Form 3160-3
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
U-010953

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
Natural Buttes Unit

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

8. Lease Name and Well No.
Natural Buttes Unit 628-01E

2. Name of Operator
EOG Resources, Inc

9. API Well No.
43-047-39311

3a. Address **1060 East Highway 40**
Vernal, UT 84078

3b. Phone No. *(include area code)*
303-262-2812

10. Field and Pool, or Exploratory
Natural Buttes/Wasatch/Mesaverde

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface 637645Y **1,116' FSL & 2,190' FWL (SESW) 39.973758 LAT 109.389181 LON**
At proposed prod. zone **Same** 4425881Y 39.973796 -109.389337

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 1-T10S-R22E S.L.B. & M.

14. Distance in miles and direction from nearest town or post office*
54.9 miles south of Vernal, Utah

12. County or Parish
Uintah County

13. State
UT

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

16. No. of acres in lease
160

17. Spacing Unit dedicated to this well
Suspended

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1,090

19. Proposed Depth
7,000'

20. BLM/BIA Bond No. on file
NM - 2308

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5,120' GL

22. Approximate date work will start*

23. Estimated duration
45 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)*: **Carrie MacDonald** — Date: **05/14/2007**

Title: **Operations Clerk**

Approved by *(Signature)* — Name *(Printed/Typed)*: BRADLEY G. HILL — Date: 05-21-07

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.

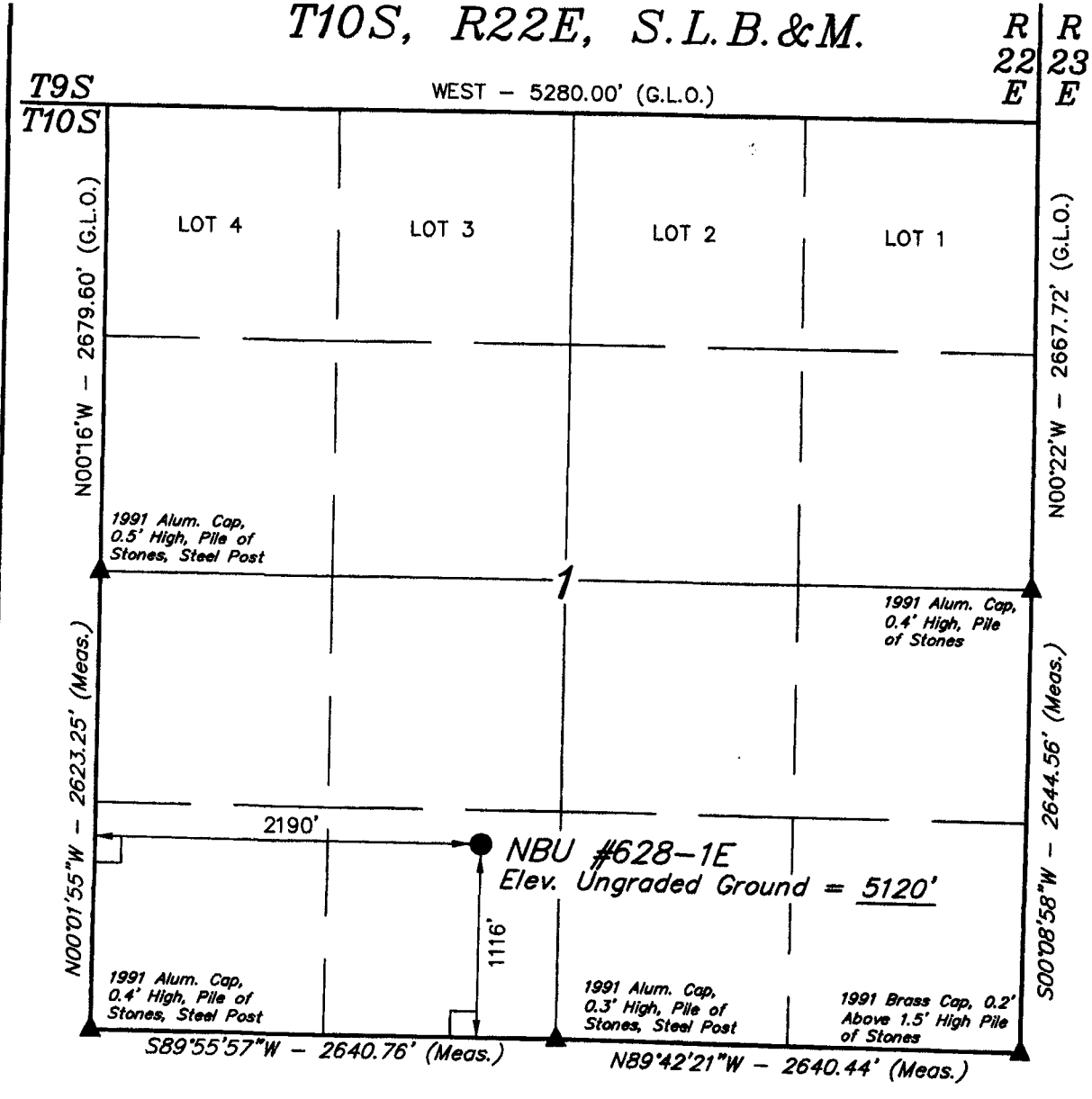
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Federal Approval of this Action is Necessary

RECEIVED
MAY 18 2007
DIV. OF OIL, GAS & MINING

T10S, R22E, S.L.B.&M.



EOG RESOURCES, INC.

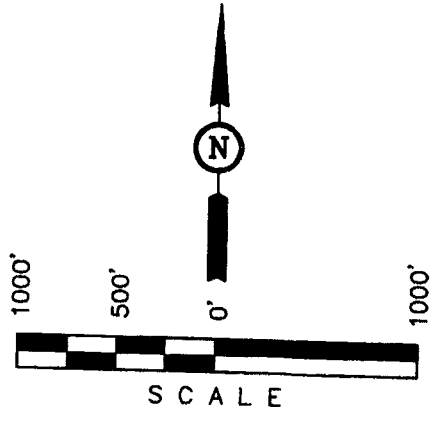
Well location, NBU #628-1E, located as shown in the SE 1/4 SW 1/4 of Section 1, T10S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE 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.

No. 161319
ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°58'25.53" (39.973758)
LONGITUDE = 109°23'23.50" (109.389861)
(NAD 27)
LATITUDE = 39°58'25.65" (39.973792)
LONGITUDE = 109°23'21.05" (109.389181)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 03-07-07	DATE DRAWN: 03-09-07
PARTY: G.S. C.R. L.K.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: EOG RESOURCES, INC.	

EIGHT POINT PLAN

NATURAL BUTTES UNIT 628-01E
SE/SW, SEC. 1, T10S, R22E, S.L.B.&M..
UINTAH COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,207		Shale	
Wasatch	4,163	Primary	Sandstone	Gas
Chapita Wells	4,714	Primary	Sandstone	Gas
Buck Canyon	5,360	Primary	Sandstone	Gas
North Horn	6,137	Primary	Sandstone	Gas
KMV Price River	6,459	Primary	Sandstone	Gas
TD	7,000			

Estimated TD: **7,000' or 200'± below Price River top** **Anticipated BHP: 3,825 Psig**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well isolating all zones by cement.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 Psig
BOP schematic diagrams attached.

4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Rating Collapse	Factor Burst	Tensile
Conductor	17 ½"	0 – 45'	13 ⅜"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 ¼"	0' – 2,300' KB±	9-⅝"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

Note: 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-⅝" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

EIGHT POINT PLAN

NATURAL BUTTES UNIT 628-01E
SE/SW, SEC. 1, T10S, R22E, S.L.B.&M..
UINTAH COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0'- 2300'±)

Guide Shoe
Insert Float Collar (PDC drillable)
Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (15 total)

Production Hole Procedure (2300'± - TD):

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 2nd joint to 400' above Wasatch Island top. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint.

6. MUD PROGRAM

Surface Hole Procedure (Surface - 2300'±):

Air/air mist or aerated water.

Production Hole Procedure (2300'± - TD): Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

2300'± - TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

7. VARIANCE REQUESTS:

Reference: **Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations**

EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. Due to reduce location excavation, the blooie line will be approximately 75' in length

EIGHT POINT PLAN

NATURAL BUTTES UNIT 628-01E
SE/SW, SEC. 1, T10S, R22E, S.L.B.&M..
UINTAH COUNTY, UTAH

8. EVALUATION PROGRAM:

Logs: Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:
Cement Bond / Casing Collar Locator and Pulsed Neutron

9. CEMENT PROGRAM:

Surface Hole Procedure (Surface - 2300'±):

Lead: **185 sks** Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% $CaCl_2$, 3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft^3/sk. yield, 23 gps water.

Tail: **207 sks** Class "G" cement with 2% $CaCl_2$, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.

Top Out: As necessary with Class "G" cement with 2% $CaCl_2$, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.

Note: Cement volumes will be calculated to bring lead cement to surface and tail cement to 500'above the casing shoe.

Production Hole Procedure (2300'± - TD)

Lead: **105 sks:** Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44 (Salt),0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft^3/sk., 24.5 gps water.

Tail: **585 sks**: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 ft^3/sk., 5.9gps water.

Note: The above number of sacks is based on gauge-hole calculation.
Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe.
Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

Final Cement volumes will be based upon gauge-hole plus 45% excess.

EIGHT POINT PLAN

NATURAL BUTTES UNIT 628-01E
SE/SW, SEC. 1, T10S, R22E, S.L.B.&M..
UINTAH COUNTY, UTAH

10. ABNORMAL CONDITIONS:

Surface Hole (Surface - 2300'±):

Lost circulation

Production Hole (2300'± - TD):
Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

11. STANDARD REQUIRED EQUIPMENT:

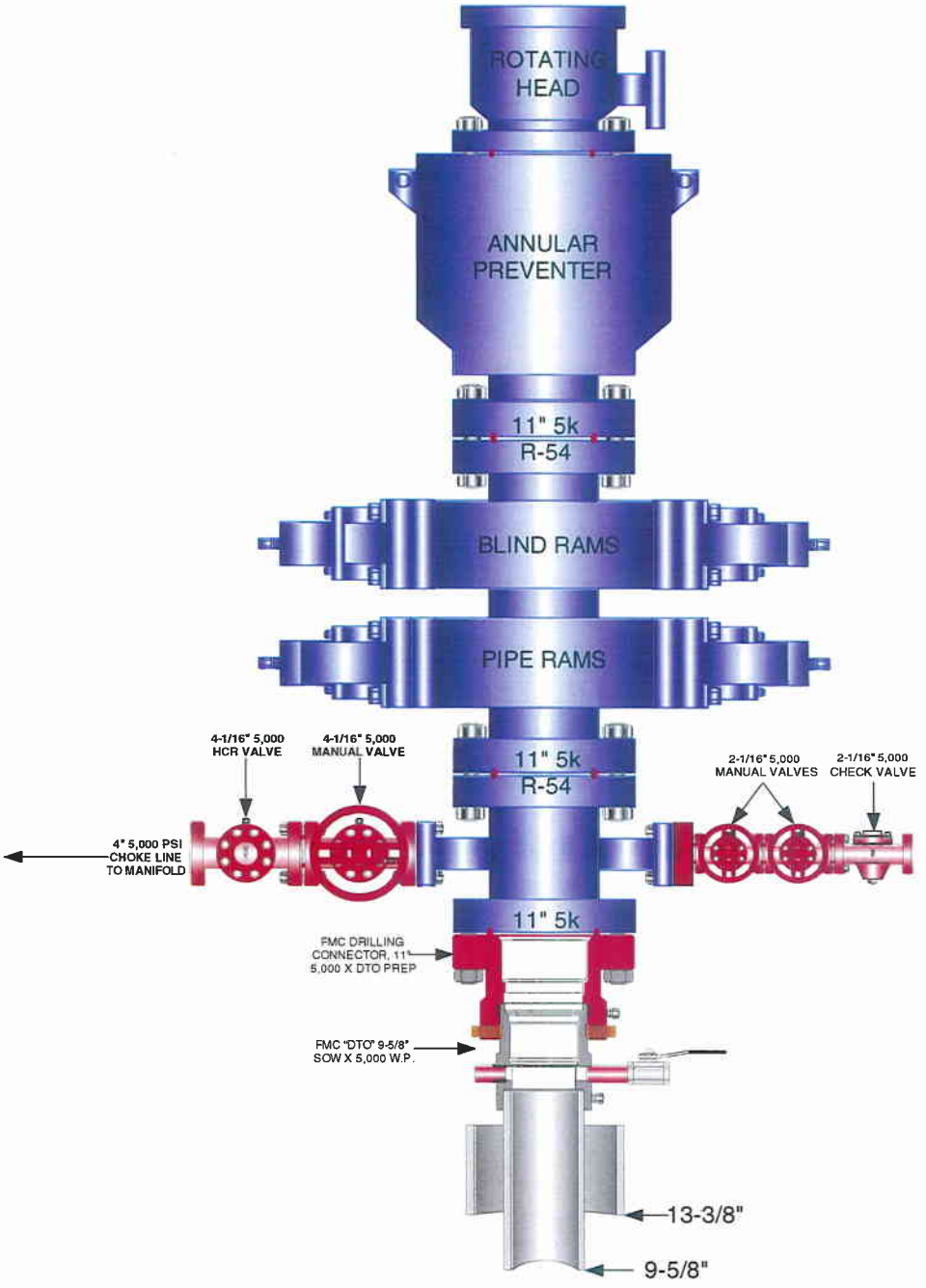
A. Choke Manifold
B. Upper and Lower Kelly Cock
C. Stabbing Valve
D. Visual Mud Monitoring

12. HAZARDOUS CHEMICALS:

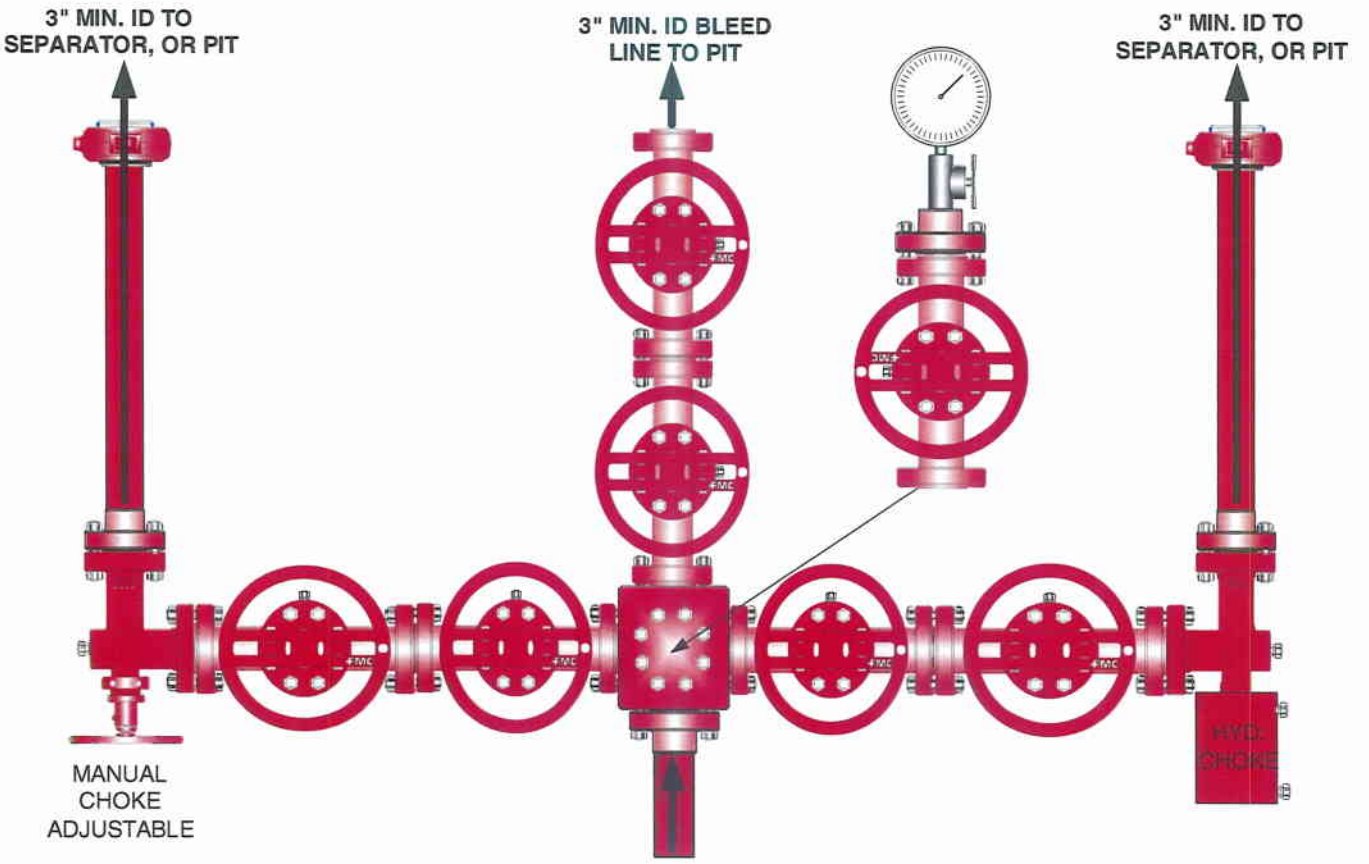
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold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

(Attachment: BOP Schematic Diagram)

EOG RESOURCES 11" 5,000 PSI W.P. BOP CONFIGURATION



EOG RESOURCES CHOKE MANIFOLD CONFIGURATION W/ 5,000 PSI WP VALVES



Testing Procedure:

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.
   Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

eog resources

Natural Buttes Unit 628-01E
SESW, Section 1, T10S, R22E
Uintah County, Utah

SURFACE USE PLAN

The well pad is approximately 375 feet long with a 261-foot width, containing 2.25 acres more or less. The well access road is approximately 140 feet long with a 40-foot right-of-way, disturbing approximately 0.13 acre. New surface disturbance associated with access road and the well pad is estimated to be approximately 2.38 acres. The pipeline is approximately 265 feet long with a 40-foot right-of-way, disturbing approximately 0.24 acre.

1. EXISTING ROADS:

A. See attached Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.

B. The proposed well site is located approximately 54.9 miles south of Vernal, Utah – See attached TOPO Map "A".

C. Refer to attached Topographic Map "A" showing labeled access route to location.

D. Existing roads will be maintained and repaired as necessary.

2. PLANNED ACCESS ROAD:

A. The access road will be approximately 140' in length.

B. The access road has a 40 foot ROW w/18 foot running surface.

C. Maximum grade of the new access road will be 8 percent.

D. No turnouts will be required.

E. Road drainage crossings shall be of the typical dry creek drainage crossing type.

F. No bridges, or major cuts and fills will be required.

G. The access road will be dirt surface.

H. No gates, cattleguards, or fences will be required or encountered.

I. A 40-foot permanent right-of-way is requested. No surfacing material will used.

J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

New or reconstructed roads will be centerlined – flagged at time of location staking. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around then avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

Traveling off the 40 foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

The entire length of the road is located within Federal Lease U-010953, thus an off-lease right-of-way is not required.

3. *LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:*

See attached TOPO map "C" for the location of wells within a one-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

A. On Well Pad

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.

2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

B. Off Well Pad

1. Proposed pipeline will transport natural gas.

2. The pipeline will be a permanent feeder line.

3. The length of the proposed pipeline is 265 x 40'. The proposed pipeline leaves the northern edge of the well pad (Lease U-010953) proceeding in a northeasterly direction for an approximate distance of 265' tieing into an existing pipeline in the SESW of Section 1, T10S, R22E. Pipe will be 4" NOM, 0.156 wall, Grade X42, Zap-Lock, electric weld with a 35 mil X-Tru coating.

4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface

5. Proposed pipeline will be laid on surface.

6. A 20-foot permanent pipeline right-of-way is requested. A 40-foot temporary pipeline right-of-way for construction purposes is requested, the temporary right-of-way will be utilized for a 10-day period.

7. The proposed pipeline route begins in the SESW of section 1, township 10S, range 22E, proceeding northeasterly for an 265' tieing into an existing pipeline. The entire length of the proposed pipeline is located within Federal Lease U-010953, thus a pipeline ROW is not required.

8. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. **All facilities will be painted with Carlsbad Canyon.** Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/or Bonanza Power Plant water source in Sec 26, T8S, R23E Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.

B. Water will be hauled by a licensed trucking company.

C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.

B. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL:

A. METHODS AND LOCATION

1. Cuttings will be confined in the reserve pit.

2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.

3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the Uintah County Landfill.

4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or by removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

The reserve pit shall be lined with felt and a 16 millimeter plastic liner. Sufficient bedding (i.e. weed free straw, or hay; felt; polyswell or soil) to cover any rocks. The liner will overlap 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. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

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 annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

8. *ANCILLARY FACILITIES:*

None anticipated.

9. *WELL SITE LAYOUT:*

A. Refer to attached well site plat for related topography cuts and fills and cross sections.

B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.

C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the southwest corner of the location. The flare pit will be located downwind of the prevailing wind direction on the west side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled pit topsoil (first six inches) will be stored separate from the location topsoil west of corner #5. The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protect of the topsoil. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture from this location and then walked down with a Caterpiller tractor.

Access to the well pad will be from the south.

FENCING REQUIREMENTS:

All pits will be fenced according to the following minimum standards:

A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.)

B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.

C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.

D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distances between any two posts shall be no greater than 16 feet.

E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BLM or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently counted on concrete bases. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RECLAMATION OF THE SURFACE:

A. *Interim Reclamation (Producing Location)*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

Seed Mixture	Drilled Rate (lbs./acre PLS*)
HyCrest Wheatgrass	9.0
Prostrate Kochia	3.0

*Pure live seed (PLS) formula: percent of purity of seed mixture times percent germination of seed mixture equals portion of seed mixture that is PLS.

B. Dry Hole/Abandoned Location

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriated surface rehabilitation conditions of approval.

Seed Mixture	Drilled Rate (lbs./acre PLS*)
Wyoming Big Sage	3.0
Needle and Thread Grass	3.0
Indian Ricegrass	3.0
Winter Fat	1.0
HyCrest Wheatgrass	1.0

*Pure live seed (PLS) formula: percent of purity of seed mixture times percent germination of seed mixture equals portion of seed mixture that is PLS.

11. SURFACE OWNERSHIP:

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

Bureau of Land Management

12. OTHER INFORMATION:

A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used.
- A time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BLM administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application or herbicides or other pesticides or possible hazardous chemicals.

C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on BLM lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan

of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion.

A cultural resources survey was conducted and submitted by Montgomery Archaeological Consultants. A paleontological survey was conducted and submitted by Intermountain Paleo.

LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

PERMITTING AGENT
Carrie MacDonald
EOG Resources, Inc.
600 17th Street, Suite 1000N
Denver, CO 80202
(303) 262-2812

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

The operator or his/her contractor shall contact the BLM office at (435) 781-4400 forty-eight (48) hours prior to construction activities.

