38 39 59.516	W 111 53 35.696
	6103.00	14.90	27.21	6047.63	441.58	439.40	53.37	2.48	121621.68	1887703.13	N 38 39 59.600	W 111 53 35.645
	6198.00	15.65	31.67	6139.27	463.96	461.17	65.68	1.47	121643.40	1887715.54	N 38 39 59.815	W 111 53 35.490
	6292.00	18.11	32.44	6229.22	487.81	484.30	80.18	2.63	121666.46	1887730.14	N 38 40 0.043	W 111 53 35.307
	6387.00	20.01	26.92	6319.01	515.53	511.26	95.46	2.75	121693.35	1887745.54	N 38 40 0.310	W 111 53 35.114
	6483.00	21.98	22.64	6408.64	547.46	542.49	109.81	2.60	121724.52	1887760.03	N 38 40 0.618	W 111 53 34.933
	6579.00	22.84	16.63	6497.40	582.49	576.93	122.06	2.55	121758.91	1887772.43	N 38 40 0.959	W 111 53 34.779
	6674.00	23.37	12.03	6584.79	619.02	613.02	131.27	1.98	121794.97	1887781.80	N 38 40 1.316	W 111 53 34.663
	6770.00	22.70	8.42	6673.14	656.26	649.97	137.95	1.63	121831.89	1887788.64	N 38 40 1.681	W 111 53 34.578
	6864.00	22.99	7.35	6759.76	692.62	686.12	142.95	0.54	121868.02	1887793.80	N 38 40 2.038	W 111 53 34.515
	6959.00	22.25	5.97	6847.46	729.08	722.41	147.20	0.96	121904.30	1887798.21	N 38 40 2.397	W 111 53 34.462
	7055.00	21.22	5.40	6936.63	764.59	757.78	150.72	1.10	121939.66	1887801.89	N 38 40 2.747	W 111 53 34.417
	7151.00	19.60	4.50	7026.60	798.05	791.13	153.62	1.72	121973.00	1887804.94	N 38 40 3.076	W 111 53 34.381
	7247.00	18.58	4.82	7117.32	829.43	822.43	156.17	1.07	122004.29	1887807.62	N 38 40 3.386	W 111 53 34.349
	7342.00	17.02	4.93	7207.77	858.46	851.36	158.64	1.64	122033.21	1887810.22	N 38 40 3.672	W 111 53 34.318
	7437.00	15.75	5.29	7298.91	885.24	878.05	161.02	1.34	122059.90	1887812.72	N 38 40 3.935	W 111 53 34.288
	7531.00	14.57	4.77	7389.64	909.80	902.54	163.18	1.26	122084.38	1887814.99	N 38 40 4.178	W 111 53 34.260
	7626.00	13.30	4.44	7481.84	932.67	925.34	165.02	1.34	122107.17	1887816.93	N 38 40 4.403	W 111 53 34.237
	7721.00	11.69	2.82	7574.59	953.22	945.85	166.34	1.73	122127.68	1887818.34	N 38 40 4.606	W 111 53 34.220
	7817.00	10.20	3.93	7668.84	971.44	964.05	167.40	1.57	122145.87	1887819.48	N 38 40 4.786	W 111 53 34.207
	7913.00	9.92	5.27	7763.36	988.21	980.76	168.74	0.38	122162.58	1887820.89	N 38 40 4.951	W 111 53 34.190
	8006.00	9.61	5.71	7855.01	1003.96	996.46	170.25	0.34	122178.28	1887822.47	N 38 40 5.106	W 111 53 34.171
	8101.00	8.73	5.27	7948.80	1019.09	1011.53	171.70	0.93	122193.34	1887823.99	N 38 40 5.255	W 111 53 34.153
	8197.00	7.66	3.99	8043.82	1032.77	1025.17	172.82	1.13	122206.97	1887825.16	N 38 40 5.390	W 111 53 34.139
	8292.00	6.43	3.07	8138.10	1044.42	1036.80	173.54	1.30	122218.60	1887825.94	N 38 40 5.505	W 111 53 34.130
	8387.00	5.30	1.45	8232.60	1054.12	1046.50	173.94	1.20	122228.30	1887826.38	N 38 40 5.600	W 111 53 34.125
	8482.00	4.16	2.95	8327.27	1061.95	1054.32	174.23	1.21	122236.13	1887826.70	N 38 40 5.678	W 111 53 34.121
	8578.00	3.32	3.03	8423.07	1068.22	1060.58	174.55	0.88	122242.38	1887827.05	N 38 40 5.740	W 111 53 34.117
	8673.00	2.02	1.36	8517.96	1072.64	1065.00	174.74	1.37	122246.80	1887827.26	N 38 40 5.783	W 111 53 34.115
	8769.00	0.91	0.29	8613.93	1075.09	1067.45	174.78	1.16	122249.25	1887827.31	N 38 40 5.808	W 111 53 34.114
	8862.07	0.13	341.61	8707.00	1075.93	1068.29	174.75	0.85	122250.09	1887827.29	N 38 40 5.816	W 111 53 34.114
	8959.00	0.54	90.97	8803.93	1076.05	1068.39	175.17	0.61	122250.19	1887827.71	N 38 40 5.817	W 111 53 34.109
	9055.00	1.10	92.39	8899.91	1076.07	1068.34	176.55	0.58	122250.13	1887829.08	N 38 40 5.816	W 111 53 34.092
	9150.00	0.73	82.95	8994.90	1076.19	1068.38	178.06	0.42	122250.16	1887830.59	N 38 40 5.817	W 111 53 34.073
	9245.00	0.04	267.20	9089.90	1076.29	1068.45	178.63	0.81	122250.23	1887831.16	N 38 40 5.818	W 111 53 34.066
	9341.00	0.10	41.60	9185.90	1076.35	1068.51	178.65	0.14	122250.30	1887831.18	N 38 40 5.818	W 111 53 34.065
	9438.00	0.09	287.12	9282.90	1076.44	1068.60	178.63	0.16	122250.38	1887831.17	N 38 40 5.819	W 111 53 34.066
	9532.00	0.09	299.29	9376.90	1076.49	1068.65	178.50	0.02	122250.44	1887831.03	N 38 40 5.820	W 111 53 34.067
	9628.00	0.33	0.27	9472.90	1076.80	1068.97	178.43	0.31	122250.75	1887830.97	N 38 40 5.823	W 111 53 34.068
	9733.00	1.32	353.66	9577.89	1078.29	1070.47	178.30	0.95	122252.26	1887830.85	N 38 40 5.838	W 111 53 34.070
	9828.00	1.20	358.46	9672.86	1080.37	1072.55	178.15	0.17	122254.34	1887830.71	N 38 40 5.858	W 111 53 34.072