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that EOG Resources, Inc. is considered to be the operator of the Natural Buttes Unit 628-01E well, located in the SESW, of Section 1, T10S, R22E, Uintah County, Utah; Federal land and minerals; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is under Bond # NM 2308.

May 8, 2007
Date

Carrie MacDonald, Operations Clerk

Onsite Date: April 18, 2007

EOG RESOURCES, INC.

NBU #628-1E

LOCATED IN UINTAH COUNTY, UTAH
SECTION 1, T10S, R22E, S.L.B.&M.

PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY

Since 1964

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	03 MONTH	07 DAY	07 YEAR	PHOTO
TAKEN BY: G.S.	DRAWN BY: C.P.	REVISED: 00-00-00		

EOG RESOURCES, INC.
NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 5.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 140' TO THE PROPOSED LOCATION.

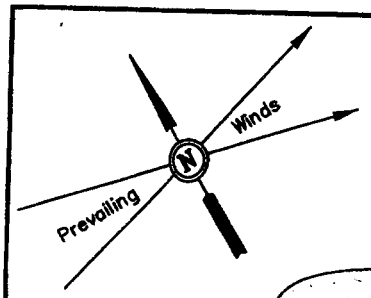
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 54.9 MILES.

EOG RESOURCES, INC.

LOCATION LAYOUT FOR

NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

FIGURE #1



SCALE: 1" = 50'
DATE: 03-09-07
Drawn By: L.K.

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

C-1.0'
El. 115.6'

Topsoil Stockpile

Topsoil Stockpile

Sta. 3+75

F-1.4'
El. 113.2'

F-0.1'
El. 114.5'

111'

Round Corners as needed

REGISTERED LAND SURVEYOR
No. 161319
ROBERT O. KAY
STATE OF UTAH

Pit Topsoil

200'

CATWALK

40'

30'

Flare Pit

PIPE RACKS

Existing Drainage

C-4.6'
El. 119.2'

C-5.2'
El. 119.8'

F-16.4'
El. 98.2'

C-11.1'
El. 115.7'
(btm. pit)

RIG

DOG HOUSE

36'

150'

Sta. 1+75

75'

MUD TANKS

WATER

TRAILER

PUMP

TOILET

MUD SHED

RESERVE PITS (10' Deep)

HOPPER

FUEL

175'

POWER

TOOLS

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

Total Pit Capacity W/2' of Freeboard = 12,820 Bbls.± Total Pit Volume = 3,580 Cu. Yds

1:1 1/2 SLOPE

FUEL

Sta. 0+50

Existing Drainage

Approx. Top of Cut Slope

TRASH

STORAGE TANK

C-5.1'
El. 119.7'

F-9.9'
El. 104.7'

C-13.9'
El. 118.5'
(btm. pit)

Sta. 0+00

20' WIDE BENCH

C-5.5'
El. 120.1'

Proposed Access Road

Approx. Toe of Fill Slope

Elev. Ungraded Ground at Location Stake = 5119.8'

Elev. Graded Ground at Location Stake = 5114.6'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

EOG RESOURCES, INC.

TYPICAL CROSS SECTIONS FOR

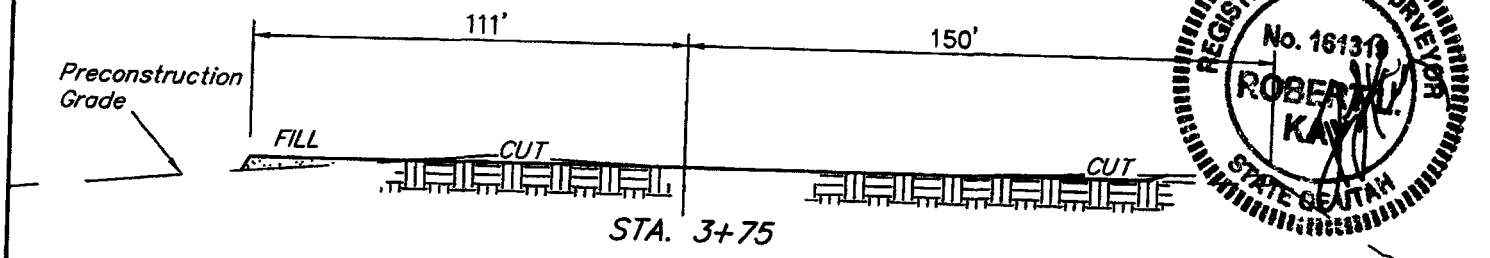
NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

FIGURE #2

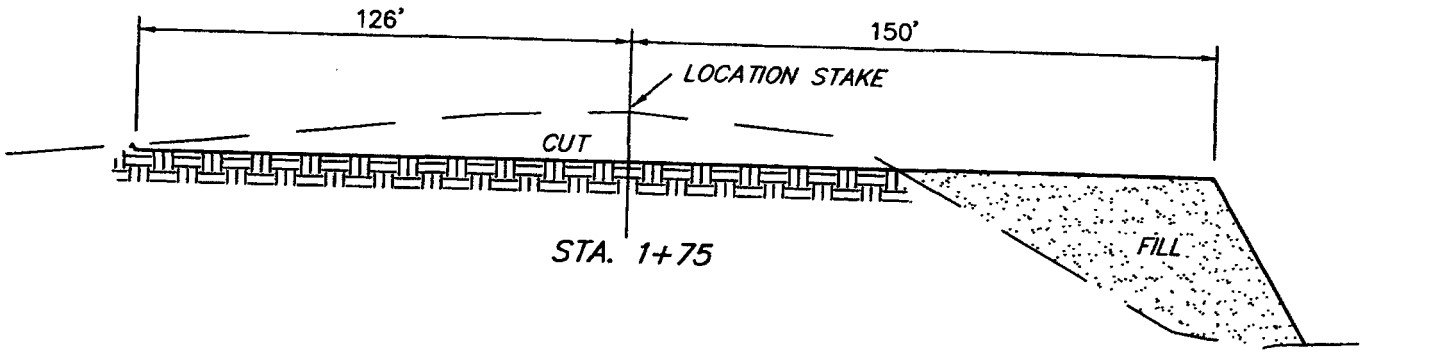
1" = 20' X-Section Scale
1" = 50'

DATE: 03-09-07
Drawn By: L.K.

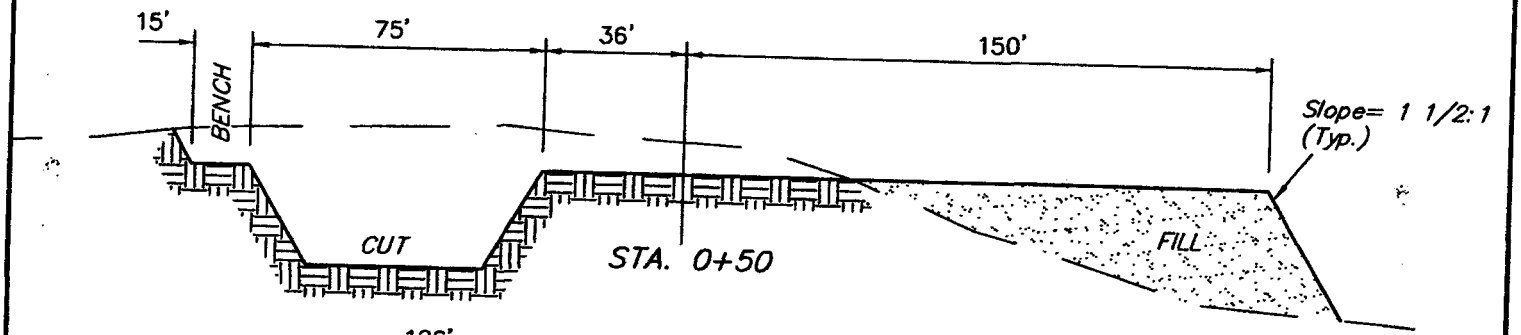
REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH



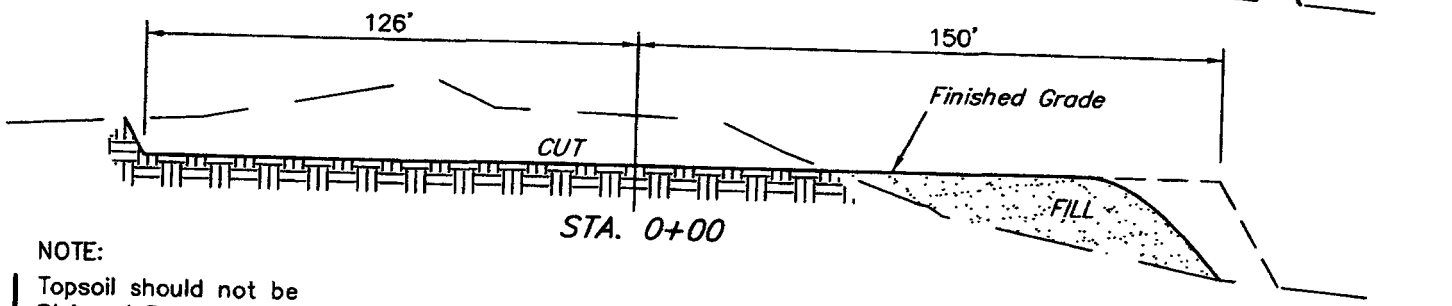
STA. 3+75



STA. 1+75



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	2,160 Cu. Yds.
Remaining Location	=	10,660 Cu. Yds.
TOTAL CUT	=	12,820 CU.YDS.
FILL	=	8,870 CU.YDS.

EXCESS MATERIAL	=	3,950 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,950 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

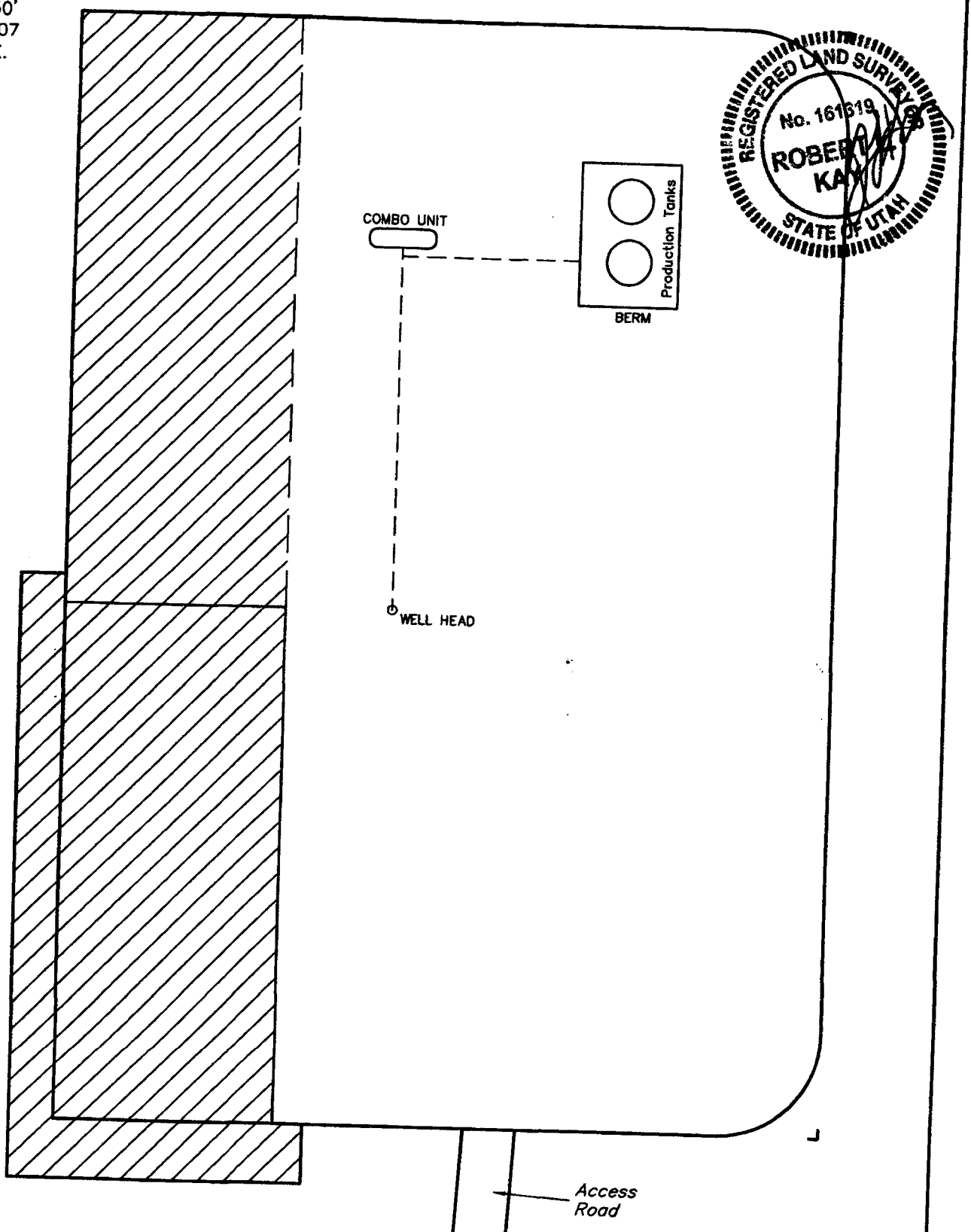
EOG RESOURCES, INC.

PRODUCTION FACILITY LAYOUT FOR

NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

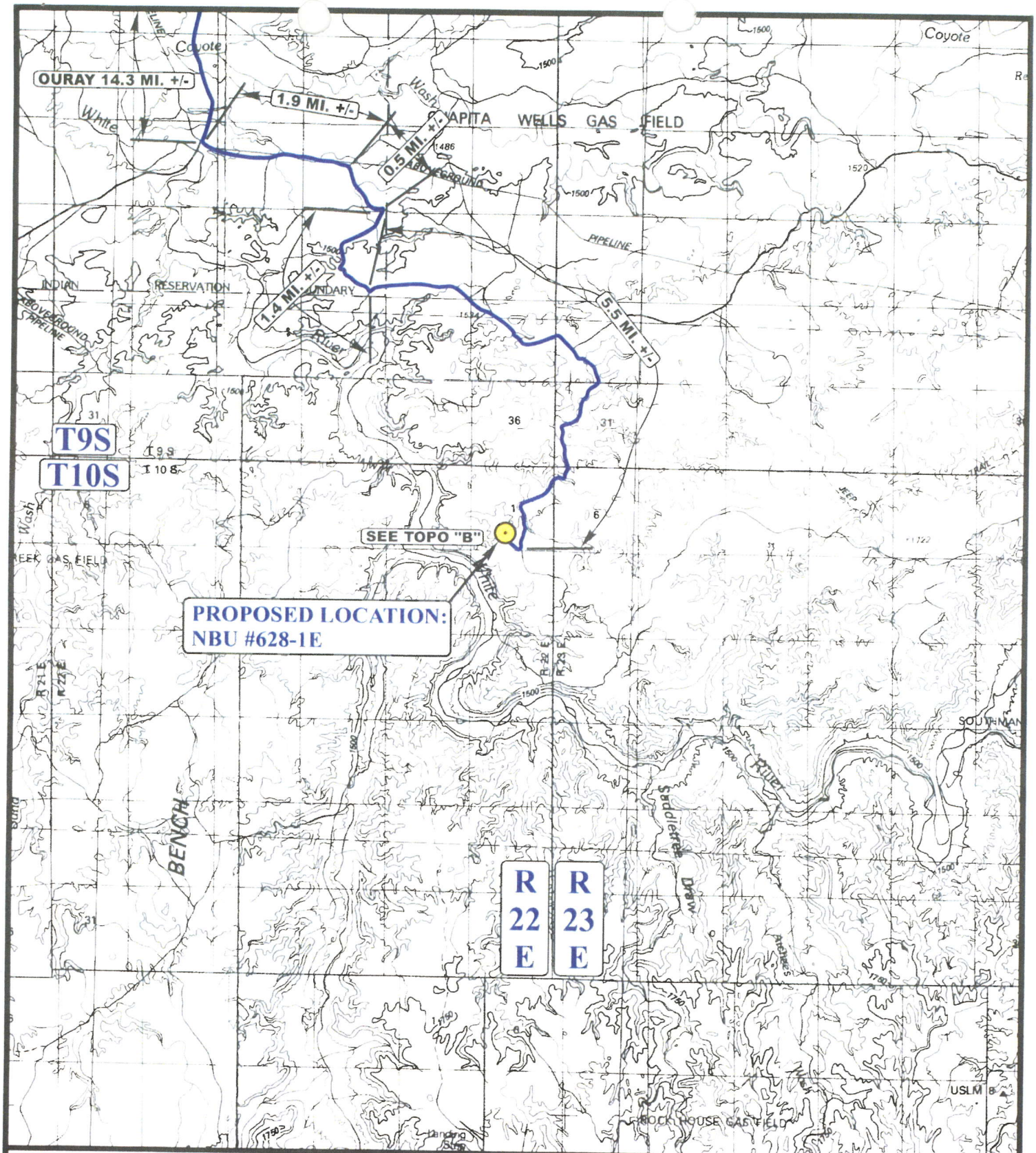
FIGURE #3

SCALE: 1" = 50'
DATE: 03-09-07
Drawn By: L.K.



RE-HABED AREA

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

PROPOSED LOCATION

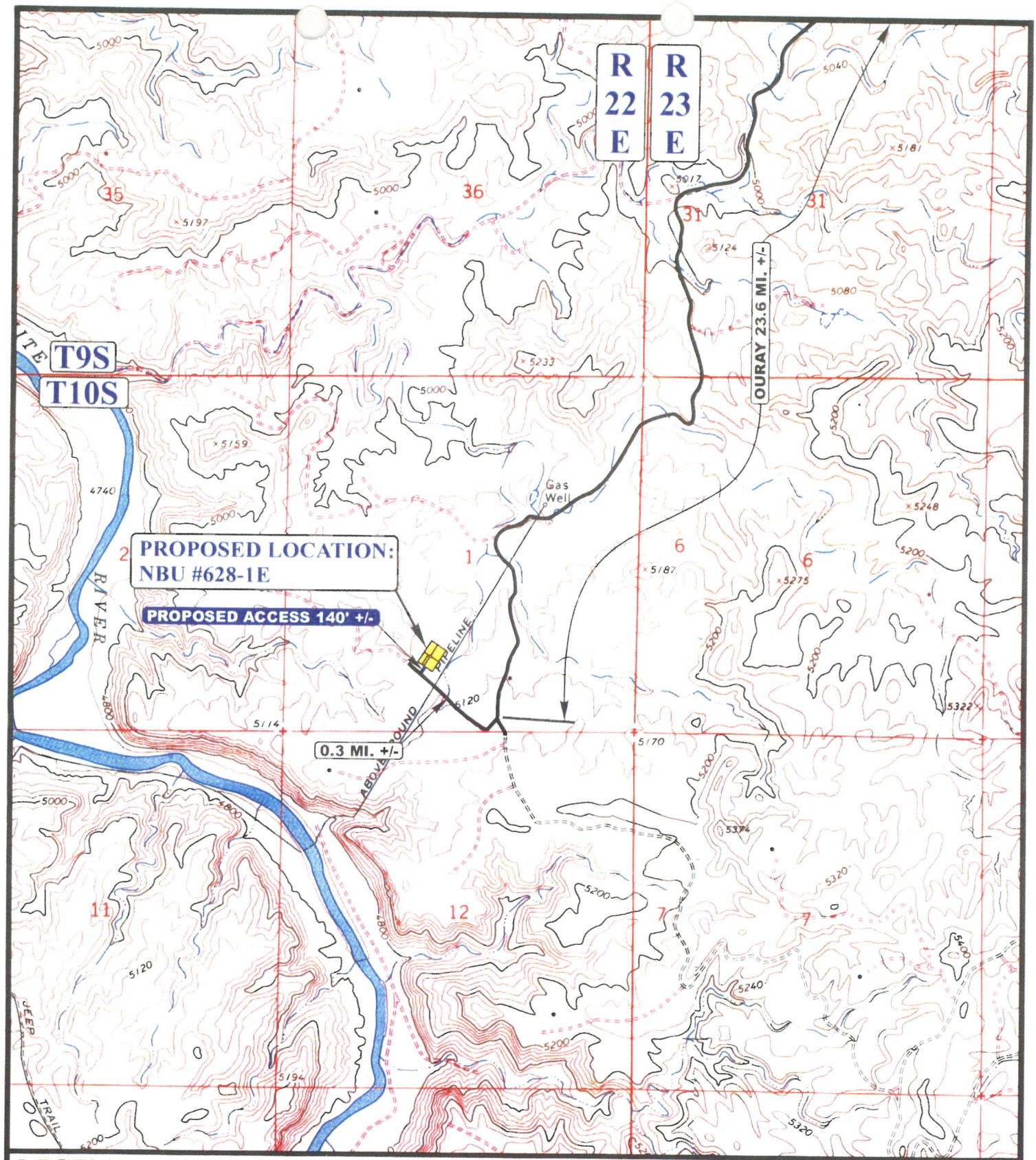
N

EOG RESOURCES, INC.

NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	03 MONTH	07 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

EOG RESOURCES, INC.

NBU #628-1E

SECTION 1, T10S, R22E, S.L.B.&M.