	9924.00	2.10	6.06	9768.82	1083.12	1075.31	178.31	0.96	122257.09	1887830.88	N 38 40 5.885	W 111 53 34.070
	9997.00	1.83	0.99	9841.78	1085.62	1077.80	178.47	0.44	122259.59	1887831.05	N 38 40 5.910	W 111 53 34.068
	10092.00	1.16	337.21	9936.75	1088.01	1080.21	178.13	0.95	122261.99	1887830.71	N 38 40 5.934	W 111 53 34.072
	10187.00	0.06	188.73	10031.74	1088.82	1081.04	177.75	1.28	122262.83	1887830.34	N 38 40 5.942	W 111 53 34.077
9 7/8" Csg	*10217.00*	*0.04*	*171.08*	*10061.74*	*1088.80*	*1081.02*	*177.74*	*0.09*	*122262.81*	*1887830.34*	*N 38 40 5.942*	*W 111 53 34.077*
	10266.00	0.03	89.06	10110.74	1088.78	1081.00	177.76	0.09	122262.79	1887830.35	N 38 40 5.942	W 111 53 34.076
	10361.00	0.37	36.48	10205.74	1089.04	1081.25	177.97	0.37	122263.04	1887830.56	N 38 40 5.944	W 111 53 34.074
	10455.00	0.06	166.17	10299.74	1089.25	1081.45	178.16	0.44	122263.23	1887830.75	N 38 40 5.946	W 111 53 34.071
	10550.00	0.06	294.26	10394.74	1089.22	1081.42	178.13	0.11	122263.21	1887830.72	N 38 40 5.946	W 111 53 34.072
	10647.00	0.09	357.56	10491.74	1089.31	1081.52	178.08	0.09	122263.30	1887830.67	N 38 40 5.947	W 111 53 34.072
	10743.00	0.06	331.54	10587.74	1089.43	1081.64	178.05	0.05	122263.42	1887830.64	N 38 40 5.948	W 111 53 34.073
	10838.00	0.06	15.36	10682.74	1089.52	1081.73	178.04	0.05	122263.52	1887830.63	N 38 40 5.949	W 111 53 34.073
	10933.00	0.13	75.15	10777.74	1089.60	1081.80	178.16	0.12	122263.59	1887830.75	N 38 40 5.950	W 111 53 34.071
	11027.00	0.75	73.51	10871.74	1089.84	1082.00	178.85	0.66	122263.79	1887831.45	N 38 40 5.952	W 111 53 34.063
	11121.00	0.20	25.85	10965.73	1090.20	1082.33	179.51	0.67	122264.11	1887832.11	N 38 40 5.955	W 111 53 34.054
	11215.00	0.04	111.77	11059.73	1090.34	1082.46	179.61	0.21	122264.24	1887832.21	N 38 40 5.956	W 111 53 34.053
	11308.00	0.06	64.86	11152.73	1090.35	1082.47	179.69	0.05	122264.25	1887832.29	N 38 40 5.956	W 111 53 34.052
	11404.00	0.04	357.72	11248.73	1090.41	1082.53	179.73	0.06	122264.31	1887832.33	N 38 40 5.957	W 111 53 34.052
	11500.00	0.06	242.11	11344.73	1090.41	1082.54	179.69	0.09	122264.32	1887832.28	N 38 40 5.957	W 111 53 34.052