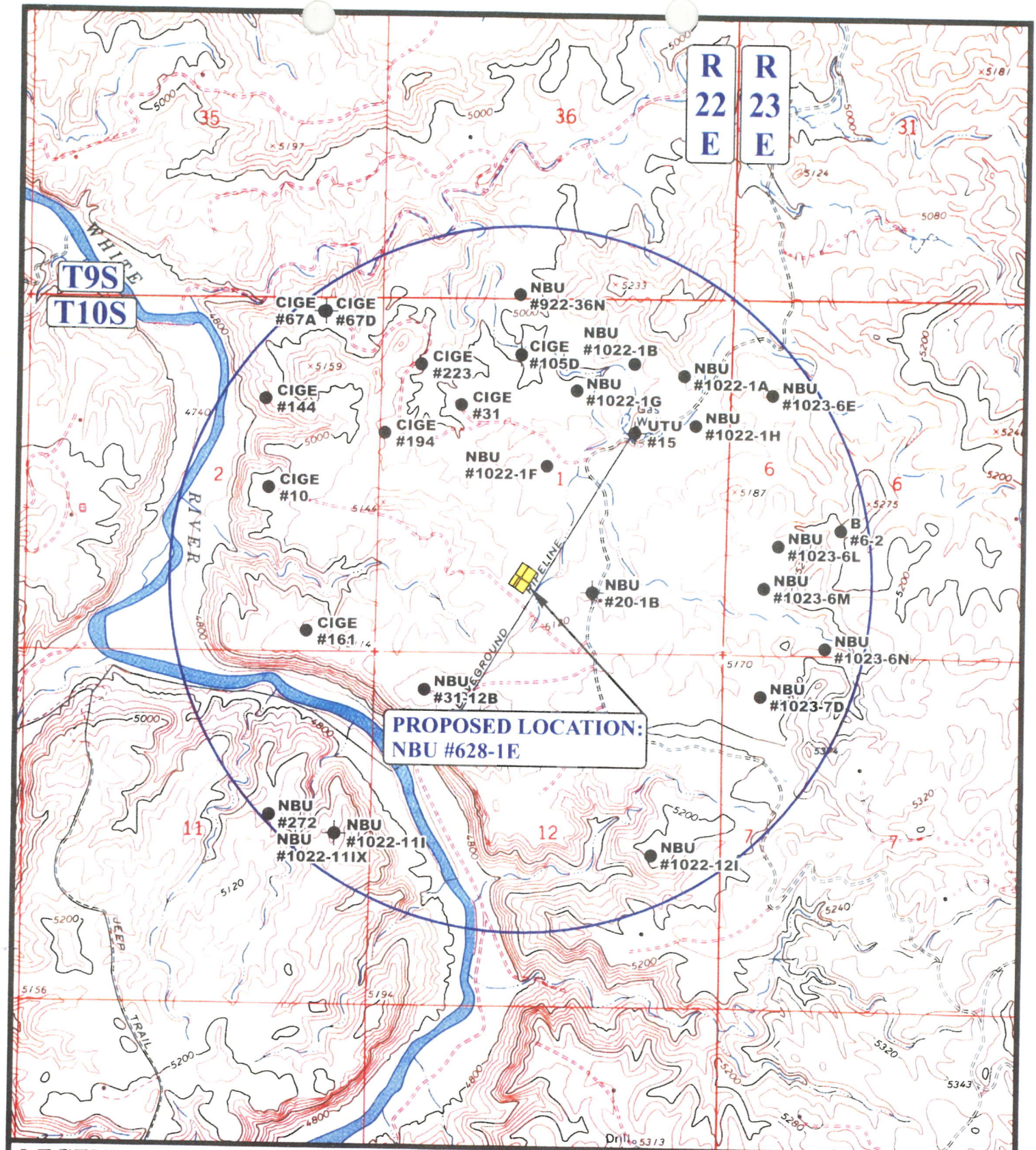
1116' FSL 2190' FWL

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	03 MONTH	07 DAY	07 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00	B TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

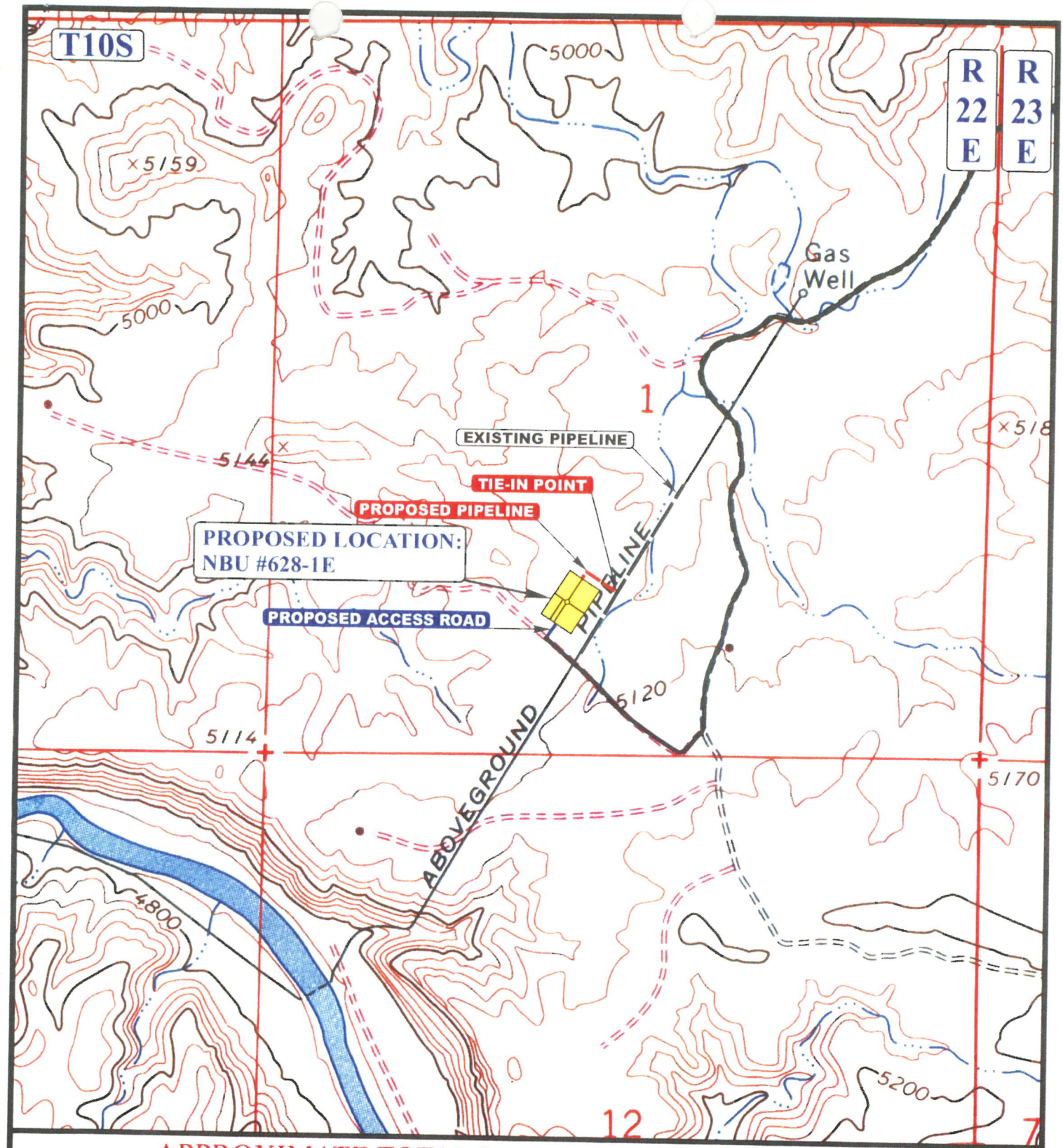
N

EOG RESOURCES, INC.

NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	03 MONTH	07 DAY	07 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 265' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

EOG RESOURCES, INC.

NBU #628-1E
SECTION 1, T10S, R22E, S.L.B.&M.
1116' FSL 2190' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	03 MONTH	07 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 00-00-00		

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/18/2007

API NO. ASSIGNED: 43-047-39311

WELL NAME: NBU 628-01E
OPERATOR: EOG RESOURCES INC (N9550)
CONTACT: CARRIE MACDONALD

PHONE NUMBER: 303-262-2812

PROPOSED LOCATION:
SESW 01 100S 220E
SURFACE: 1116 FSL 2190 FWL
BOTTOM: 1116 FSL 2190 FWL
COUNTY: UINTAH
LATITUDE: 39.97380 LONGITUDE: -109.3893
UTM SURF EASTINGS: 637545 NORTHINGS: 4425881
FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	**Initials**	**Date**
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
LEASE NUMBER: U-010953
SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD
COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

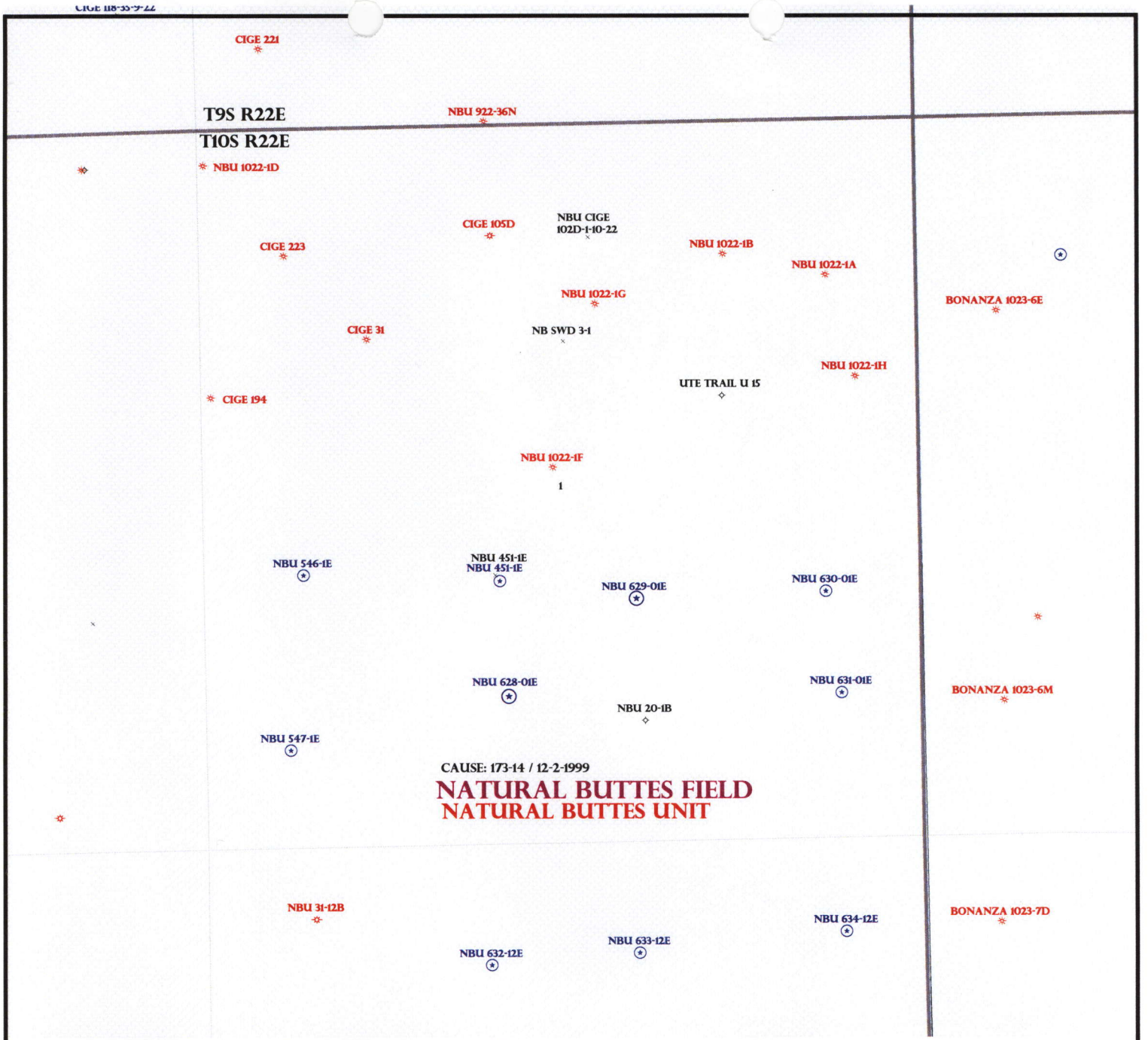
✓ Plat
✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. NM-2308)
N Potash (Y/N)
✓ Oil Shale 190-5 (B) or 190-3 or 190-13
✓ Water Permit
(No. 49-225)
N RDCC Review (Y/N)
(Date:)
NA Fee Surf Agreement (Y/N)
NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.
Unit: NATURAL BUTTES OK
___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
✓ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr u bdrys & Uncomm. Tract
___ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1-Federal Approval
2-Oil Shale



OPERATOR: EOG RESOURCES INC (N9550)

SEC: 1 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

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 Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON
DATE: 21-MAY-2007

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 & Mining

JOHN R. BAZA
Division Director

May 21, 2007

EOG Resources Inc
1060 East Highway 40
Vernal, UT 84078

Re: Natural Buttes Unit 628-01E Well, 1116' FSL, 2190' FWL, SE SW, Sec. 1, T. 10 South, R. 22 East, Uintah 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 43-047-39311.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: EOG Resources Inc

Well Name & Number Natural Buttes Unit 628-01E

API Number: 43-047-39311

Lease: U-010953

Location: SE SW **Sec.** 1 **T.** 10 South **R.** 22 East

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 with 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 office
     (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. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

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

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: U-010953	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: Natural Buttes Unit	
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: Natural Buttes Unit 628-01E
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43-047-39311
3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY Vernal STATE UT ZIP 84078 / PHONE NUMBER: (435) 781-9111	10. FIELD AND POOL, OR WILDCAT: Natural Buttes/Mesaverde

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1116' FSL & 2190 FWL 39.973758 LAT 109.389861 LON — COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 1 10S 22E S.L.B. & M. — 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: APD EXTENSION REQUEST
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 05-20-08

By: [signature]

COPY SENT TO OPERATOR

Date: 5·21·2008

Initials: KS

NAME (PLEASE PRINT) Kaylene R. Gardner — TITLE Lead Regulatory Assistant

SIGNATURE [signature] — DATE 5/19/2008

(This space for State use only)

RECEIVED

MAY 16 2008

DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-39311
Well Name: Natural Buttes Unit 628-01E
Location: 1116 FSL 2190 FWL (SESW), Section 1, T10S, R22E S.L.B.&M.
Company Permit Issued to: EOG Resources, Inc.
Date Original Permit Issued: 5/21/2007

The undersigned as owner with legal rights to drill on the property as permitted above, 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.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐ No☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐ No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐ No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐ No☑

Has the approved source of water for drilling changed? Yes☐ No☑

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? Yes☐ No☑

Is bonding still in place, which covers this proposed well? Yes☑ No☐

Signature

5/9/2008
Date

Title: Lead Regulatory Assistant

Representing: EOG Resources, Inc.

RECEIVED
MAY 16 2008
DIV. OF OIL, GAS & MINING

Form 3160-3
(February 2005)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
U-010953

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
Natural Buttes Unit

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

8. Lease Name and Well No.
Natural Buttes Unit 628-01E

2. Name of Operator
EOG Resources, Inc

9. API Well No.
43-047-39311

3a. Address **1060 East Highway 40**
Vernal, UT 84078

3b. Phone No. *(include area code)*
303-262-2812

10. Field and Pool, or Exploratory
Natural Buttes/Wasatch/Mesaverde

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **1,116' FSL & 2,190' FWL (SESW) 39.973758 LAT 109.389181 LON**
At proposed prod. zone **Same**

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 1-T10S-R22E S.L.B. & M.

14. Distance in miles and direction from nearest town or post office*
54.9 miles south of Vernal, Utah

12. County or Parish
Uintah County

13. State
UT

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

16. No. of acres in lease
160

17. Spacing Unit dedicated to this well
Suspended

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1,090

19. Proposed Depth
7,000'

20. BLM/BIA Bond No. on file
NM - 2308

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5,120' GL

22. Approximate date work will start*

23. Estimated duration
45 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: Carrie MacDonald | Name *(Printed/Typed)*: **Carrie MacDonald** | Date: **05/14/2007**

Title: **Operations Clerk**

Approved by *(Signature)* | Name *(Printed/Typed)*: Jerry Kenczka | Date: JAN 12 2009

Title: Assistant Field Manager Lands & Mineral Resources | Office: **VERNAL 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.

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)

RECEIVED
VERNAL FIELD OFFICE
2007 MAY 18 PM 12: 59
DEPT. OF THE INTERIOR
BUREAU OF LAND MGMT.

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
FEB 02 2009

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

NOS 03/29/2007

07PP1702A

UDOGM

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**EOG Resources, Inc.**	**Location:**	**SESW, Sec. 1, T10S, R22E**
Well No:	**NBU 628-01E**	**Lease No:**	**UTU-010953**
API No:	**43-047-39311**	**Agreement:**	**Natural Buttes Unit**

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
		Fax: (435) 781-3420	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Prevent fill and stock piles from entering drainages.
- The access road shall be crowned and ditched. Flat-bladed roads are not allowed.
- The authorized officer may prohibit surface disturbing activities during severe winter, wet, or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches, or gravel (from a private or commercial source) etc. shall be installed to control the erosion. Low-water crossings and culverts shall be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Bury pipelines at all low water crossings.
- The pit liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's

- A formation integrity test shall be performed at the surface casing shoe.
- Top of cement shall be brought to at least 200' inside the 9 5/8" surface casing shoe.

Surface site specific COA's

- Operator must notify any active gilsonite operation within 2 miles of the location 48 hrs prior to any blasting associated with this well.

Variance Granted

- 75 foot long blooie line approved.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: U-010953

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME: Natural Buttes Unit

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

8. WELL NAME and NUMBER: Natural Buttes Unit 628-01E

2. NAME OF OPERATOR: EOG Resources, Inc.

9. API NUMBER: 43-047-39311

3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY Vernal STATE UT ZIP 84078

PHONE NUMBER: (435) 781-9111

10. FIELD AND POOL, OR WILDCAT: Natural Buttes/Mesaverde

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1116' FSL & 2190 FWL 39.973758 LAT 109.389861 LON

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 1 10S 22E S.L.B. & M.

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: APD EXTENSION REQUEST
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 05-11-09

By:

COPY SENT TO OPERATOR

Date: 5·12·2009

Initials: KS

NAME (PLEASE PRINT) Mickenzie Thacker TITLE Operations Clerk

SIGNATURE Mickenzie Thacker DATE 5/5/2009

(This space for State use only)

RECEIVED
MAY 06 2009
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-39311
Well Name: Natural Buttes Unit 628-01E
Location: 1116 FSL 2190 FWL (SESW), Section 1, T10S, R22E S.L.B.&M.
Company Permit Issued to: EOG Resources, Inc.
Date Original Permit Issued: 5/21/2007

The undersigned as owner with legal rights to drill on the property as permitted above, 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.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐ No☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐ No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐ No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐ No☑

Has the approved source of water for drilling changed? Yes☐ No☑

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? Yes☐ No☑

Is bonding still in place, which covers this proposed well? Yes☑ No☐

Signature

5/5/2009
Date

Title: Operations Clerk

Representing: EOG Resources, Inc.

RECEIVED
MAY 06 2009
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining

ROUTING

1. DJJ
2. CDW

OPERATOR CHANGE WORKSHEET

X Change of Operator (Well Sold) Designation of Agent/Operator

Operator Name Change Merger

The operator of the well(s) listed below has changed, effective:	**1/1/2010**
FROM: (Old Operator): N9550-EOG Resources 1060 E Hwy 40 Vernal, UT 84078 Phone: 1-(435) 781-9111	**TO:** (New Operator): N2995-Kerr-McGee Oil & Gas Onshore., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024

CA No.				**Unit:**		**NATURAL BUTTES**		
WELL NAME(S)	**SEC**	**TWN**	**RNG**	**API NO**	**ENTITY NO**	**LEASE TYPE**	**WELL TYPE**	**WELL STATUS**
SEE ATTACHED LIST								

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: 12/24/2009
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/24/2009
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 3/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

6b. Inspections of LA PA state/fee well sites complete on: n/a

7. **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 n/a
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **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:** 1/31/2010
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 1/31/2010
3. Bond information entered in RBDMS on: 1/31/2010
4. Fee/State wells attached to bond in RBDMS on: 1/31/2010
5. Injection Projects to new operator in RBDMS on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: WYB000291
2. Indian well(s) covered by Bond Number: n/a
3. (R649-3-1) The **NEW** operator of any state or fee well(s) listed covered by Bond Number 22013542
4. The **FORMER** operator has requested a release of liability from their bond on: n/a

COMMENTS:

EOG transferred all their leases and permits in NBU to Kerr-McGee effective January 1, 2010

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.
Multiple Leases

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
Natural Buttes

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

8. Well Name and No.
Multiple Wells

2. Name of Operator
EOG Resources , Inc

9. API Well No.
See Attached

3a. Address
1060 EAST HIGHWAY 40, VERNAL, UT 84078

3b. Phone No. *(include area code)*
435-781-9145

10. Field and Pool or Exploratory Area
Natural Buttes

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
See Attached

11. Country or Parish, State
Uintah, Utah

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 of Operator
	☐ 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.)

EOG Resources, Inc. has assigned all of its right, title and interest in the wells described in the attached list ("the Subject Wells") to Kerr-McGee Oil & Gas Onshore LP and will relinquish and transfer operatorship of all of the Subject Wells to Kerr-McGee Oil & Gas Onshore LP on January 1, 2010.

As of January 1, 2010, Kerr-McGee Oil & Gas Onshore LP will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Kerr-McGee Oil & Gas Onshore LP's Nationwide BLM Bond No. WYB-000291.

Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, CO 80202-1918

By: Michael A. Nixon Date: 12/17/2009
Michael A. Nixon
Agent and Attorney-in-Fact

APPROVED* 1/31/2010 *except (1)
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)*
J. Michael Schween

Title Agent and Attorney-in-Fact

Signature

Date 12/17/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECEIVED
DEC 24 2009

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)

Lease	API #	Well Name	Footages	T	R	Sec.	QQ	PROPOSED TD	APD Sub'd
UTU-0581	43-047-40216	Natural Buttes Unit 419-29E	859 FNL - 2338 FWL	9S	21E	29	NENW	6,640	6-26-08
UTU-0581	43-047-50127	Natural Buttes Unit 420-29E	471 FNL - 2012 FEL	9S	21E	29	NWNE	6,673	9-11-08
UTU-01791	43-047-40225	Natural Buttes Unit 430-8E	882 FSL - 514 FWL	10S	21E	8	SWSW	6,201	7-3-08
UTU-01791	43-047-40074	Natural Buttes Unit 432-9E	864 FSL - 686 FWL	10S	21E	9	SWSW	5,984	5-8-08
UTU-010954-A	43-047-39732	Natural Buttes Unit 512-35E	722 FNL - 1988 FWL	9S	22E	35	NENW	7,412	10-19-07
UTU-0149076	~~43-047-35880~~	~~Natural Buttes Unit 540-24E~~	521 FSL - 750 FEL	9S	21E	24	SESE	9,800	8-6-04
UTU-010954	43-047-39306	Natural Buttes Unit 603-35E	1047 FNL - 679 FEL	9S	22E	35	NENE	7,257	5-14-07
UTU-010954-A	43-047-39302	Natural Buttes Unit 604-35E	1139 FNL - 1826 FEL	9S	22E	35	NWNE	7,330	5-11-07
UTU-010954	43-047-50275	Natural Buttes Unit 605-35E	1799 FNL - 2165 FEL	9S	22E	35	SWNE	7,290	1-29-09
UTU-010954-A	43-047-39292	Natural Buttes Unit 627-35E	1970 FNL - 1847 FWL	9S	22E	35	SENW	7,275	5-7-07
UTU-6774	43-047-50028	Natural Buttes Unit 672-25E	1980 FNL - 660 FWL	10S	20E	25	SWNW	6,032	2-5-08
UTU-6774	43-047-50036	Natural Buttes Unit 675-25E	1977 FNL - 2110 FEL	10S	20E	25	SWNE	6,035	3-14-08
UTU-6774	43-047-50031	Natural Buttes Unit 676-25E	1978 FNL - 923 FEL	10S	20E	25	SENE	6,100	2-12-08
UTU-4476	43-047-40416	Natural Buttes Unit 677-26E	839 FNL - 1133 FWL	10S	20E	26	NWNW	6,157	11-14-08
UTU-4476	43-047-40220	Natural Buttes Unit 678-26E	1960' FNL - 481 FWL	10S	20E	26	SWNW	6,254	7-3-08
UTU-4476	43-047-40305	Natural Buttes Unit 680-26E	799 FNL - 1923 FEL	10S	20E	26	NWNE	6,242	8-1-08
UTU-01791	43-047-40417	Natural Buttes Unit 692-6E	661 FSL - 1840 FWL	10S	21E	6	SESW	6,484	11-14-08
UTU-472	43-047-40268	Natural Buttes Unit 701-26E	2215 FNL - 1770 FEL	10S	22E	26	SWNE	7,023	7-24-08
UTU-472	43-047-40240	Natural Buttes Unit 702-26E	2130 FSL - 1903 FEL	10S	22E	26	NWSE	7,003	7-14-08
UTU-472	43-047-40241	Natural Buttes Unit 703-26E	1836 FSL - 797 FEL	10S	22E	26	NESE	6,991	7-14-08
UTU-472	43-047-40267	Natural Buttes Unit 704-26E	785 FSL - 1806 FEL	10S	22E	26	SWSE	6,998	7-24-08
UTU-472	43-047-40374	Natural Buttes Unit 705-26E	552 FSL - 475 FEL	10S	22E	26	SESE	6,957	9-22-08
UTU-037167	43-047-40243	Natural Buttes Unit 710-35E	600 FNL - 1967 FWL	10S	22E	35	NENW	6,984	7-14-08
UTU-037167	43-047-40418	Natural Buttes Unit 712-35E	2160 FNL - 1923 FWL	10S	22E	35	SENW	6,938	11-14-08
UTU-037167	43-047-40242	Natural Buttes Unit 713-35E	739 FSL - 702 FEL	10S	22E	35	NENE	6,902	7-14-08
UTU-037167	43-047-40270	Natural Buttes Unit 714-35E	1957 FNL - 1881 FEL	10S	22E	35	SWNE	6,933	7-24-08
UTU-037167	43-047-40269	Natural Buttes Unit 715-35E	1684 FNL - 1042 FEL	10S	22E	35	SENE	6,921	7-24-08
UTU-0577-A	43-047-50262	Natural Buttes Unit 716-26E	660 FNL - 1980 FEL	9S	20E	26	NWNE	7,184	1-19-09
UTU-0577-A	43-047-40264	Natural Buttes Unit 717-26E	2084 FNL - 1978 FEL	9S	20E	26	SWNE	7,180	7-24-08
UTU-0577-A	43-047-40210	Natural Buttes Unit 718-26E	2009 FNL - 557 FEL	9S	20E	26	SENE	7,201	6-26-08
UTU-0577-A	43-047-50116	Natural Buttes Unit 719-26E	2088 FSL - 2171 FEL	9S	20E	26	NWSE	7,164	9-11-08
UTU-0577-A	43-047-40265	Natural Buttes Unit 720-26E	1916 FSL - 685 FEL	9S	20E	26	NESE	7,175	7-24-08
UTU-0577-A	43-047-50115	Natural Buttes Unit 721-26E	624 FSL - 1828 FEL	9S	20E	26	SWSE	7,167	9-11-08
UTU-0577-A	43-047-40209	Natural Buttes Unit 722-26E	676 FSL - 849 FEL	9S	20E	26	SESE	7,175	6-26-08
UTU-0582	43-047-40212	Natural Buttes Unit 723-35E	668 FNL - 1985 FEL	9S	20E	35	NWNE	7,093	7-2-08
UTU-0582	43-047-40215	Natural Buttes Unit 724-35E	758 FNL 781 FEL	9S	20E	35	NENE	7,097	7-2-08
UTU-0582	43-047-40214	Natural Buttes Unit 725-35E	1884 FNL - 2179 FEL	9S	20E	35	SWNE	7,074	6-26-08
UTU-0582	43-047-40211	Natural Buttes Unit 726-35E	1966 FNL - 515 FEL	9S	20E	35	SENE	7,084	6-26-08
UTU-460	43-047-50274	Natural Buttes Unit 727-35E	2049 FSL - 1745 FEL	9S	20E	35	NWSE	7,031	1-29-09
UTU-460	43-047-40458	Natural Buttes Unit 728-35E	852 FSL - 1937 FEL	9S	20E	35	SWSE	7,017	12-19-08

(1)

Lease	API #	Well Name	Footages	T	R	Sec.	QQ	PROPOSED TD	APD Sub'd
UTU-460	43-047-40213	Natural Buttes Unit 729-35E	554 FSL - 504 FEL	9S	20E	35	SESE	7,036	6-26-08
UTU-0581	43-047-40218	Natural Buttes Unit 737-30E	1948 FSL - 1071 FWL	9S	21E	30	NWSW (Lot 3)	6,756	7-2-08
UTU-0581	43-047-50468	Natural Buttes Unit 738-30E	1947 FSL - 2465 FWL	9S	21E	30	NESW	6,759	6-8-09
UTU-0581	43-047-40219	Natural Buttes Unit 739-30E	814 FSL - 2147 FWL	9S	21E	30	SESW	6,750	7-2-08
UTU-0581	43-047-50118	Natural Buttes Unit 740-30E	512 FSL - 780 FWL	9S	21E	30	SWSW (Lot 4)	6,809	9-11-08
UTU-0581	43-047-50128	Natural Buttes Unit 741-30E	661 FSL - 1980 FEL	9S	21E	30	SWSE	6,729	9-11-08
UTU-0581	43-047-40183	Natural Buttes Unit 742-30E	497 FSL - 618 FEL	9S	21E	30	SESE	6,737	6-26-08
UTU-01791	43-047-40222	Natural Buttes Unit 756-6E	1840 FSL - 2317 FWL	10S	21E	6	NESW	6,496	7-3-08
UTU-0129384	~~43-047-50238~~	~~Natural Buttes Unit 757-26E~~	798 FNL - 850 FEL	10S	21E	26	NENE	6,488	7-14-08
UTU-0129384	43-047-40239	Natural Buttes Unit 758-27E	749 FNL - 664 FEL	10S	21E	27	NENE	5,530	7-14-08
UTU-0581	43-047-40217	Natural Buttes Unit 759-29E	1979 FNL - 2034 FWL	9S	21E	29	SENW	6,644	7-2-08
UTU-01197-A-ST	43-047-50683	Natural Buttes Unit 634-12EX	623 FNL - 672 FEL	10S	22E	12	NENE	7,128	8-23-09
ML-3140.5	43-047-50042	Natural Buttes Unit 733-36E	775 FNL - 2134 FEL	9S	20E	36	NWNE	7,050	4-14-08
UTU-01480-ST	43-047-50053	Natural Buttes Unit 744-31E	2515 FSL - 2533 FWL	9S	21E	31	NESW	6,989	6-5-08
ML-22446	43-047-50059	Natural Buttes Unit 749-31E	955 FSL - 489 FEL	9S	21E	31	SESE (LOT 8)	6,901	6-25-08
ML-3142	43-047-50062	Natural Buttes Unit 750-32E	1091 FNL - 1615 FWL	9S	21E	32	NENW	6,635	7-2-08
ML-3142	43-047-50055	Natural Buttes Unit 753-32E	478 FNL - 2066 FEL	9S	21E	32	NWNE	6,562	6-5-08

(1)

PERMITTED WELL LIST

Well Name	API #	Lease #	QQ	Sec	T	R
Natural Buttes Unit 320-6E	43-047-40224	UTU01791	(Lot 6) NWSW	6	10S	21E
Natural Buttes Unit 375-13E	43-047-50029	UTU4485	SWSW	13	10S	20E
Natural Buttes Unit 377-9E	43-047-40073	UTU01791	NWNW	9	10S	21E
Natural Buttes Unit 425-4E	43-047-39427	UTU01393B	NWSW	4	10S	21E
Natural Buttes Unit 440-1E	43-047-39857	UTU02270A	NWSE	1	10S	20E
Natural Buttes Unit 441-12E	43-047-39418	UTU02270A	SENE	12	10S	20E
Natural Buttes Unit 495-31E	43-047-50037	ML22446	(Lot 6) NWSW	31	9S	21E
Natural Buttes Unit 498-13E	43-047-37684	UTU4485	NESE	13	10S	20E
Natural Buttes Unit 507-7E	43-047-40048	UTU02270A	SESW	7	10S	21E
Natural Buttes Unit 515-25E	43-047-50033	UTU6774	NWNE	25	10S	20E
Natural Buttes Unit 517-6E	43-047-40223	UTU01791	(Lot 7) SWSW	6	10S	21E
Natural Buttes Unit 531-8E	43-047-40050	UTU01791	NESW	8	10S	21E
(1) ~~Natural Buttes Unit 532-12E~~	~~43-047-35200~~	UTU02270A	SWNE	12	10S	20E
Natural Buttes Unit 606-35E	43-047-39797	UTU010954A	NWNW	35	9S	22E
Natural Buttes Unit 607-35E	43-047-39307	UTU010954A	SWNW	35	9S	22E
Natural Buttes Unit 609-23E	43-047-39318	UTU01393B	SENE	23	10S	22E
Natural Buttes Unit 610-23E	43-047-39317	UTU01393B	NESE	23	10S	22E
Natural Buttes Unit 612-23E	43-047-39314	UTU01393B	SWSE	23	10S	22E
Natural Buttes Unit 616-5E	43-047-39304	UTU01393B	SWNE	5	10S	21E
Natural Buttes Unit 619-4E	43-047-39446	UTU01393B	SESW	4	10S	21E
Natural Buttes Unit 620-30E	43-047-39309	ML22793	(Lot 2) SWNW	30	10S	21E
Natural Buttes Unit 628-1E	43-047-39311	UTU01198B	SESW	1	10S	22E
Natural Buttes Unit 629-1E	43-047-39312	UTU01198B	NWSE	1	10S	22E
Natural Buttes Unit 630-1E	43-047-39298	UTU01198B	NESE	1	10S	22E
Natural Buttes Unit 631-1E	43-047-39297	UTU01198B	SESE	1	10S	22E
Natural Buttes Unit 649-26E	43-047-39870	UTU472	NWNE	26	10S	22E
Natural Buttes Unit 651-26E	43-047-39871	UTU472	SENE	26	10S	22E
Natural Buttes Unit 652-6E	43-047-39859	UTU01791	SWSE	6	10S	21E
Natural Buttes Unit 656-1E	43-047-39868	UTU01791	NWNE	1	10S	20E
(1) ~~Natural Buttes Unit 657-1E~~	~~43-047-39856~~	UTU01791	(Lot 1) NENE	1	10S	20E
Natural Buttes Unit 659-1E	43-047-39855	UTU01791	SENE	1	10S	20E
Natural Buttes Unit 669-29E	43-047-50030	U01207ST	SWNE	29	9S	22E

Well Name	API #	Lease #	QQ	Sec	T	R
Natural Buttes Unit 673-25E	43-047-50034	UTU6774	SENW	25	10S	20E
Natural Buttes Unit 674-25E	43-047-50035	UTU6774	NENE	25	10S	20E
Natural Buttes Unit 679-26E	43-047-40221	UTU4476	SENW	26	10S	20E
Natural Buttes Unit 681-26E	43-047-40330	UTU4476	NENE	26	10S	20E
Natural Buttes Unit 682-9E	43-047-40075	UTU01791	NENW	9	10S	21E
Natural Buttes Unit 683-9E	43-047-40072	UTU01791	NESW	9	10S	21E
Natural Buttes Unit 730-36E	43-047-50061	ML3140.5	NWNW	36	9S	20E
(1) ~~Natural Buttes Unit 731-36E~~	~~43-047-50061~~	ML3140.5	NENW	36	9S	20E
Natural Buttes Unit 732-36E	43-047-50060	ML3140.5	SWNW	36	9S	20E
Natural Buttes Unit 734-36E	43-047-50065	ML3140.5	NENE	36	9S	20E
Natural Buttes Unit 735-36E	43-047-50039	ML3140.5	SWNE	36	9S	20E
Natural Buttes Unit 736-36E	43-047-50063	ML3140.5	SENE	36	9S	20E
Natural Buttes Unit 743-31E	43-047-50040	UTU01480AST	(Lot 3) NWSW	31	9S	21E
Natural Buttes Unit 745-31E	43-047-50041	ML224446	Lot 4	31	9S	21E
Natural Buttes Unit 746-31E	43-047-50090	UTU01480ST	NWSE	31	9S	21E
Natural Buttes Unit 747-31E	43-047-50049	UTU01480ST	NESE	31	9S	21E
Natural Buttes Unit 748-31E	43-047-50050	ML22446	(Lot 7) SWSE	31	9S	21E
Natural Buttes Unit 751-32E	43-047-50056	ML3412	SWNW	32	9S	21E
Natural Buttes Unit 752-32E	43-047-50051	ML3412	SENW	32	9S	21E
Natural Buttes Unit 754-32E	43-047-50092	ML3412	SWNE	32	9S	21E
Natural Buttes Unit 755-32E	43-047-50054	ML3412	SENE	32	9S	21E
Natural Buttes Unit 761-5E	43-047-50108	UTU01393B	NWSE	5	10S	21E

API Well No: 43047393110000

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: U-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 628-01E

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1116 FSL 2190 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/21/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 10, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/6/2010

RECEIVED May 06, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047393110000

API: 43047393110000
Well Name: NBU 628-01E
Location: 1116 FSL 2190 FWL QTR SESW SEC 01 TWNP 100S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 5/21/2007

The undersigned as owner with legal rights to drill on the property as permitted above, 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.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **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?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 5/6/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: May 10, 2010

By: Dustin Doucet

RECEIVED May 06, 2010

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 12 2011
BLM

FORM APPROVED
OMB NO. 1004-0135
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 reverse side.

5. Lease Serial No.
UTU010953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU63047A

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

8. Well Name and No.
NBU 628-01E

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE LP
Contact: GINA T BECKER
E-Mail: GINA.BECKER@ANADARKO.COM

9. API Well No.
43-047-39311-00-X1

3a. Address
1368 SOUTH 1200 EAST
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 720-929-6086
Fx: 720-929-7086

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 1 T10S R22E SESW 1116FSL 2190FWL

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK 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 to Original PD
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, L.P. would like to apply for a APD extension. Nothing has changed since the original approval (January 12, 2009).

RECEIVED
MAR 14 2011
DIV. OF OIL, GAS & MINING

VERNAL FIELD OFFICE
FEB 02 2011
ENG. JD
GEOL.
E.S.
PET.
RECL.

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #100358 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/12/2011 (11RRH0840SE)

Name *(Printed/Typed)* GINA T BECKER — Title REGULATORY ANALYST II

Signature (Electronic Submission) — Date 01/11/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title **Assistant Field Manager Lands & Mineral Resources** — Date 2/7/2011

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 **VERNAL FIELD 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.

UDOGM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent
APD Extension

Lease: UTU-10953
Well: NBU 628-01E
Location: SESW Sec 1-T10S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 1/12/13.

2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406.

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: U-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 628-01E

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1116 FSL 2190 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/21/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 04/14/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 4/7/2011

RECEIVED Apr. 07, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047393110000

API: 43047393110000
Well Name: NBU 628-01E
Location: 1116 FSL 2190 FWL QTR SESW SEC 01 TWNP 100S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 5/21/2007

The undersigned as owner with legal rights to drill on the property as permitted above, 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.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **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?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Gina Becker **Date:** 4/7/2011
Title: Regulatory Analyst II **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Apr. 07, 2011

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
U-010953

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-1N1BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047393110000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 EXT

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/15/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	✓ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator is requesting the approval of the following changes to the originally approved APD: 1. Change the Well Name = from Natural Buttes Unit 628-01E to NBU 1022-1N1BS 2. Surface & Bottom Hole Location Change (New Plat is Attached) a.From = 1116 FSL/ 2190 FWL To = 1258 FSL/ 2094? FWL 3. Proposed Total Depth (New Drilling Program Attached) 4. Surface Hole Size and Casing Grade (New Wellbore Diagram Attached) 5. Change to a Directional Well (Directional Drilling Survey Attached) 6. Surface Use Plan of Operation (Updated Plan Attached) 7. Updated Topos & Directions (Attached)

Approved by the Utah Division of Oil, Gas and Mining

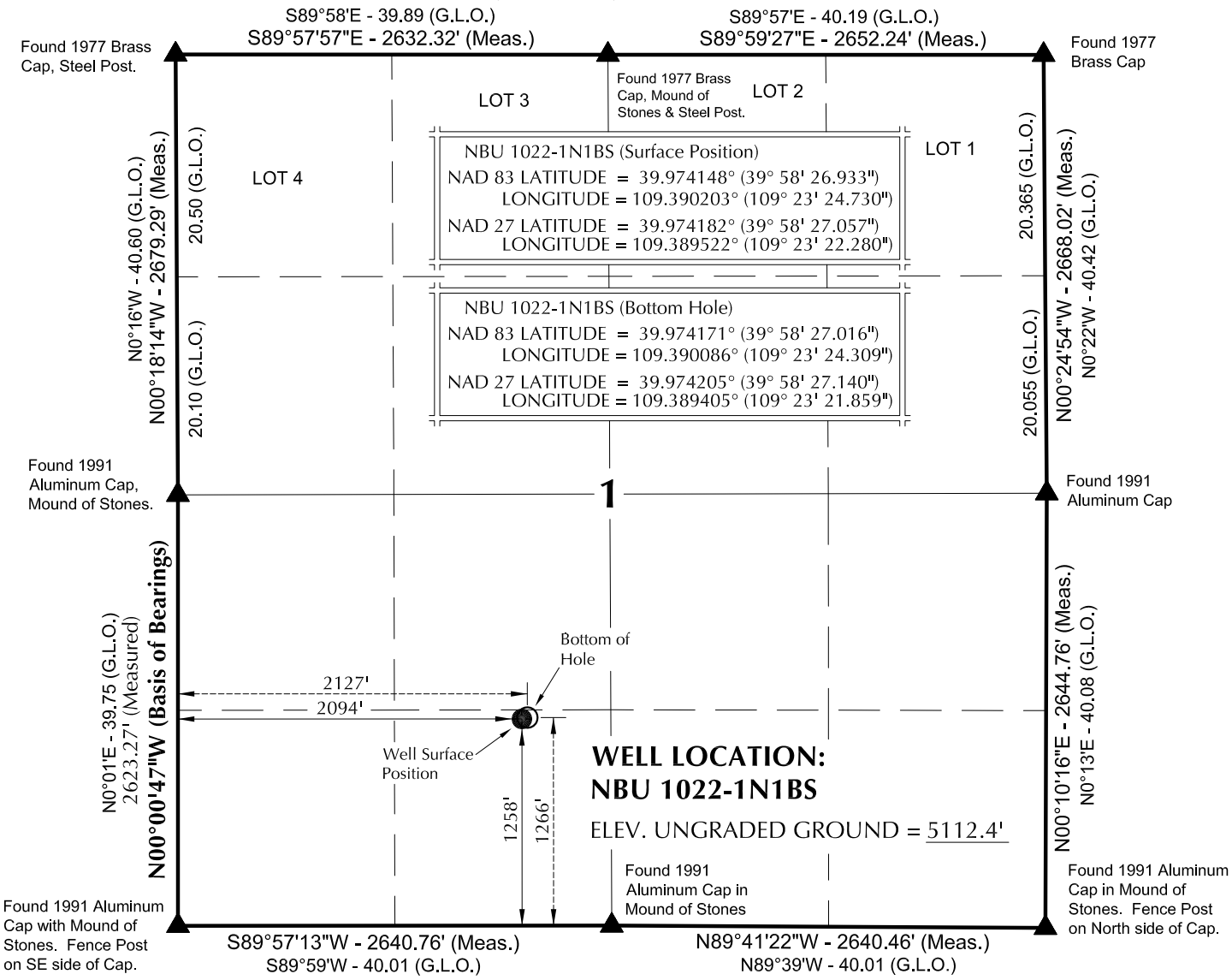
Date: January 09, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		1/6/2012

RECEIVED: Jan. 06, 2012

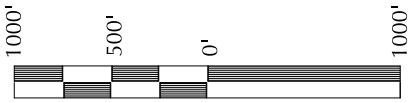
T10S, R22E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N75°34'54"E 33.83' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE 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
No.6028691 JOHN R SLAUGH
STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH 2-24-11

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-1N

NBU 1022-1N1BS
WELL PLAT
1266' FSL, 2127' FWL (Bottom Hole)
SE ¼ SW ¼ OF SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 02-17-11	SURVEYED BY: R.Y.	SHEET NO: 7
DATE DRAWN: 02-22-11	DRAWN BY: E.M.S.	7 OF 19
SCALE: 1" = 1000'	Date Last Revised:	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-1N
WELLS – NBU 1022-1N4CS, NBU 1022-1N4BS,
NBU 1022-1N1CS, NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
Section 1, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 4.4 miles to an existing access road to the southwest. Exit right and proceed along the existing access road in a southwesterly, then northwesterly direction approximately 0.3 miles to the proposed access road. Follow road flags in a northeasterly direction approximately 150 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 47.0 miles in a southerly direction.