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
	11595.00	0.14	259.72	11439.73	1090.36	1082.49	179.53	0.09	122264.27	1887832.13	N 38 40 5.956	W 111 53 34.054
	11690.00	0.84	47.58	11534.73	1090.83	1082.94	179.93	1.01	122264.72	1887832.53	N 38 40 5.961	W 111 53 34.049
	11786.00	1.55	47.18	11630.71	1092.26	1084.30	181.40	0.74	122266.07	1887834.01	N 38 40 5.974	W 111 53 34.031
	11880.00	1.14	76.88	11724.68	1093.43	1085.37	183.24	0.85	122267.14	1887835.85	N 38 40 5.985	W 111 53 34.007
	11975.00	0.62	125.10	11819.67	1093.42	1085.29	184.58	0.91	122267.05	1887837.19	N 38 40 5.984	W 111 53 33.990
	12071.00	0.77	119.97	11915.67	1092.85	1084.67	185.57	0.17	122266.43	1887838.18	N 38 40 5.978	W 111 53 33.978
	12167.00	1.89	105.87	12011.64	1092.21	1083.92	187.65	1.21	122265.66	1887840.25	N 38 40 5.970	W 111 53 33.952
	12262.00	2.44	94.42	12106.57	1091.81	1083.33	191.17	0.73	122265.06	1887843.77	N 38 40 5.965	W 111 53 33.907
	12357.00	2.49	87.38	12201.48	1091.96	1083.27	195.25	0.32	122264.98	1887847.85	N 38 40 5.964	W 111 53 33.856
	12449.00	3.40	85.10	12293.36	1092.53	1083.60	199.96	1.00	122265.29	1887852.57	N 38 40 5.967	W 111 53 33.797
	12549.00	4.18	88.57	12393.14	1093.21	1083.94	206.56	0.81	122265.60	1887859.17	N 38 40 5.971	W 111 53 33.713
	12646.00	4.51	90.56	12489.86	1093.65	1083.99	213.91	0.37	122265.62	1887866.52	N 38 40 5.971	W 111 53 33.621
	12741.00	5.45	93.40	12584.50	1093.77	1083.69	222.15	1.02	122265.28	1887874.76	N 38 40 5.968	W 111 53 33.517
	12838.00	5.72	89.27	12681.04	1094.05	1083.48	231.58	0.50	122265.03	1887884.19	N 38 40 5.966	W 111 53 33.398
	12934.00	2.08	126.03	12776.82	1093.41	1082.51	237.77	4.42	122264.04	1887890.38	N 38 40 5.957	W 111 53 33.320
	13030.00	0.12	57.79	12872.80	1092.52	1081.54	239.27	2.12	122263.06	1887891.87	N 38 40 5.947	W 111 53 33.301
	13126.00	0.18	108.07	12968.79	1092.54	1081.55	239.50	0.14	122263.06	1887892.10	N 38 40 5.947	W 111 53 33.298
	13222.00	1.64	101.10	13064.78	1092.30	1081.24	240.99	1.52	122262.75	1887893.59	N 38 40 5.944	W 111 53 33.279
	13320.00	1.67	99.66	13162.74	1091.94	1080.73	243.77	0.05	122262.23	1887896.37	N 38 40 5.939	W 111 53 33.244
	13414.00	3.69	98.25	13256.63	1091.50	1080.06	248.12	2.15	122261.54	1887900.71	N 38 40 5.932	W 111 53 33.189
	13505.00	4.39	99.09	13347.40	1090.86	1079.09	254.45	0.77	122260.54	1887907.04	N 38 40 5.923	W 111 53 33.110
	13604.00	3.78	98.79	13446.15	1090.13	1077.99	261.42	0.62	122259.42	1887914.01	N 38 40 5.912	W 111 53 33.022
	13702.00	3.95	99.75	13543.93	1089.40	1076.93	267.94	0.19	122258.32	1887920.52	N 38 40 5.901	W 111 53 32.940
	13798.00	4.78	99.89	13639.65	1088.53	1075.68	275.14	0.86	122257.04	1887927.72	N 38 40 5.889	W 111 53 32.849
Last SLB MWD Survey	13894.00	4.95	100.70	13735.30	1087.49	1074.23	283.15	0.19	122255.55	1887935.72	N 38 40 5.875	W 111 53 32.748
Projection to TD	13992.00	4.95	100.70	13832.94	1086.36	1072.66	291.46	0.00	122253.94	1887944.02	N 38 40 5.859	W 111 53 32.643

Survey Type: Definitive Survey

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog: MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	34.60	Act-Stns	SLB_NSG+MSHOT-Depth Only	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
34.60	1131.00	Act-Stns	SLB_NSG+MSHOT	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
1131.00	2729.00	Act-Stns	SLB_MWD-STD	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
2729.00	3347.00	Act-Stns	SLB_MWD-INC_ONLY	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
3347.00	5851.00	Act-Stns	SLB_MWD+DMAG	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
5851.00	6103.00	Act-Stns	SLB_MWD-STD	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
6103.00	9055.00	Act-Stns	SLB_MWD+DMAG	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
9055.00	12741.00	Act-Stns	SLB_MWD-STD	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
12741.00	13894.00	Act-Stns	SLB_MWD+DMAG	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys
13894.00	13992.00	Act-Stns	SLB_BLIND+TREND	Original Hole -> Burrville Federal #3-1 MWD 0' to 13992' Final Surveys

**Italicized stations are NOT used in position calculations.*

OXY USA

PLUG Cementing Report

Well:	BURRVILLE FEDERAL 3-1	Event Name:	EXPL DRILLING	Report Date:	4/24/2009
Project:	UTAH	Prim. Reason:	ORIG DRILL DIR	Report No.:	3
Site:	BURRVILLE	Start Date:	10/9/2008	Wellbore:	00
Active Datum:	ORIGINAL KB @7,640.00ft	End Date:			

General Job Information

Contractor:	HALLIBURTON ENERGY SERVICES, INC.	**Cemented Assembly:**		Plug Type:	ABANDONMENT
WOC Time:		**Assembly Size:**		Actual TOC MD:	0.0 (ft)
N2 Used:	N	**Assembly Btm MD:**		TOC Locate Method:	
CO2 Used:	N	**Assembly Set Date:**		Total Slurry in Well:	178.8 (bbl)
Static BHT:	160.0 (°F)	**Hole Size:**		Excess Slurry Volume:	0.0 (bbl)
Returns:	FULL	Volume Lost:	0.0 (bbl)	Est Cmt Vol Returns to Surf:	0.0 (bbl)

Stage 1 - ABANDONMENT PLUG

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:	1.50 (hr)	Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:	450.0 (gpm)	Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:	1,930.0 (psi)	Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

TAIL CEMENT

Pumping Start:	03:00	Slurry Type:	CEMENT	Total Slurry Volume:	29.8 (bbl)	Slurry Top MD:	11,304.0 (ft)
Pumping End:	03:30	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	11,698.0 (ft)
Rate:	5.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	16.2 (bbl)
Foam Job:		Yield:	1.5200 (ft3/sk94)	Mix Water Ratio:	6.190 (gal/sk94)	Actual Sacks Used:	110
				Mix Method:			

Stage 2 - ABANDONMENT PLUG

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:	0.50 (hr)	Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:	450.0 (gpm)	Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:	1,930.0 (psi)	Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

TAIL CEMENT

Pumping Start:	15:10	Slurry Type:	CEMENT	Total Slurry Volume:	29.8 (bbl)	Slurry Top MD:	11,304.0 (ft)
Pumping End:	22:37	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	11,698.0 (ft)
Rate:	5.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	16.2 (bbl)
Foam Job:		Yield:	1.5200 (ft3/sk94)	Mix Water Ratio:	6.190 (gal/sk94)	Actual Sacks Used:	110
				Mix Method:			

Stage 3 - ABANDONMENT PLUG

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:	1.00 (hr)	Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:	450.0 (gpm)	Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:	1,380.0 (psi)	Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

TAIL CEMENT

Pumping Start:	03:00	Slurry Type:	CEMENT	Total Slurry Volume:	24.4 (bbl)	Slurry Top MD:	10,011.0 (ft)
Pumping End:	03:30	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	10,358.0 (ft)
Rate:	5.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	13.3 (bbl)
Foam Job:		Yield:	1.5200 (ft3/sk94)	Mix Water Ratio:	6.190 (gal/sk94)	Actual Sacks Used:	90
				Mix Method:			

Stage 4 - ABANDONMENT PLUG

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:	0.50 (hr)	Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:	450.0 (gpm)	Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:	750.0 (psi)	Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

TAIL CEMENT

Pumping Start:	16:00	Slurry Type:	CEMENT	Total Slurry Volume:	45.1 (bbl)	Slurry Top MD:	4,511.0 (ft)
Pumping End:	16:30	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	3,790.0 (ft)
Rate:	5.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	26.1 (bbl)
Foam Job:		Yield:	1.1500 (ft3/sk94)	Mix Water Ratio:	4.980 (gal/sk94)	Actual Sacks Used:	220
				Mix Method:			

Stage 5 - ABANDONMENT PLUG

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:	0.50 (hr)	Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:	450.0 (gpm)	Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:	283.0 (psi)	Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

OXY USA

PLUG Cementing Report

Well:	BURRVILLE FEDERAL 3-1	Event Name:	EXPL DRILLING	Report Date:	4/24/2009
Project:	UTAH	Prim. Reason:	ORIG DRILL DIR	Report No.:	3
Site:	BURRVILLE	Start Date:	10/9/2008	Wellbore:	00
Active Datum:	ORIGINAL KB @7,640.00ft	End Date:			