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1N1BS

Surface: 1258 FSL / 2094 FWL SESW
BHL: 1266 FSL / 2127 FWL SESW

Section 1 T10S R22E

Uintah County, Utah
Mineral Lease: UTU-010953

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1120	
Birds Nest	1381	Water
Mahogany	1747	Water
Wasatch	4151	Gas
Mesaverde	6428	Gas
MVU2	7310	Gas
MVL1	7901	Gas
TVD	8526	
TD	8527	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8526' TVD, approximately equals 5,457 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,569 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KM well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

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on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

RECEIVED: Jan. 06, 2012

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	October 6, 2011	
WELL NAME	**NBU 1022-1N1BS**		TD	8,526' TVD	8,527' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5112.4
SURFACE LOCATION	SESW 1258 FSL	2094 FWL	Sec 1	T 10S	R 22E
	Latitude: 39.974148	Longitude: -109.390203		NAD 83	
BTM HOLE LOCATION	SESW 1266 FSL	2127 FWL	Sec 1	T 10S	R 22E
	Latitude: 39.974171	Longitude: -109.390086		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11'	8-5/8", 28#, IJ-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @ 1,120'

Top of Birds Nest @ 1,381'

Mahogany @ 1,747'

Preset f/ GL @ 2,200' TVD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @ 4,151'

Mud logging program TBD

Cased hole logging program from TD - surf csg

Mverde @ 6,428' TVD

MVU2 @ 7,310' TVD

MVU1 @ 7,901' TVD

Max anticipated Mud required 12.5 ppg

TD @ 8,526' TVD / 8,527' MD

7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg

RECEIVED: Jan. 06, 2012

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,200	28.00	IJ-55	LTC	2.46	1.83	6.45	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.15		3.34
	4-1/2"	5,000	to	8,527'	11.60	I-80	LTC	1.11	1.15	6.74	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,700'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,647'	Premium Lite II +0.25 pps	270	20%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,880'	50/50 Poz/G + 10% salt + 2% gel	1,150	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

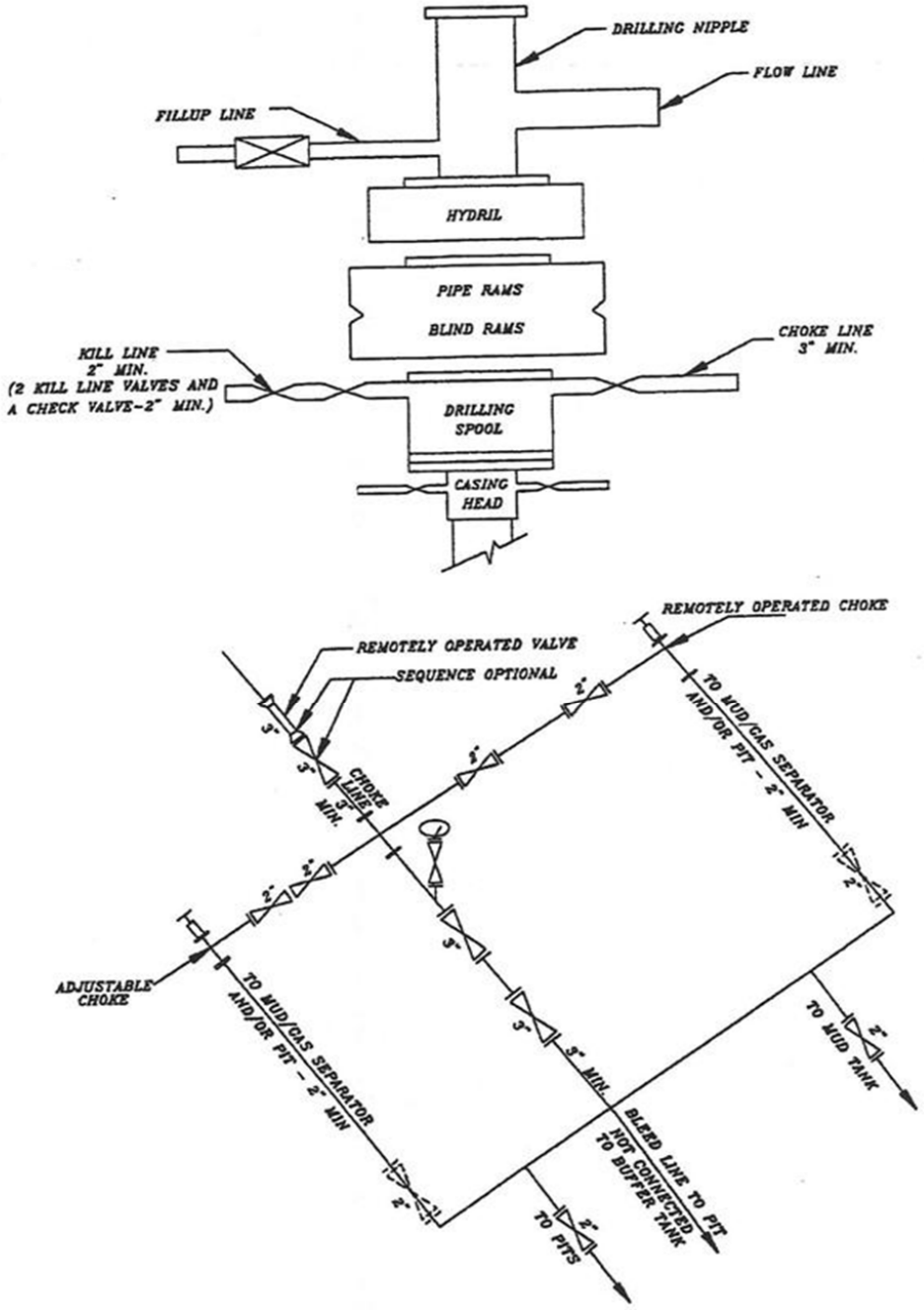
Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: Jan. 06, 2012

EXHIBIT A
NBU 1022-1N1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

RECEIVED: Jan. 06, 2012

Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 1022-1N PAD
Well: NBU 1022-1N1BS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52310.4snT
Dip Angle: 65.86°
Date: 08/23/2011
Model: IGRF2010

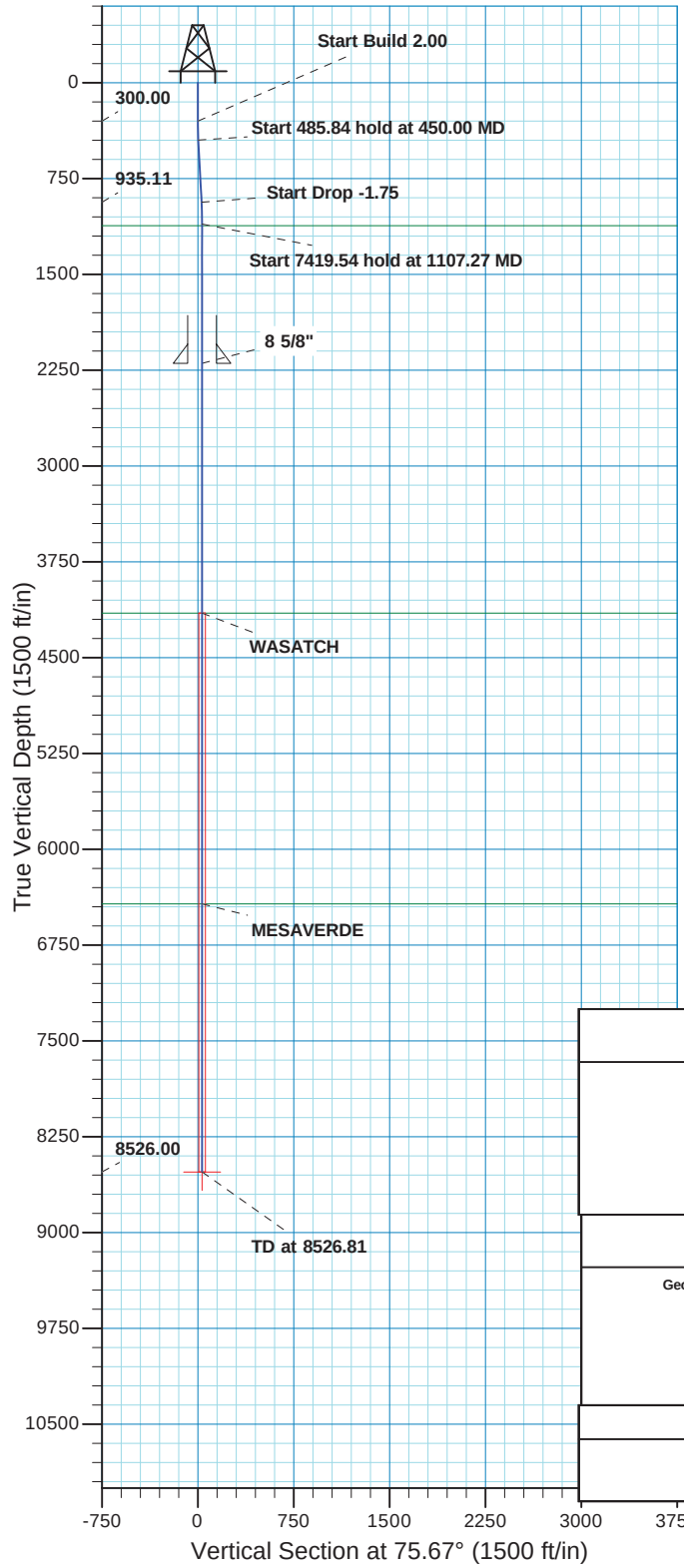
WELL DETAILS: NBU 1022-1N1BS

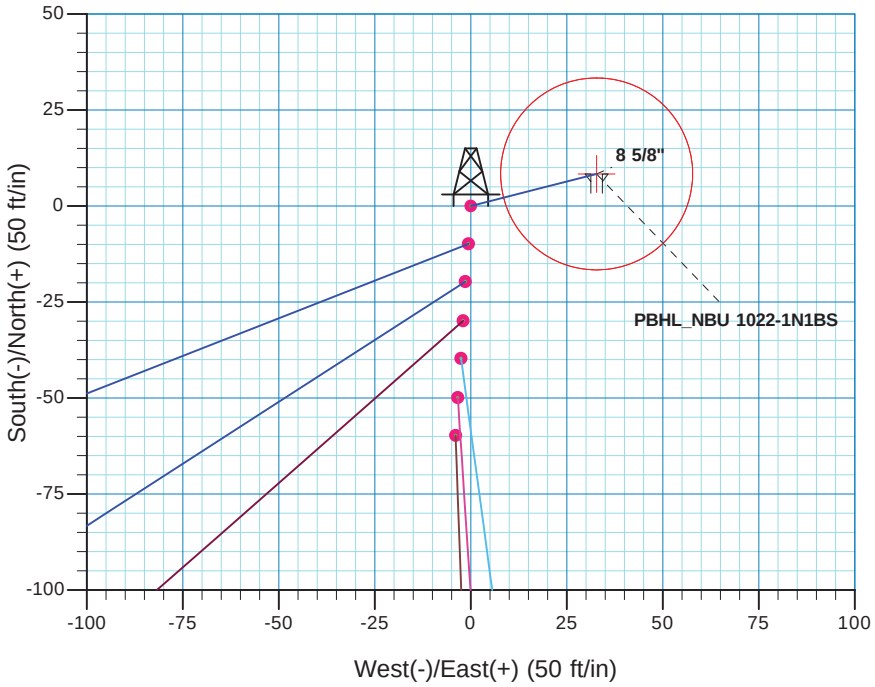
GL 5111 & KB 4
@ 5115.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14520717.70	2091624.72	39° 58' 27.055 N	109° 23' 22.279 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8526.00	8.38	32.79	14520726.67	2091657.35	39° 58' 27.138 N	109° 23' 21.858 W	Circle (Radius: 25.00)
- plan hits target center								





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	75.67	449.93	0.97	3.80	2.00	75.67	3.93	
935.84	3.00	75.67	935.11	7.27	28.44	0.00	0.00	29.35	
1107.27	0.00	0.00	1106.46	8.38	32.79	1.75	180.00	33.84	
8526.81	0.00	0.00	8526.00	8.38	32.79	0.00	0.00	33.84	PBHL_NBU 1022-1N1BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 1 T10S R22W
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1120.00	1120.81	GREEN RIVER
4151.00	4151.81	WASATCH
6428.00	6428.81	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2197.00	2197.81	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 1022-1N1BS/OH)

Created By: RobertScott Date: 12:38, August 23 2011

REC

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-1N PAD
NBU 1022-1N1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

23 August, 2011

Anadarko Petroleum Corporation

RECEIVED: Jan. 06, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Site:	NBU 1022-1N PAD	**North Reference:**	True
Well:	NBU 1022-1N1BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 1022-1N PAD, SECTION 1 T10S R22W

Site Position:		**Northing:**	14,520,707.86 usft	**Latitude:**	39° 58' 26.958 N
From:	Lat/Long	**Easting:**	2,091,624.33 usft	**Longitude:**	109° 23' 22.286 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.03 °

Well NBU 1022-1N1BS, 1258 FSL 2094 FWL

Well Position	**+N/-S**	9.83 ft	**Northing:**	14,520,717.70 usft	**Latitude:**	39° 58' 27.055 N
	+E/-W	0.56 ft	**Easting:**	2,091,624.71 usft	**Longitude:**	109° 23' 22.279 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,111.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/23/11	11.00	65.86	52,310

Design PLAN #1 PRELIMINARY

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	75.67

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	75.67	449.93	0.97	3.80	2.00	2.00	0.00	75.67	
935.84	3.00	75.67	935.11	7.27	28.44	0.00	0.00	0.00	0.00	
1,107.27	0.00	0.00	1,106.46	8.38	32.79	1.75	-1.75	0.00	180.00	
8,526.81	0.00	0.00	8,526.00	8.38	32.79	0.00	0.00	0.00	0.00	PBHL_NBU 1022-1N

RECEIVED: Jan. 06, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Site:	NBU 1022-1N PAD	**North Reference:**	True
Well:	NBU 1022-1N1BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	75.67	399.98	0.43	1.69	1.75	2.00	2.00	0.00
450.00	3.00	75.67	449.93	0.97	3.80	3.93	2.00	2.00	0.00
Start 485.84 hold at 450.00 MD									
500.00	3.00	75.67	499.86	1.62	6.34	6.54	0.00	0.00	0.00
600.00	3.00	75.67	599.73	2.92	11.41	11.78	0.00	0.00	0.00
700.00	3.00	75.67	699.59	4.21	16.48	17.01	0.00	0.00	0.00
800.00	3.00	75.67	799.45	5.51	21.55	22.24	0.00	0.00	0.00
900.00	3.00	75.67	899.31	6.80	26.62	27.48	0.00	0.00	0.00
935.84	3.00	75.67	935.11	7.27	28.44	29.35	0.00	0.00	0.00
Start Drop -1.75									
1,000.00	1.88	75.67	999.21	7.94	31.08	32.08	1.75	-1.75	0.00
1,100.00	0.13	75.67	1,099.19	8.37	32.78	33.83	1.75	-1.75	0.00
1,107.27	0.00	0.00	1,106.46	8.38	32.79	33.84	1.75	-1.75	0.00
Start 7419.54 hold at 1107.27 MD									
1,120.81	0.00	0.00	1,120.00	8.38	32.79	33.84	0.00	0.00	0.00
GREEN RIVER									
1,200.00	0.00	0.00	1,199.19	8.38	32.79	33.84	0.00	0.00	0.00
1,300.00	0.00	0.00	1,299.19	8.38	32.79	33.84	0.00	0.00	0.00
1,400.00	0.00	0.00	1,399.19	8.38	32.79	33.84	0.00	0.00	0.00
1,500.00	0.00	0.00	1,499.19	8.38	32.79	33.84	0.00	0.00	0.00
1,600.00	0.00	0.00	1,599.19	8.38	32.79	33.84	0.00	0.00	0.00
1,700.00	0.00	0.00	1,699.19	8.38	32.79	33.84	0.00	0.00	0.00
1,800.00	0.00	0.00	1,799.19	8.38	32.79	33.84	0.00	0.00	0.00
1,900.00	0.00	0.00	1,899.19	8.38	32.79	33.84	0.00	0.00	0.00
2,000.00	0.00	0.00	1,999.19	8.38	32.79	33.84	0.00	0.00	0.00
2,100.00	0.00	0.00	2,099.19	8.38	32.79	33.84	0.00	0.00	0.00
2,197.81	0.00	0.00	2,197.00	8.38	32.79	33.84	0.00	0.00	0.00
8 5/8"									
2,200.00	0.00	0.00	2,199.19	8.38	32.79	33.84	0.00	0.00	0.00
2,300.00	0.00	0.00	2,299.19	8.38	32.79	33.84	0.00	0.00	0.00
2,400.00	0.00	0.00	2,399.19	8.38	32.79	33.84	0.00	0.00	0.00
2,500.00	0.00	0.00	2,499.19	8.38	32.79	33.84	0.00	0.00	0.00
2,600.00	0.00	0.00	2,599.19	8.38	32.79	33.84	0.00	0.00	0.00
2,700.00	0.00	0.00	2,699.19	8.38	32.79	33.84	0.00	0.00	0.00
2,800.00	0.00	0.00	2,799.19	8.38	32.79	33.84	0.00	0.00	0.00
2,900.00	0.00	0.00	2,899.19	8.38	32.79	33.84	0.00	0.00	0.00
3,000.00	0.00	0.00	2,999.19	8.38	32.79	33.84	0.00	0.00	0.00
3,100.00	0.00	0.00	3,099.19	8.38	32.79	33.84	0.00	0.00	0.00
3,200.00	0.00	0.00	3,199.19	8.38	32.79	33.84	0.00	0.00	0.00
3,300.00	0.00	0.00	3,299.19	8.38	32.79	33.84	0.00	0.00	0.00
3,400.00	0.00	0.00	3,399.19	8.38	32.79	33.84	0.00	0.00	0.00
3,500.00	0.00	0.00	3,499.19	8.38	32.79	33.84	0.00	0.00	0.00
3,600.00	0.00	0.00	3,599.19	8.38	32.79	33.84	0.00	0.00	0.00
3,700.00	0.00	0.00	3,699.19	8.38	32.79	33.84	0.00	0.00	0.00
3,800.00	0.00	0.00	3,799.19	8.38	32.79	33.84	0.00	0.00	0.00
3,900.00	0.00	0.00	3,899.19	8.38	32.79	33.84	0.00	0.00	0.00

RECEIVED: Jan. 06, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Site:	NBU 1022-1N PAD	**North Reference:**	True
Well:	NBU 1022-1N1BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	0.00	0.00	3,999.19	8.38	32.79	33.84	0.00	0.00	0.00
4,100.00	0.00	0.00	4,099.19	8.38	32.79	33.84	0.00	0.00	0.00
4,151.81	0.00	0.00	4,151.00	8.38	32.79	33.84	0.00	0.00	0.00
WASATCH									
4,200.00	0.00	0.00	4,199.19	8.38	32.79	33.84	0.00	0.00	0.00
4,300.00	0.00	0.00	4,299.19	8.38	32.79	33.84	0.00	0.00	0.00
4,400.00	0.00	0.00	4,399.19	8.38	32.79	33.84	0.00	0.00	0.00
4,500.00	0.00	0.00	4,499.19	8.38	32.79	33.84	0.00	0.00	0.00
4,600.00	0.00	0.00	4,599.19	8.38	32.79	33.84	0.00	0.00	0.00
4,700.00	0.00	0.00	4,699.19	8.38	32.79	33.84	0.00	0.00	0.00
4,800.00	0.00	0.00	4,799.19	8.38	32.79	33.84	0.00	0.00	0.00
4,900.00	0.00	0.00	4,899.19	8.38	32.79	33.84	0.00	0.00	0.00
5,000.00	0.00	0.00	4,999.19	8.38	32.79	33.84	0.00	0.00	0.00
5,100.00	0.00	0.00	5,099.19	8.38	32.79	33.84	0.00	0.00	0.00
5,200.00	0.00	0.00	5,199.19	8.38	32.79	33.84	0.00	0.00	0.00
5,300.00	0.00	0.00	5,299.19	8.38	32.79	33.84	0.00	0.00	0.00
5,400.00	0.00	0.00	5,399.19	8.38	32.79	33.84	0.00	0.00	0.00
5,500.00	0.00	0.00	5,499.19	8.38	32.79	33.84	0.00	0.00	0.00
5,600.00	0.00	0.00	5,599.19	8.38	32.79	33.84	0.00	0.00	0.00
5,700.00	0.00	0.00	5,699.19	8.38	32.79	33.84	0.00	0.00	0.00
5,800.00	0.00	0.00	5,799.19	8.38	32.79	33.84	0.00	0.00	0.00
5,900.00	0.00	0.00	5,899.19	8.38	32.79	33.84	0.00	0.00	0.00
6,000.00	0.00	0.00	5,999.19	8.38	32.79	33.84	0.00	0.00	0.00
6,100.00	0.00	0.00	6,099.19	8.38	32.79	33.84	0.00	0.00	0.00
6,200.00	0.00	0.00	6,199.19	8.38	32.79	33.84	0.00	0.00	0.00
6,300.00	0.00	0.00	6,299.19	8.38	32.79	33.84	0.00	0.00	0.00
6,400.00	0.00	0.00	6,399.19	8.38	32.79	33.84	0.00	0.00	0.00
6,428.81	0.00	0.00	6,428.00	8.38	32.79	33.84	0.00	0.00	0.00
MESAVERDE									
6,500.00	0.00	0.00	6,499.19	8.38	32.79	33.84	0.00	0.00	0.00
6,600.00	0.00	0.00	6,599.19	8.38	32.79	33.84	0.00	0.00	0.00
6,700.00	0.00	0.00	6,699.19	8.38	32.79	33.84	0.00	0.00	0.00
6,800.00	0.00	0.00	6,799.19	8.38	32.79	33.84	0.00	0.00	0.00
6,900.00	0.00	0.00	6,899.19	8.38	32.79	33.84	0.00	0.00	0.00
7,000.00	0.00	0.00	6,999.19	8.38	32.79	33.84	0.00	0.00	0.00
7,100.00	0.00	0.00	7,099.19	8.38	32.79	33.84	0.00	0.00	0.00
7,200.00	0.00	0.00	7,199.19	8.38	32.79	33.84	0.00	0.00	0.00
7,300.00	0.00	0.00	7,299.19	8.38	32.79	33.84	0.00	0.00	0.00
7,400.00	0.00	0.00	7,399.19	8.38	32.79	33.84	0.00	0.00	0.00
7,500.00	0.00	0.00	7,499.19	8.38	32.79	33.84	0.00	0.00	0.00
7,600.00	0.00	0.00	7,599.19	8.38	32.79	33.84	0.00	0.00	0.00
7,700.00	0.00	0.00	7,699.19	8.38	32.79	33.84	0.00	0.00	0.00
7,800.00	0.00	0.00	7,799.19	8.38	32.79	33.84	0.00	0.00	0.00
7,900.00	0.00	0.00	7,899.19	8.38	32.79	33.84	0.00	0.00	0.00
8,000.00	0.00	0.00	7,999.19	8.38	32.79	33.84	0.00	0.00	0.00
8,100.00	0.00	0.00	8,099.19	8.38	32.79	33.84	0.00	0.00	0.00
8,200.00	0.00	0.00	8,199.19	8.38	32.79	33.84	0.00	0.00	0.00
8,300.00	0.00	0.00	8,299.19	8.38	32.79	33.84	0.00	0.00	0.00
8,400.00	0.00	0.00	8,399.19	8.38	32.79	33.84	0.00	0.00	0.00
8,500.00	0.00	0.00	8,499.19	8.38	32.79	33.84	0.00	0.00	0.00
8,526.81	0.00	0.00	8,526.00	8.38	32.79	33.84	0.00	0.00	0.00
PBHL_NBU 1022-1N1BS									

RECEIVED: Jan. 06, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5111 & KB 4 @ 5115.00ft (ASSUMED)
Site:	NBU 1022-1N PAD	**North Reference:**	True
Well:	NBU 1022-1N1BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-1N1B - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,526.00	8.38	32.79	14,520,726.67	2,091,657.34	39° 58' 27.138 N	109° 23' 21.858 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,197.81	2,197.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,120.81	1,120.00	GREEN RIVER			
4,151.81	4,151.00	WASATCH			
6,428.81	6,428.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	0.97	3.80	Start 485.84 hold at 450.00 MD
935.84	935.11	7.27	28.44	Start Drop -1.75
1,107.27	1,106.46	8.38	32.79	Start 7419.54 hold at 1107.27 MD
8,526.81	8,526.00	8.38	32.79	TD at 8526.81

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1N Pad

API #	**NBU 1022-1M1CS**			
	Surface:	1248 FSL / 2094 FWL	SESW	Lot
	BHL:	748 FSL / 819 FWL	SWSW	Lot
API #	**NBU 1022-1M4BS**			
	Surface:	1238 FSL / 2093 FWL	SESW	Lot
	BHL:	416 FSL / 819 FWL	SWSW	Lot
API #	**NBU 1022-1M4CS**			
	Surface:	1228 FSL / 2092 FWL	SESW	Lot
	BHL:	98 FSL / 810 FWL	SWSW	Lot
API #4304739311	**NBU 1022-1N1BS (FKA NBU 628-01E)**			
	Surface:	1258 FSL / 2094 FWL	SESW	Lot
	BHL:	1266 FSL / 2127 FWL	SESW	Lot
API #	**NBU 1022-1N1CS**			
	Surface:	1218 FSL / 2092 FWL	SESW	Lot
	BHL:	914 FSL / 2133 FWL	SESW	Lot
API #	**NBU 1022-1N4BS**			
	Surface:	1208 FSL / 2091 FWL	SESW	Lot
	BHL:	581 FSL / 2132 FWL	SESW	Lot
API #	**NBU 1022-1N4CS**			
	Surface:	1198 FSL / 2090 FWL	SESW	Lot
	BHL:	262 FSL / 2124 FWL	SESW	Lot

An Application for Permit to Drill (APD) was approved by the BLM on January 12, 2009 for the NBU 628-01E well location. A Sundry Notice under separate cover will be submitted to change the location and the well name to the NBU 1022-1N1BS.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

RECEIVED: Jan. 06, 2012

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

RECEIVED: Jan. 06, 2012

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±150' (0.03 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, new access road from the edge of the pad to the existing road. This road will be used concurrently with the NBU 1022-1K Pad. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent).

Kerr-McGee proposes to install gas gathering lines to tie into a previously approved buried gas pipeline covered under ROW UTU-88692. The total of this proposed gas gathering from the meter to the approved 16" gas pipeline is ±2,190' and the individual segments are broken up as follows:

RECEIVED: Jan. 06, 2012

The following segments are "onlease", no ROW needed.

±215' (0.04 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±20' (0.01 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 10" buried gas pipeline at the NBU 1022-1K Pad intersection. Please refer to Exhibit A, Line 15.

±495' (0.1 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, BLM surface, New 10" buried gas gathering pipeline from the NBU 1022-1K Pad intersection to the SE corner of the NBU 1022-1N pad. This pipeline will be used concurrently with the NBU 1022-1K Pad. Please refer to Exhibit A, Line 13.

±205' (0.04 miles) – Section 1 T10S R22E (SE/4 SW/4) – On-lease UTU010953, BLM surface, New 10" buried gas gathering pipeline from the SE corner of the NBU 1022-1N Pad traveling cross country to the existing road to the south. Please refer to Exhibit A, Line 12. This pipeline will be used concurrently with the NBU 1022-1K Pad.

±1,225' (0.2 miles) – Section 1 T10S R22E (S/2) – On-lease UTU010953 and UTU011336, BLM surface, New 10" buried gas gathering pipeline from the existing road to the south of the NBU 1022-1N Pad to the tie-in at the previously approved 16" gas gathering pipeline. Please refer to Exhibit A, Line 11. This pipeline will be used concurrently with the NBU 1022-1K Pad.

Kerr-McGee proposes to install liquid gathering lines to tie into a previously approved buried liquid pipeline covered under ROW UTU-88691. The total of this proposed liquid gathering from the separator to the approved liquid pipeline is ±2,190' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±215' (0.04 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±20' (0.01 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the NBU 1022-1K Pad intersection. Please refer to Exhibit B, Line 15.

±495' (0.1 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-1K Pad intersection to the SE corner of the NBU 1022-1N pad. This pipeline will be used concurrently with the NBU 1022-1K Pad. Please refer to Exhibit B, Line 13.

±205' (0.04 miles) – Section 1 T10S R22E (SE/4 SW/4) – On-lease UTU010953, BLM surface, New 6" buried liquid gathering pipeline from the SE corner of the NBU 1022-1N Pad traveling cross country to the existing road to the south. Please refer to Exhibit B, Line 12. This pipeline will be used concurrently with the NBU 1022-1K Pad.

±1,225' (0.2 miles) – Section 1 T10S R22E (S/2) – On-lease UTU010953 and UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the existing road to the south of the NBU 1022-1N Pad to the tie-in at the previously approved liquid gathering pipeline. Please refer to Exhibit B, Line 11. This pipeline will be used concurrently with the NBU 1022-1K Pad.

Pipeline Gathering Construction

RECEIVED: Jan. 06, 2012

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route’s intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM’s Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage

crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will

RECEIVED: Jan. 06, 2012

be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6” aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac

RECEIVED: Jan. 06, 2012

operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

RECEIVED: Jan. 06, 2012

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

RECEIVED: Jan. 06, 2012

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

RECEIVED: Jan. 06, 2012

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification

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will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

RECEIVED: Jan. 06, 2012

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	**Pure Live Seed lbs/acre**
Indian Ricegrass (Nezpar)	3
Sandberg bluegrass	0.75
Bottlebrush squirreltail	1
Great Basin Wildrye	0.5
Crested wheatgrass (Ephraim)	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed

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Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed in May 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-145.

A paleontological reconnaissance survey was completed in June, 2010 and July, 2011 by SWCA Environmental Consultants. For additional details please refer to reports UT11-14314-30, UT11-14314-32 and UT11-14314-33.

Biological field survey was completed in May and June of 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to reports GCI-517 and GCI 559.

Proposed Action Annual Emissions Tables:

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Table 1: Proposed Action Annual Emissions (tons/year)[1]

Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO_2	0.005	0.0043	0.0093
PM_{10}	1.7	0.11	1.81
$PM_{2.5}$	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

[1] Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison

Species	Production Emissions	2012 Uintah Basin	Proposed Action
NOx	27.44	16,547	0.17%
VOC	35	127,495	0.03%

[a] http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html Uintah Basin Data

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M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

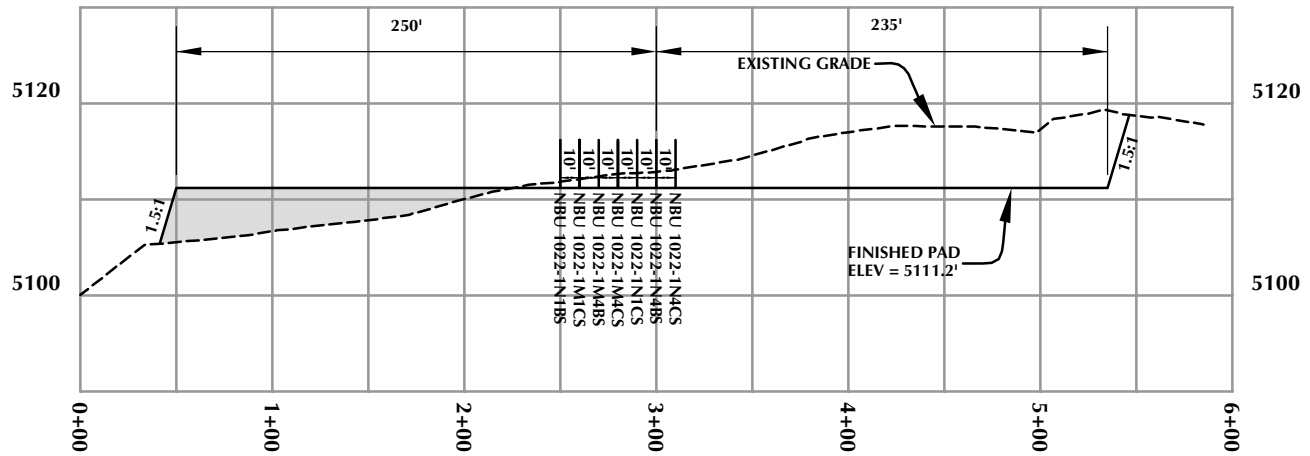
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

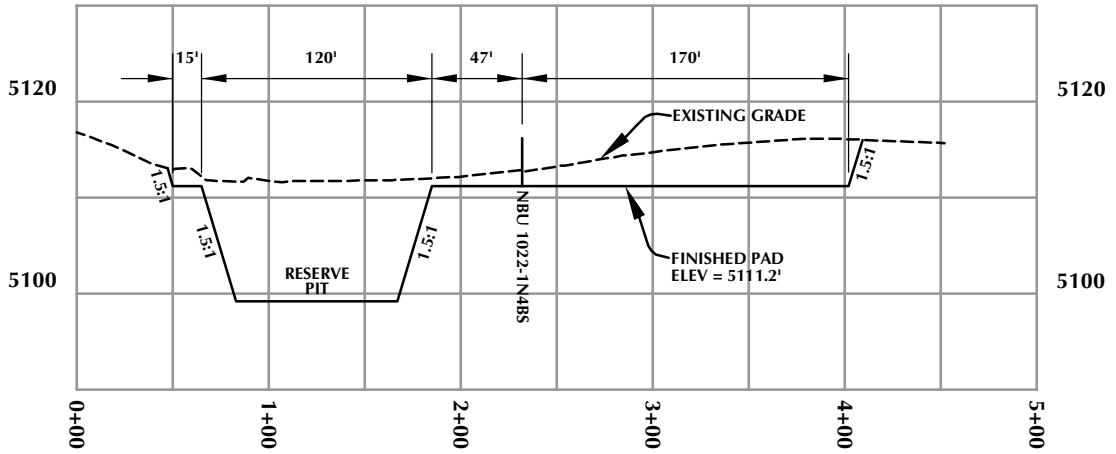
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and 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 operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

October 11, 2011
Date



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1N

WELL PAD - CROSS SECTIONS
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 5/13/11 | SHEET NO: 10 10 OF 19
REVISED:

K:\ANADARKO\2010\2010_39_NBU_FOCUS_SEC_1-1022\DWGS\NBU 1022-1N\1022-1N_New.dwg, 5/26/2011 10:17:39 AM, tiffany

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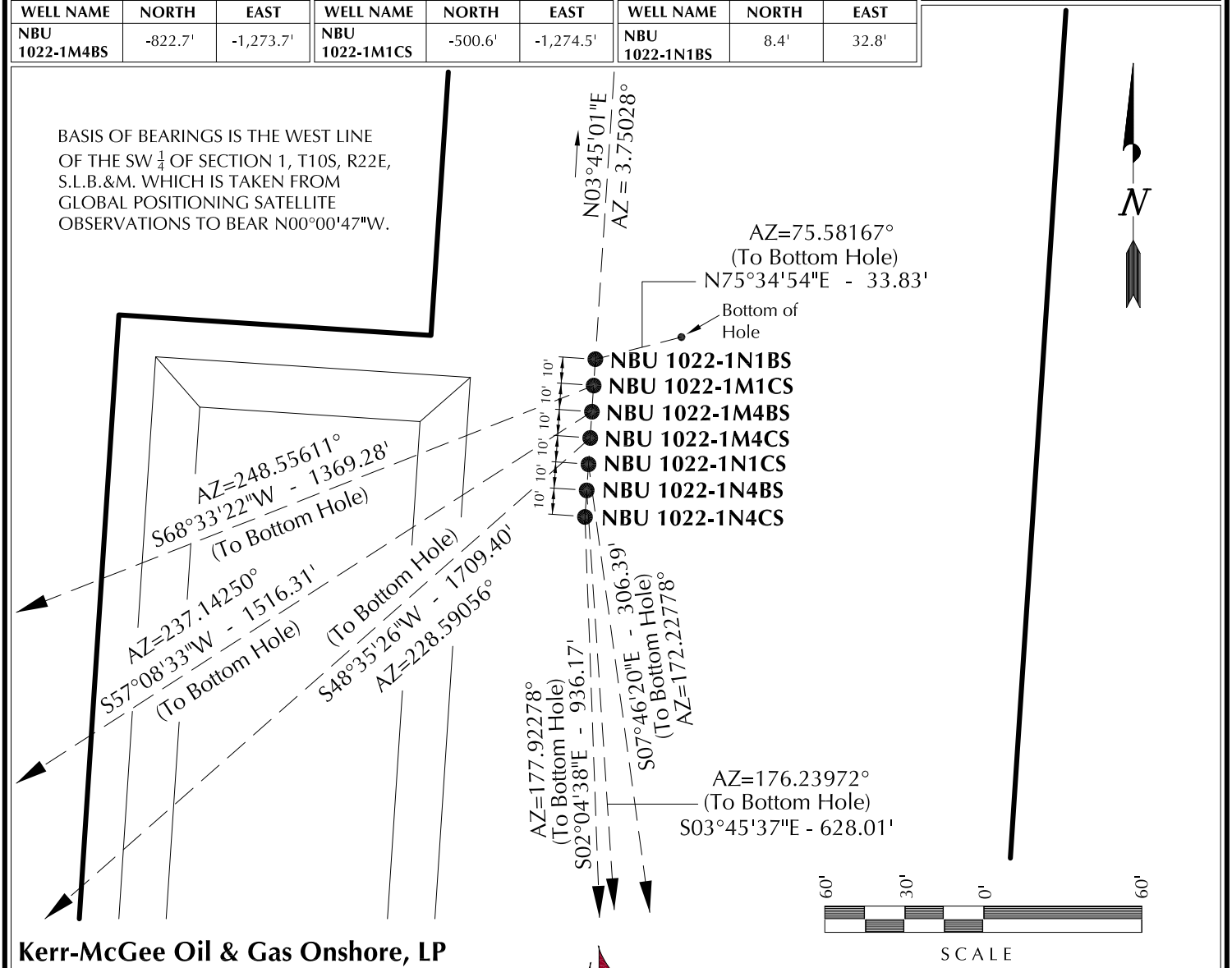
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 1022-1N4CS	39°58'26.340" 39.973983°	109°23'24.781" 109.390217°	39°58'26.464" 39.974018°	109°23'22.331" 109.389536°	1198' FSL 2090' FWL	39°58'17.097" 39.971416°	109°23'24.355" 109.390099°	39°58'17.220" 39.971450°	109°23'21.905" 109.389418°	262' FSL 2124' FWL
NBU 1022-1N4BS	39°58'26.440" 39.974011°	109°23'24.773" 109.390215°	39°58'26.564" 39.974045°	109°23'22.322" 109.389534°	1208' FSL 2091' FWL	39°58'20.249" 39.972291°	109°23'24.250" 109.390070°	39°58'20.372" 39.972326°	109°23'21.800" 109.389389°	581' FSL 2132' FWL
NBU 1022-1N1CS	39°58'26.538" 39.974038°	109°23'24.764" 109.390212°	39°58'26.662" 39.974073°	109°23'22.313" 109.389531°	1218' FSL 2092' FWL	39°58'23.539" 39.973205°	109°23'24.235" 109.390065°	39°58'23.662" 39.973239°	109°23'21.784" 109.389385°	914' FSL 2133' FWL
NBU 1022-1M4CS	39°58'26.637" 39.974066°	109°23'24.755" 109.390210°	39°58'26.760" 39.974100°	109°23'22.304" 109.389529°	1228' FSL 2092' FWL	39°58'15.476" 39.970966°	109°23'41.230" 109.394786°	39°58'15.600" 39.971000°	109°23'38.779" 109.394105°	98' FSL 810' FWL
NBU 1022-1M4BS	39°58'26.736" 39.974093°	109°23'24.747" 109.390208°	39°58'26.860" 39.974128°	109°23'22.297" 109.389527°	1238' FSL 2093' FWL	39°58'18.618" 39.971838°	109°23'41.112" 109.394753°	39°58'18.742" 39.971873°	109°23'38.661" 109.394072°	416' FSL 819' FWL
NBU 1022-1M1CS	39°58'26.834" 39.974121°	109°23'24.738" 109.390205°	39°58'26.958" 39.974155°	109°23'22.288" 109.389524°	1248' FSL 2094' FWL	39°58'21.898" 39.972750°	109°23'41.110" 109.394753°	39°58'22.022" 39.972784°	109°23'38.658" 109.394072°	748' FSL 819' FWL
NBU 1022-1N1BS	39°58'26.933" 39.974148°	109°23'24.730" 109.390203°	39°58'27.057" 39.974182°	109°23'22.280" 109.389522°	1258' FSL 2094' FWL	39°58'27.016" 39.974171°	109°23'24.309" 109.390086°	39°58'27.140" 39.974205°	109°23'21.859" 109.389405°	1266' FSL 2127' FWL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST
NBU 1022-1N4CS	-935.6'	33.9
NBU 1022-1N4BS	-626.7'	41.2'
NBU 1022-1N1CS	-303.6'	41.4'
NBU 1022-1M4CS	-1,130.7'	-1,282.1'
NBU 1022-1M4BS	-822.7'	-1,273.7'
NBU 1022-1M1CS	-500.6'	-1,274.5'
NBU 1022-1N1BS	8.4'	32.8'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-1N4CS, NBU 1022-1N4BS, NBU 1022-1N1CS, NBU 1022-1M4CS, NBU 1022-1M4BS, NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 02-17-11	SURVEYED BY: R.Y.	SHEET NO: 8
DATE DRAWN: 02-22-11	DRAWN BY: E.M.S.	8 OF 19
SCALE: 1" = 60'	Date Last Revised:	

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PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

EXISTING ACCESS ROAD

PROPOSED ACCESS ROAD

6" GAS LINE
6" (MAX.) LIQUID LINE

10" GAS LINE
6" (MAX.) LIQUID LINE

TOPSOIL STOCKPILE

RESERVE PIT & EXCESS CUT STOCKPILE

RESERVE PIT
12' DEPTH
SLOPE 1.5:1

NBU 1022-1N1BS
NBU 1022-1M1CS
NBU 1022-1M4BS
NBU 1022-1M4CS
NBU 1022-1N1CS
NBU 1022-1N4BS
NBU 1022-1N4CS

N75°34'54"E - 33.83'
(TO BOTTOM HOLE)

S68°33'22"W - 1369.28'
(TO BOTTOM HOLE)

S57°08'33"W - 1516.31'
(TO BOTTOM HOLE)

S48°35'26"W - 1709.40'
(TO BOTTOM HOLE)

S07°46'20"E - 306.39'
(TO BOTTOM HOLE)

S03°45'37"E - 628.01'
(TO BOTTOM HOLE)

S02°04'38"E - 936.17'
(TO BOTTOM HOLE)

63' 170' 195' 200' 250' 119' 15' 120' 55' 260' 235' 47' 225' 182' 15' 170' 235'

5130 5120 5110 5100 5110 5110 5100

DERRICK STAND
PIPE RACKS
PIPE TUBS
WATER TANK
MUD TANK
MUD PUMP 2
MUD PUMP 1
DIESEL TANK
GENERATOR
BOILER

A A' B B'

1 C4.9 · 2 F10.7 · 3 C8.1 · 4 C3.7 · 5 C1.7 · 6 C2.1 · 7 F1.1 · 8 F6.3 · 9 F5.7 · 10 F2.0 · A C11.4 · B C4.9 · C C1.5 · D F0.1 · W C1.7

WELL PAD - NBU 1022-1N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5112.9'
FINISHED GRADE ELEVATION = 5111.2'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.66 ACRES
TOTAL DISTURBANCE AREA = 5.16 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 14,411 C.Y.
TOTAL FILL FOR WELL PAD = 5,852 C.Y.
TOPSOIL @ 6" DEPTH = 2,951 C.Y.
EXCESS MATERIAL = 8,559 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

WELL PAD LEGEND

EXISTING WELL LOCATION
PROPOSED WELL LOCATION
PROPOSED BOTTOM HOLE LOCATION
EXISTING CONTOURS (2' INTERVAL)
PROPOSED CONTOURS (2' INTERVAL)
PPL — PROPOSED PIPELINE
EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

WELL PAD - NBU 1022-1N

WELL PAD - LOCATION LAYOUT
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
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SCALE: 1"=60' | DATE: 6/17/11 | SHEET NO: 9 9 OF 19
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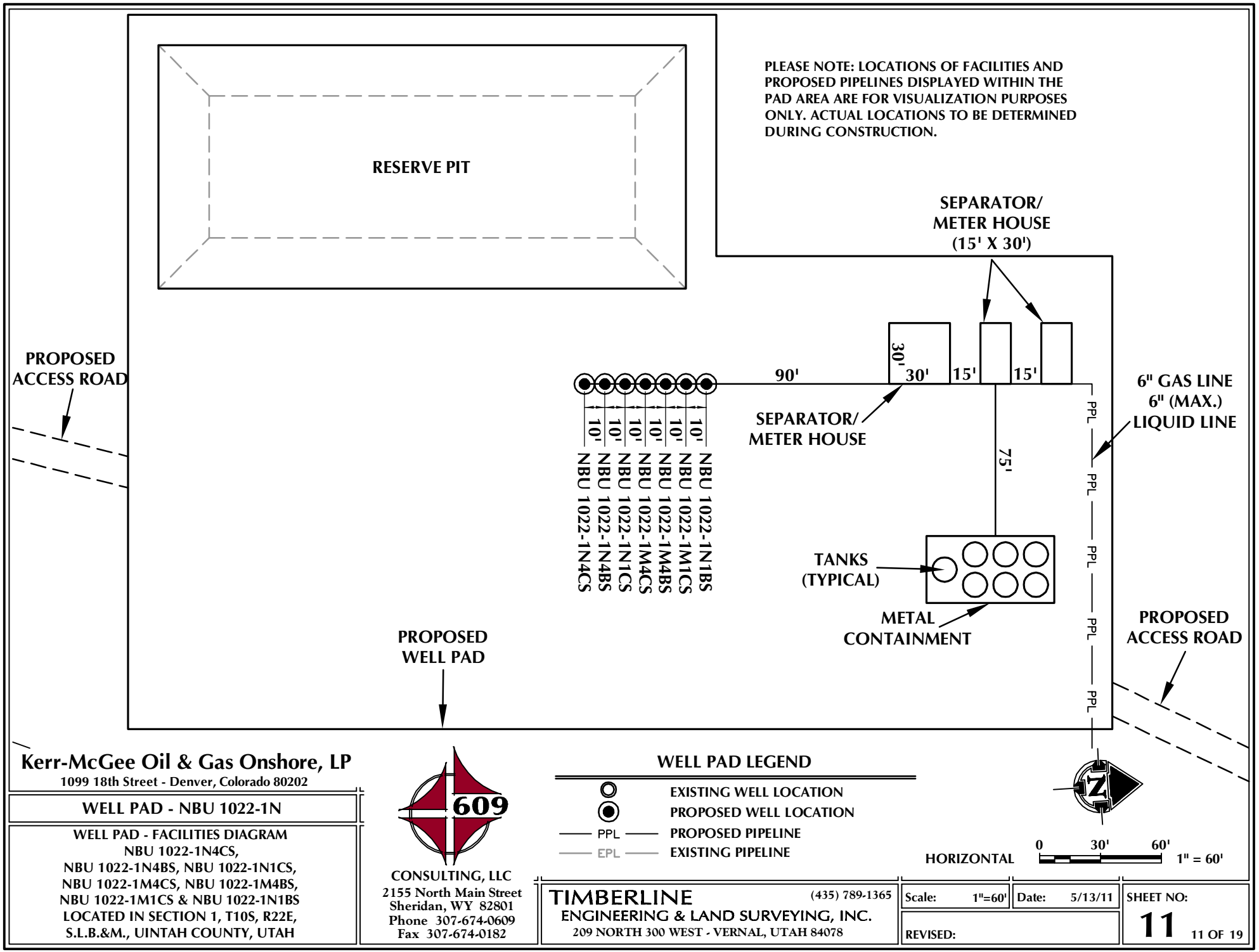