Stage 5 - ABANDONMENT PLUG

TAIL CEMENT

Pumping Start:	05:00	Slurry Type:	CEMENT	Total Slurry Volume:	61.4 (bbl)	Slurry Top MD:	2,644.0 (ft)
Pumping End:	05:30	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	2,985.0 (ft)
Rate:	5.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	35.6 (bbl)
Foam Job:		Yield:	1.1500 (ft3/sk94)	Mix Water Ratio:	4.980 (gal/sk94)	Actual Sacks Used:	300
				Mix Method:			

CTU Used:		Top Plug Used:		Annular Flow:	Press. Prior to Bump:
Circulate Prior:		Bottom Plug Used:		Ann Press Held:	Bump Press.:
Circulate Flow Rate:		Bumped Plug:		Float Held:	Press. Over Pumping:
Circulate Press:		Plug Catcher Used:		Pill Spotted Below Plug:	Duration Press. Held:

TAIL CEMENT

Pumping Start:	17:00	Slurry Type:	CEMENT	Total Slurry Volume:		Slurry Top MD:	0.0 (ft)
Pumping End:	17:05	Class:	G	Excess Slurry Percent:	0.00 (%)	Slurry Btm MD:	110.0 (ft)
Rate:	4.0 (bbl/min)	Density:	15.80 (ppg)	Excess Measured By:		Total Water Vol Used:	9.5 (bbl)
Foam Job:		Yield:	1.1500 (ft3/sk94)	Mix Water Ratio:	4.980 (gal/sk94)	Actual Sacks Used:	80
				Mix Method:			

35'
140'

Remarks

FIRST BOTTOM PLUG FAILED AT 11698'
SECOND BTTM PLUG TAGGED AT 11304, WITNESSED BY BLM LARRY KNIGHT
FOURTH ABANDONMENT PLUG TAGGED AT 4270', WITNESSED BY BLM WALTER WILLIS

43-041-30059 FORM 5
T25So R1West Sec 3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: Plateau Valley Federal 35-1, Entity #17116 43-041-30060 plugged 1/9/09

LEASE NUMBER: Burrville Federal 3-1, Entity # 17171 43-041-30059 plugged 4/28/09

CONFIDENTIAL

and hereby designates

NAME: Chris Clark, Regulatory Coordinator 970-263-3628

ADDRESS: OXY USA Inc. 760 Horizon Drive, Suite 101

city Grand Junction state CO zip 81506

as his (check one) agent ☐ / operator ☑, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 12/14/2009

BY: (Name) Daniel Padilla

(Signature) [signature]

(Title) Regulatory Advisor

(Phone) (970) 263-3637

OF: (Company) OXY USA Inc. N0415

(Address) 760 Horizon Drive, Suite 101

city Grand Junction

state CO zip 81506

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(5/2000)

For Operator N 0415, OXY USA Inc., please note the following changes:

--The operator status on your website indicates "inactive"; the status should be "active"

--Please remove Donna Havins from the contact list; she is no longer working in the Regulatory Department. Please add the name of Brent Sonnier, Senior Regulatory Advisor, 5 Greenway Plaza, Suite 110, Houston TX 77046, 713-366-5654.

--Please also remove the name of Blair Rollins; he is no longer employed by Oxy.

--Please add the name of Chris Clark, Regulatory Coordinator, 970-263-3628

--Please add the name of Joan Proulx, Regulatory Administrative Assistant, 970-263-3641

--Please change the address of the Grand Junction office to 760 Horizon Drive, #101, Grand Junction, CO 81506. The address on Compass Drive is no longer valid.

--The correct address for our Houston office is P O Box 27757, Houston, TX 77227-7757

The above changes are in reference to Entity #17116, Plateau Valley Federal 35-1, and Entity #17171, Burrville Federal 3-1.

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