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1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1N

WELL PAD - FACILITIES DIAGRAM
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

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ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' | Date: 5/13/11 | REVISED:

SHEET NO: 11 11 OF 19

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RECEIVED: Jan. 06, 2012

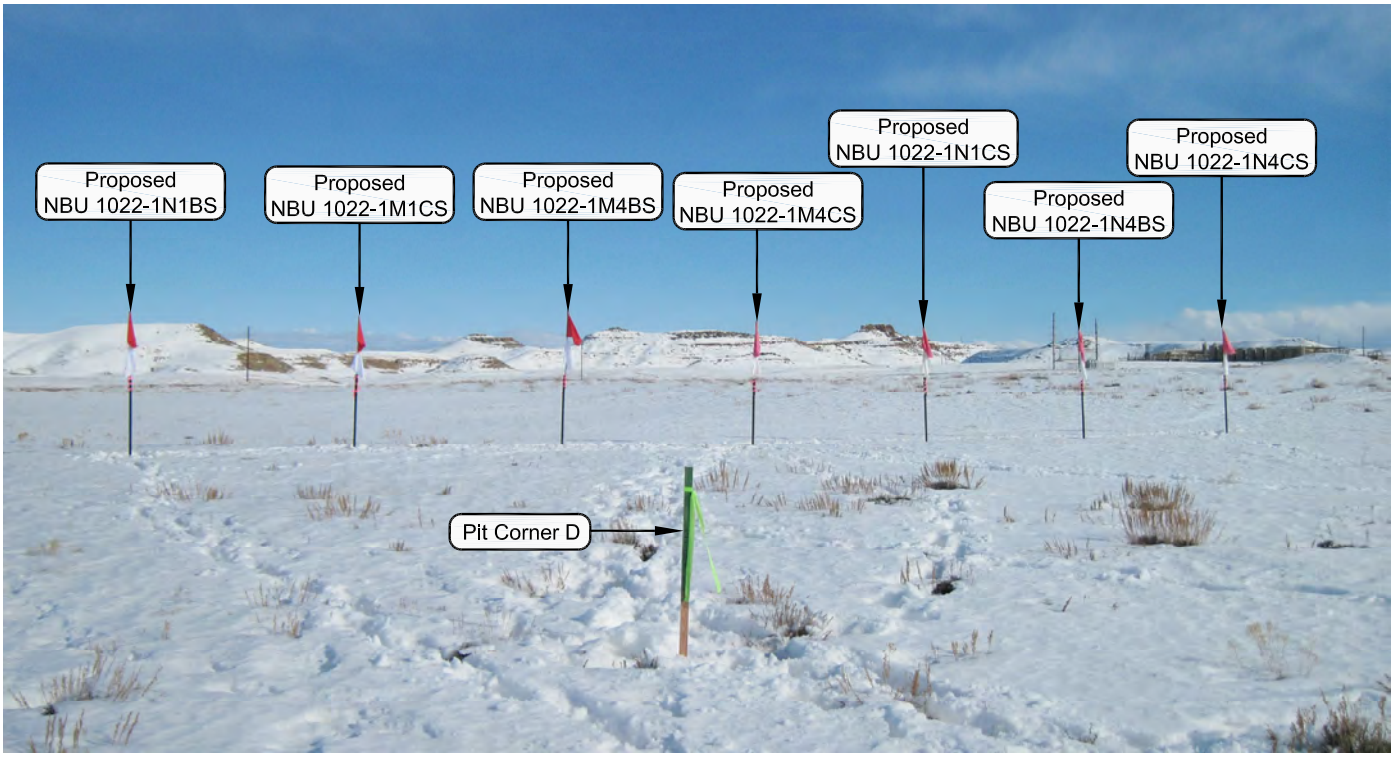


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE CAMERA ANGLE: SOUTHEASTERLY

PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1N

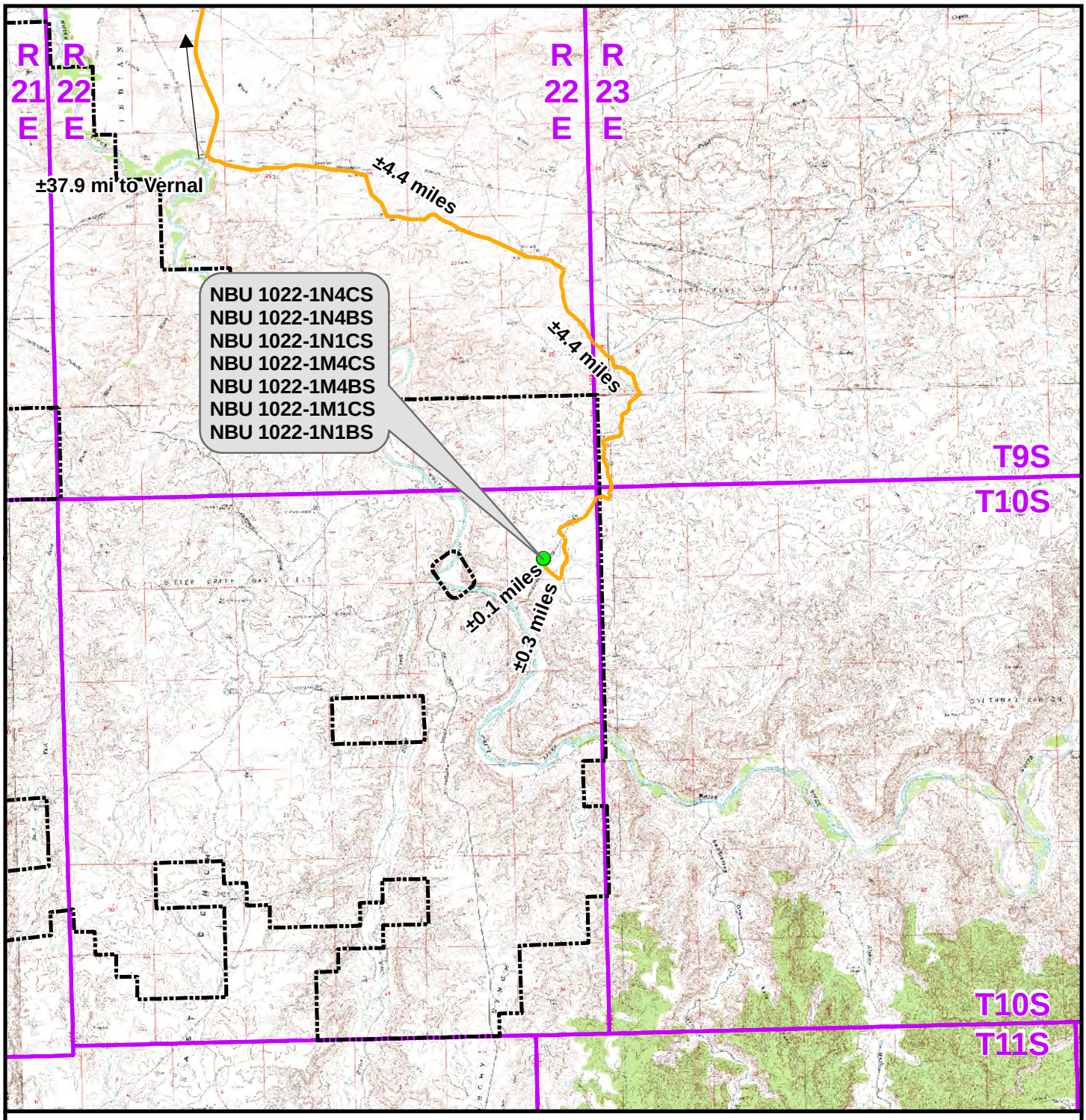
LOCATION PHOTOS
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 02-17-11	PHOTOS TAKEN BY: R.Y.	SHEET NO: 12
DATE DRAWN: 02-22-11	DRAWN BY: E.M.S.	12 OF 19
Date Last Revised:		

RECEIVED: Jan. 06, 2012



Legend

Distance From Well Pad - NBU 1022-1N To Unit Boundary: ±3,190ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

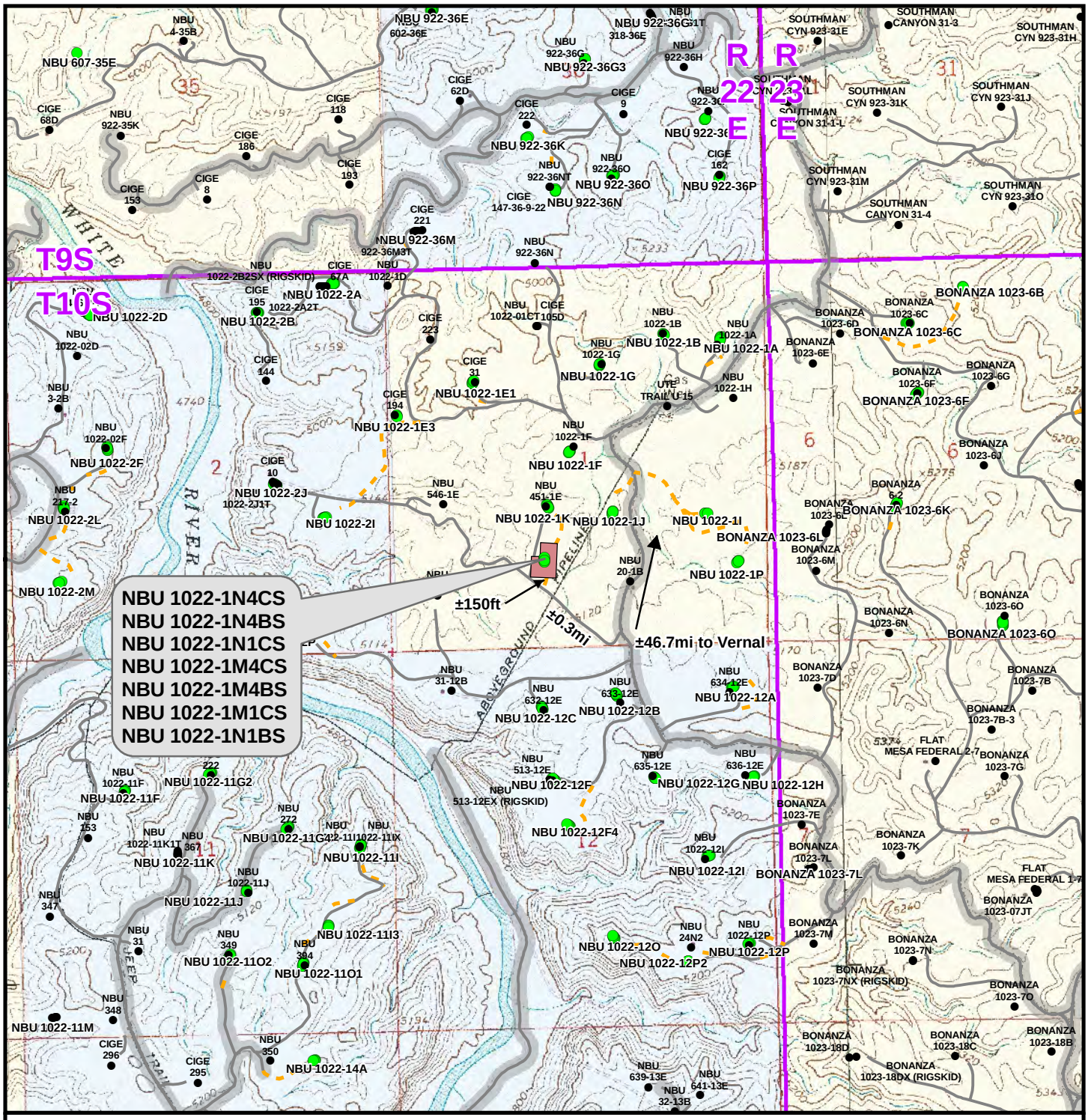
WELL PAD - NBU 1022-1N

TOPO A
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 13 of 19	
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		



Legend

Well - Proposed | Well Pad | Road - Proposed | County Road | Bureau of Land Management | State
Well - Existing | Road - Existing | Indian Reservation | Private

Total Proposed Road Length: ±150ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1N

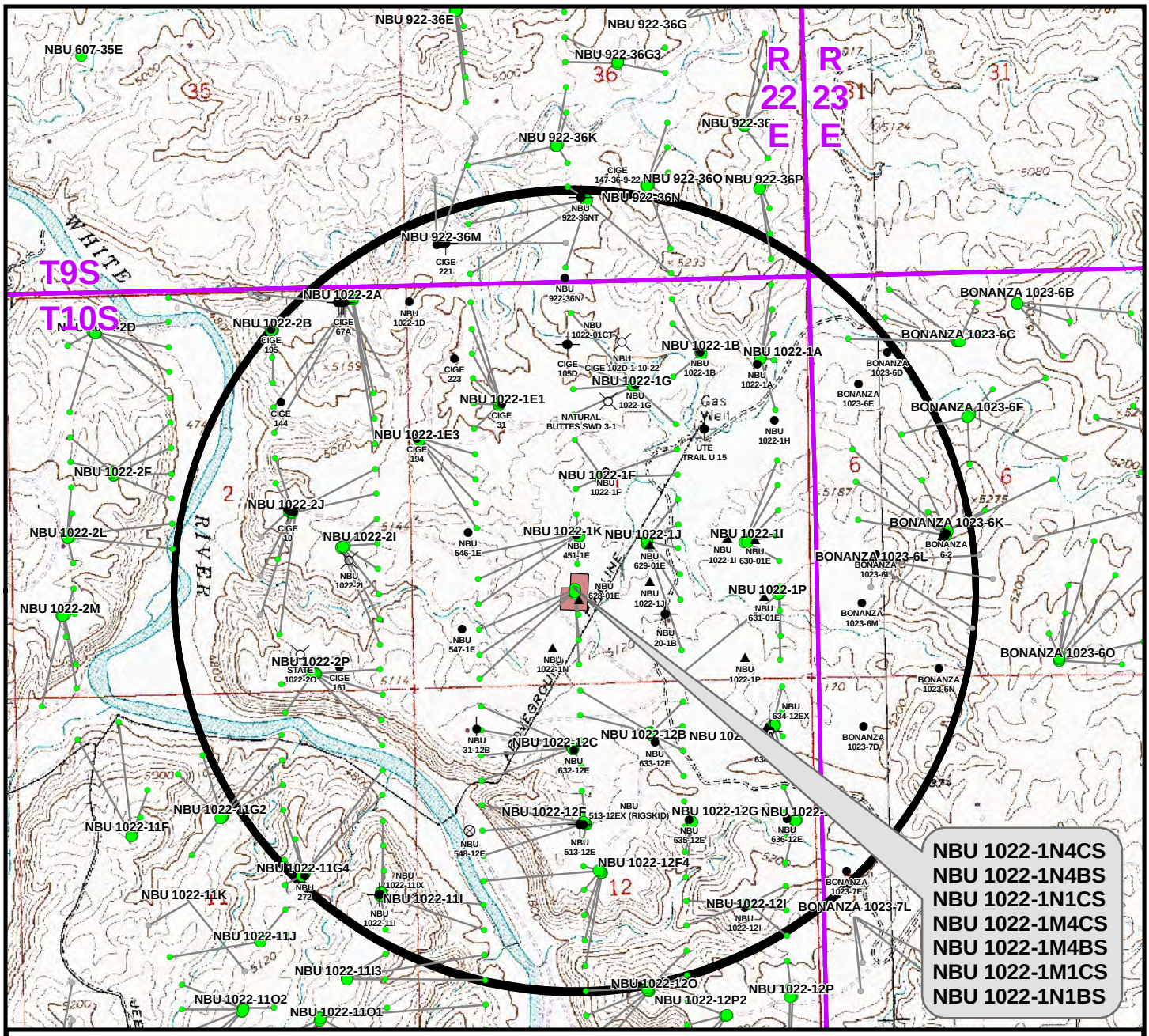
TOPO B
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14	14 of 19
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

RECEIVED: Jan. 06, 2012



Proposed Well	Nearest Well Bore	Footage
NBU 1022-1N4CS	NBU 632-12E	1,130ft
NBU 1022-1N4BS	NBU 20-1B	1,190ft
NBU 1022-1N1CS	NBU 451-1E	1,051ft
NBU 1022-1M4CS	NBU 31-12B	664ft

Proposed Well	Nearest Well Bore	Footage
NBU 1022-1M4BS	NBU 547-1E	410ft
NBU 1022-1M1CS	NBU 547-1E	224ft
NBU 1022-1N1BS	NBU 451-1E	699ft

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

Legend

- Well - Proposed
- Well Path
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Pad
- Well - 1 Mile Radius

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1N

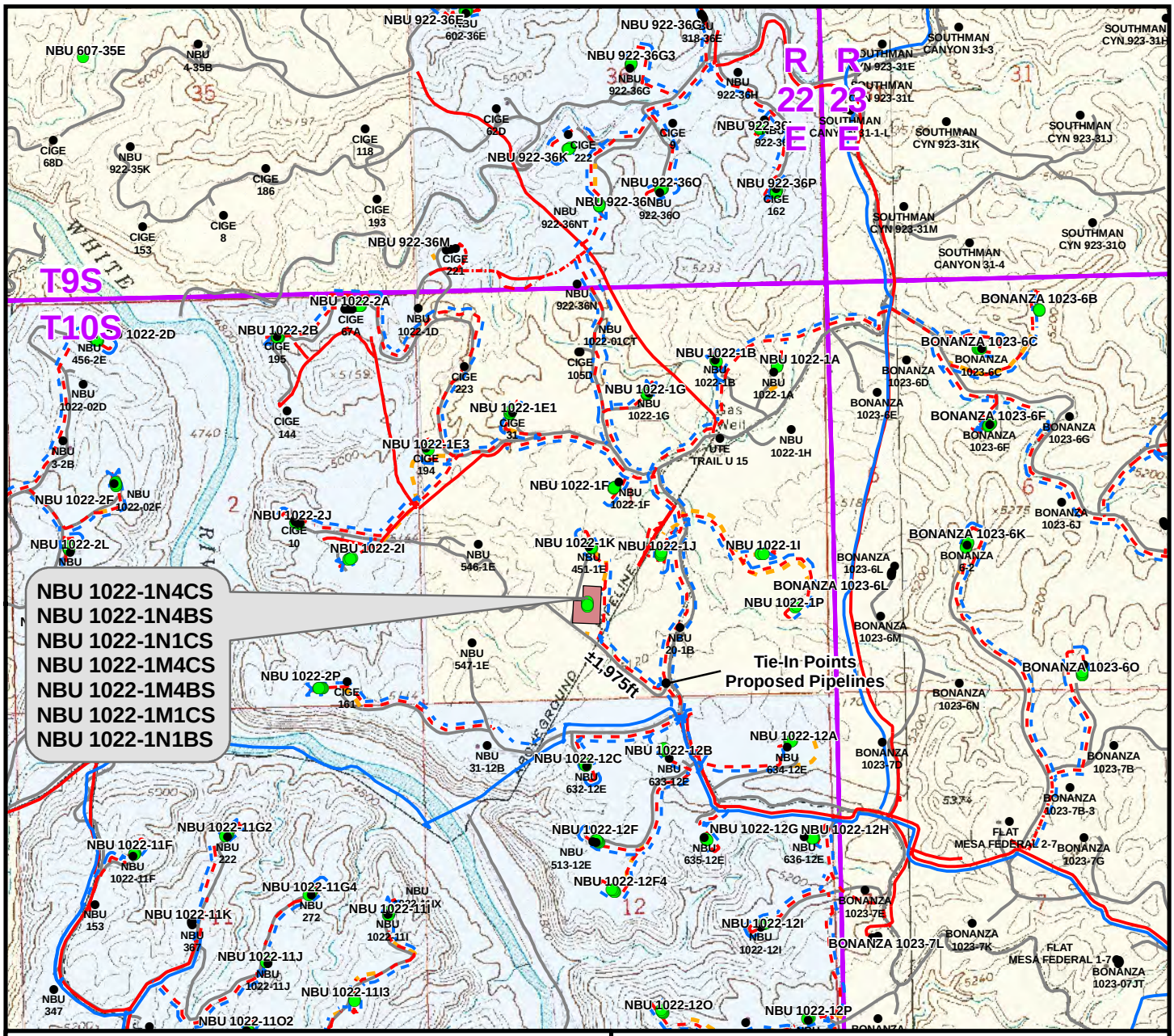
TOPO C
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15 of 19
Drawn: JFE	Date: 13 May 2011	
Revised:	Date:	

RECEIVED: Jan. 06, 2012



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Meter House to Edge of Pad)	±215ft
Buried 6"(Max.) (Edge of Pad to 1K Intersection)	±20ft
Buried 6"(Max.) (1K Intersection to Proposed Pipeline ROW In Progress)	±1,955ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±2,190ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±215ft
Buried 6" (Edge of Pad to 1K Intersection)	±20ft
Buried 10" (1K Intersection to Proposed 16" Pipeline ROW IN Progress)	±1,955ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±2,190ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1N

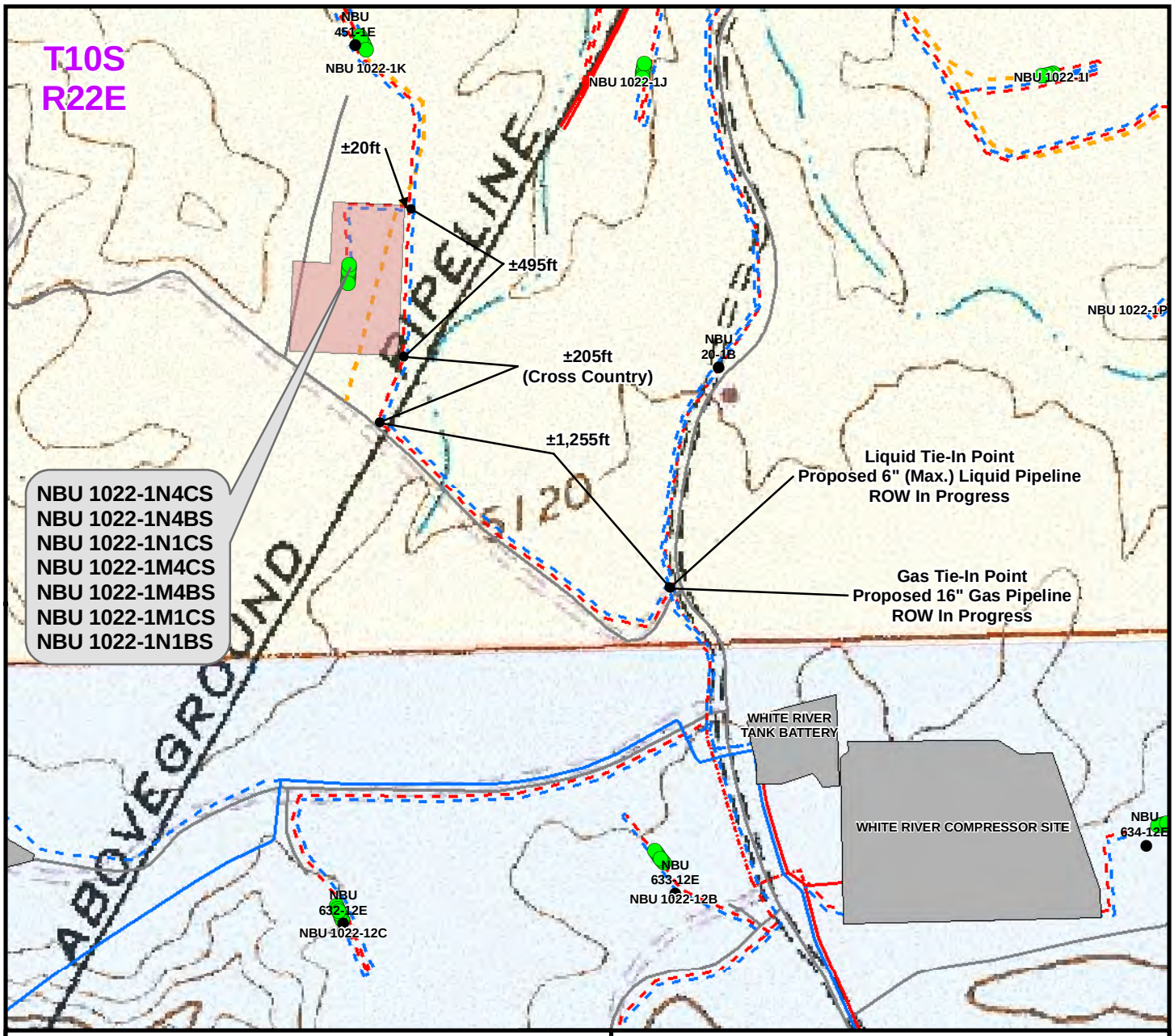
TOPO D
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 16 of 19
Drawn: JFE	Date: 13 May 2011	
Revised:	Date:	

RECEIVED: Jan. 06, 2012



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Meter House to Edge of Pad)	±215ft
Buried 6"(Max.) (Edge of Pad to 1K Intersection)	±20ft
Buried 6"(Max.) (1K Intersection to Proposed Pipeline ROW In Progress)	±1,955ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±2,190ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±215ft
Buried 6" (Edge of Pad to 1K Intersection)	±20ft
Buried 10" (1K Intersection to Proposed 16" Pipeline ROW IN Progress)	±1,955ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±2,190ft

Legend

Well - Proposed; Well Pad; Gas Pipeline - Proposed; Liquid Pipeline - Proposed; Road - Proposed; Bureau of Land Management
Well - Existing; Gas Pipeline - To Be Upgraded; Liquid Pipeline - Existing; Road - Existing; Indian Reservation
Gas Pipeline - Existing; State
Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1N

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

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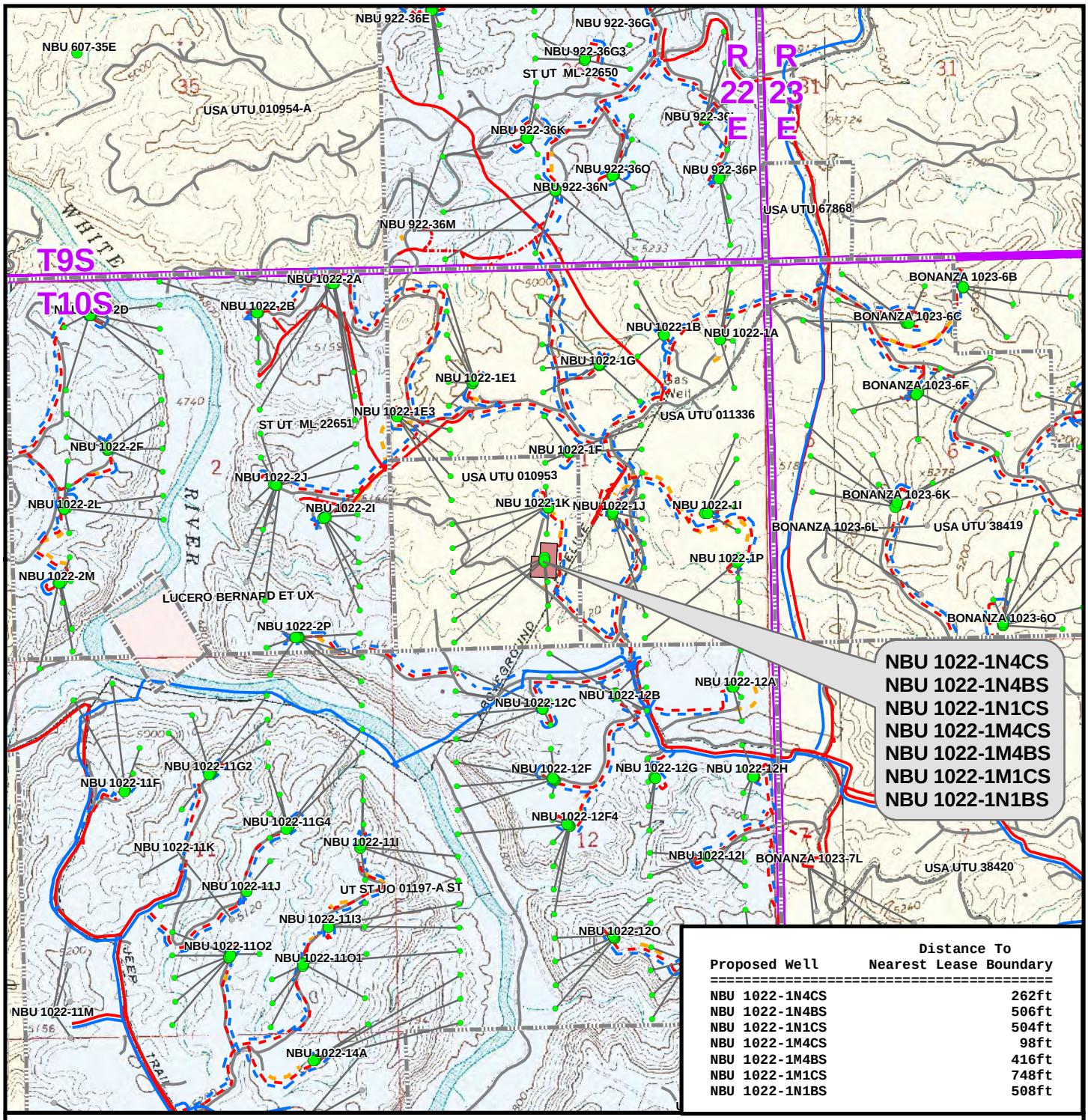
Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 17 of 19
Drawn: JFE	Date: 13 May 2011	
Revised:	Date:	

RECEIVED: Jan. 06, 2012



Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-1N4CS	262ft
NBU 1022-1N4BS	506ft
NBU 1022-1N1CS	504ft
NBU 1022-1M4CS	98ft
NBU 1022-1M4BS	416ft
NBU 1022-1M1CS	748ft
NBU 1022-1N1BS	508ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1N

TOPO E
NBU 1022-1N4CS,
NBU 1022-1N4BS, NBU 1022-1N1CS,
NBU 1022-1M4CS, NBU 1022-1M4BS,
NBU 1022-1M1CS & NBU 1022-1N1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 18	18 of 19
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

RECEIVED: Jan. 06, 2012

Joseph D. Johnson
1099 18TH STREET STE. 1800 • DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

September 28, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 1022-1N1BS
T10S-R22E
Section 1: SESW/SESW
Surface: 1258' FSL, 2094' FWL
Bottom Hole: 1266' FSL, 2127' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1022-1N1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman

RECEIVED: Jan. 06, 2012

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: U-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/11/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 21, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 5/11/2012

RECEIVED: May. 11, 2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047393110000

API: 43047393110000
Well Name: NBU 1022-1N1BS
Location: 1258 FSL 2094 FWL QTR SESW SEC 01 TWNP 100S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 5/21/2007

The undersigned as owner with legal rights to drill on the property as permitted above, 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.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **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?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Gina Becker **Date:** 5/11/2012
Title: Senior Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: May. 11, 2012

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 1022-1N1BS
Qtr/Qtr SESW Section 1 Township 10S Range 22E
Lease Serial Number UTU010953
API Number 4304739311

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/23/2012 13:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 09/22/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

RECEIVED
AUG 2 1 2012
DIV OF OIL, GAS & MINING

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-010953

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☑ SPUD REPORT Date of Spud: 8/24/2012	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON AUGUST 24, 2012 AT 07:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 30, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 8/29/2012

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739311	NBU 1022-1N1BS		SESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	8/24/2012			8/30/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 8/24/2012 AT 07:00 HRS. WSMVD

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752377	NBU 1022-1N4BS		SESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	8/24/2012			8/30/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 8/24/2012 AT 10:00 HRS. BHL: SESW WSMVD

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752372	NBU 1022-1M4CS		SESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	8/24/2012			8/30/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 8/24/2012 AT 13:00 HRS. BHL: SWSW WSMVD

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)

JAIME SCHARNOWSKE
Name (Please Print) Jaime Scharnowske
Signature
REGULATORY ANALYST 8/29/2012
Title **Date**

RECEIVED
AUG 30 2012
Div. of Oil, Gas & Mining

(5/2000)

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-010953

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/3/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No Activity for the month of September 2012. Well TD at 2,332

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 03, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 10/3/2012

RECEIVED: Oct. 03, 2012

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: U-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/5/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No Activity for the month of October 2012. Well TD at 2,347.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 05, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 11/5/2012

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/4/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No Activity for the month of November 2012. Well TD at 2,347.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 04, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 12/4/2012

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By KENNY MORRIS Phone Number 435-790-2921
Well Name/Number NBU 1022-1N1BS
Qtr/Qtr SE/SW Section 1 Township 10S Range 22E
Lease Serial Number UTU010953
API Number 4304739311

Casing – Time casing run starts, not cementing times.

☐ Production Casing
☐ Other

Date/Time _ _ AM ☐ PM ☐

BOPE

☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 12/4/2012 12:00 AM ☐ PM ☒

Rig Move
Location To:

Date/Time _ _ AM ☐ PM ☐

RECEIVED
DEC 03 2012
DIV. OF OIL, GAS & MINING

Remarks 7TH WELL ON PAD

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 12/8/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
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	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: ACTS PIT

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

FINISHED DRILLING TO 8,585' ON 12/06/2012. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 12/08/2012.DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 17, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 12/10/2012

RECEIVED: Dec. 10, 2012

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
U-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-1N1BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047393110000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Started completing the well. Well TD at 8,585

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 13, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		2/4/2013

RECEIVED: Feb. 04, 2013

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
U-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-1N1BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047393110000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

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✓ DRILLING REPORT Report Date: 3/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Started completing the well. Well TD at 8,585

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 04, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		3/4/2013

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1N1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047393110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

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FOOTAGES AT SURFACE: 1258 FSL 2094 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The subject well was placed on production on 3/4/2013. The Chronological Well History will be submitted with the well completion report.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 11, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE N/A		**DATE** 3/8/2013

RECEIVED: Mar. 08, 2013

RECEIVED

APR 0 9 2013

DIV. OF OIL, GAS & MINING

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU010953

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE LP — Contact: LUKE URBAN — E-Mail: luke.urban@anadarko.com

8. Lease Name and Well No. NBU 1022-1N1BS

3. Address 1099 18TH STREET STE 600, DENVER, CO 80202

3a. Phone No. (include area code) Ph: 720-929-6501

9. API Well No. 43-047-39311

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

At surface SESW 1258FSL 2094FWL 39.974148 N Lat, 109.390203 W Lon

At top prod interval reported below SESW 1277FSL 2119FWL

BHL by DOGM HSM

At total depth SESW ~~1269~~ 1247 FSL 2120FWL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 1 T10S R22E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 08/24/2012

15. Date T.D. Reached 12/06/2012

16. Date Completed ☐ D & A ☒ Ready to Prod. 03/04/2013

17. Elevations (DF, KB, RT, GL)* 5130 KB

18. Total Depth: MD 8585 TVD 8583

19. Plug Back T.D.: MD 8524 TVD 8522

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR/CCL/TEMP

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2317		1175		0	
7.875	4.500 I-80	11.6	0	8572		1385		1276	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7907							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	MESAVERDE	6612	8397	6612 TO 8397	0.360	156	OPEN
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6612 TO 8397	PUMP 9031 BBLS SLICK H2O & 191,138 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/04/2013	03/07/2013	24	→	0.0	3293.0	0.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1933	2484.0	→	0	3293	0		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #203269 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1232
				BIRD'S NEST	1564
				MAHOGANY	1845
				WASATCH	4175
				MESAVERDE	6308

32. Additional remarks (include plugging procedure):
The first 210 ft of the surface hole was drilled with a 12 ? in bit. The remainder of surface hole was drilled with an 11 in bit. DQX csg was run from surface to 5019 ft; LTC csg was run from 5019 ft to 8,572 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #203269 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name *(please print)* LUKE URBAN Title SR REGULATORY SPECIALIST

Signature (Electronic Submission) Date 04/04/2013

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/27/2012	16:30 - 21:00	4.50	MIRU	01	C	P		SKID RIG 20' TO NBU 1022-1N1BS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS, PLACE BOTTOME HOLE ASSEMBLY
	21:00 - 23:00	2.00	MIRU	08	A	Z		***FAILURE: RIG EQUIPMENT - (MUD PUMP) CHANGED OIL IN GEAR END OF MUD PUMP.
	23:00 - 23:30	0.50	MIRU	01	C	P		PRE SPUD JOB SAFETY MEETING REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 4)- .17 REV/GAL SN (1044684-10). PICK UP 12.25 Q506 DRILL BIT RUN 39 SN (7020485)
	23:30 - 0:00	0.50	DRLSUR	02	B	P		SPUD 09/27/2012 23:30. DRILL 12.25" HOLE 4'-70' (66', 110'/PER HOUR). 12.25 in. BIT ON 40 th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.3# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
9/28/2012	0:00 - 1:00	1.00	DRLSUR	02	B	P		DRILL 12.25" HOLE 70'-210 (140', 140'/PER HOUR). 12.25 in. BIT ON 40 th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.3# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	1:00 - 3:00	2.00	DRLSUR	06	A	P		PRE JOB SAFETY MEETING, CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP Q506F 11" BIT (3RD RUN) (SN 7031553) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL, TRIP IN HOLE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 6:00	3.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 210'-500', (290', 96'/PER HOUR). WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1140/870. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/50/55 K. DRAG 5 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES CURRENTLY 2.0' NORTH 1.8' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS NO HOLE ISSUES.
	6:00 - 17:00	11.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 500'-1900', (1400', 127'/PER HOUR). WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1250/1100. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 70/60/65 K. DRAG 5 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES CURRENTLY 1.0' NORTH 1.0' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS PUT AIR ON THE HOLE@ 1800 CFM @ 1450' NO OTHER HOLE ISSUES.
	17:00 - 21:00	4.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 1900'-2332', (432', 108'/PER HOUR) TD@12/28/2012 21:00 WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1250/1100. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 75/65/70 K. DRAG 5 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES CURRENTLY 1.0' NORTH 1.0' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS PUT AIR ON THE HOLE@ 1800 CFM @ 1450' NO OTHER HOLE ISSUES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:00 - 0:00	3.00	DRLSUR	05	A	P		CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4 400 BBL UPRIGHT'S FULL AND 2 EMPTY, MUD TANKS FULL, HOLE IS STILL LOSING VOLUME.
9/29/2012	0:00 - 3:30	3.50	DRLSUR	06	A	P		TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. LAY DOWN DIRECTIONAL TOOLS. CLEAR TOOL AREA.
	3:30 - 4:00	0.50	CSGSUR	06	A	P		PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.
	4:00 - 7:00	3.00	CSGSUR	12	C	P		RUN 52 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS. RUN A TOTAL OF 52 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 2302.07' KB. SET TOP OF BAFFLE PLATE @ 2255.86' KB.
	7:00 - 9:00	2.00	CSGSUR	12	E	P		PRE JOB SAFETY MEETING, RAN 200 ft OF 1 lin. PIPE DOWN BACK-SIDE OF CASING. RELEASE RIG AT 07:00 hrs. 09/29/2012 PRESSURE TEST LINES TO 2000 PSI. PUMP 145 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD. MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY, DISPLACE W/ 140 BBLS OF H2O, NO RETURNS THROUGH OUT JOB, FINAL LIFT OF 150 PSI AT 3 BBL/MINUTE. BUMP THE PLUGG WITH 450 PSI, HELD 450 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD. SHUT DOWN AND WASH UP.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 21:30	12.50	CSGSUR	12	E	P		PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx (20.4 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx (20.4 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT NO RETURNS TO SURFACE. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT 3 BBLS RETURNS TO SURFACE. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED AT 21:30 hrs. 09/29/2012)
12/4/2012	9:00 - 10:00	1.00	MIRU3	01	C	P		SKID RIG TO THE NBU 1022-1M4CS
	10:00 - 11:00	1.00	PRPSPD	01	B	P		N/U BOPE, R/U, FLOW LINE CHOKE LINES, WATER, BOILER, AIR, ECT
	11:00 - 15:30	4.50	PRPSPD	15	A	P		HELD SAFETY MEETING, TEST PIPE & BLIND RAMS, INNER, OUTER BOP VALVES, HCR & CHOKE VALVES, 250 LOW, 5000 HIGH, ANN 2500, SURFACE CASING TO 1500 FOR 30 MIN
	15:30 - 16:00	0.50	PRPSPD	14	B	P		INSTALL WEARBUSHING
	16:00 - 17:30	1.50	PRPSPD	06	A	P		SCRIBE BHA#1,TRIP IN HOLE,WITH SECURITY FX65M
	17:30 - 18:00	0.50	PRPSPD	09	A	P		SLIP & CUT 100 ' DRILL LINE
	18:00 - 18:30	0.50	PRPSPD	23		P		PRE SPUD SAFETY INSPECTION
	18:30 - 20:00	1.50	DRLPRC	02	F	P		DRILL CEMENT AND SHOE TRACK F/ 2211 TO 2347
	20:00 - 0:00	4.00	DRLPRC	02	B	P		CLOSED LOOP SYSTEM DRILL NEW 7.875" F/2347 TO 2937 =590 AVG 147 WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG 29 VIS TRQ ON/OFF = 5/3K PSI ON /OFF 1300/900 , DIFF 200-500 PU/SO/RT =100/85/90 K SLIDE =72 ROT=518' 24' NORTH 17 WEST OF CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/5/2012	0:00 - 8:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/2937 TO 4450=1513 AVG 189 WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG 30 VIS TRQ ON/OFF = 7/4K PSI ON /OFF 1700/1200 , DIFF 200-500 PU/SO/RT =120/100/110 K SLIDE = 28' IN .34 HRS = 82.4' PH ROT= 1485' IN 7.66 HRS = 193.8' PH 9' NORTH 13 WEST OF CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE
	8:00 - 16:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/4450 TO 5793',1343' @ 167.9' PH WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG 30 VIS TRQ ON/OFF = 8/6K PSI ON /OFF 2200-1900 , DIFF 200-500 PU/SO/RT =140/120/130 K SLIDE = 10' IN .17 HRS = 58.9' PH ROT= 1333' IN 7.83 HRS = 170.2' PH 9' N & 10' W OF TARGET CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE
	16:00 - 16:30	0.50	DRLPRV	07	A	P		SERVICE RIG
	16:30 - 0:00	7.50	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 5793 TO 6832', 1039' @ 138.5' PH WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG 30 VIS TRQ ON/OFF = 8/7K PSI ON /OFF 1700/1200 , DIFF 200-500 PU/SO/RT =150/130/140 K SLIDE = 0 ROT= 1039' = 100% 9.9' N & 7.5' W OF TARGET CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE	Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012	End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/6/2012	0:00 - 8:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 6832' TO 7750', 918' @ 114.7' PH WOB / 18-24 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG 30 VIS TRQ ON/OFF = 8/7K PSI ON /OFF 2100-1800 , DIFF 200-500 PU/SO/RT =175/140/160 K SLIDE = 62' IN 1.33 HRS = 46.6' PH ROT= 856' IN 6.67 HRS = 128.3' PH 1.5 S & 11' W OF TARGET CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE
	8:00 - 15:00	7.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 7750' TO 8352', 602' @ 86' PH WOB / 18-24 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG 32 VIS TRQ ON/OFF = 9/7K PSI ON /OFF 2300-1900 , DIFF 200-500 PU/SO/RT =185/155/170 K SLIDE = 0 ROT= 100% 15' S & 10' W OF TARGET CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE
	15:00 - 15:30	0.50	DRLPRV	07	A	P		SERVICE RIG
	15:30 - 19:00	3.50	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 8352' TO 8585', 233' @ 66.5' PH WOB / 18-24 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 170 GPM 498 DISPLACE WELL BOR WITH 12# MUD @ 8400' MW 12 PPG 42 VIS TRQ ON/OFF = 9/7K PSI ON /OFF 2500-2200 , DIFF 200-500 PU/SO/RT =185/155/170 K SLIDE = 0 ROT= 100% 19' S & 6' W OF TARGET CENTER NOV / 2- DE-WATER 0 DRILL FLARE, 0 CONN FLARE
	19:00 - 20:00	1.00	DRLPRV	05	C	P		CIRC & COND HOLE WITH 12# MUD, 42 VIS
	20:00 - 23:00	3.00	DRLPRV	06	E	P		SHORT TRIP TO 1050 TO HWDP, LOOKING FOR POSSIBLE HOLE IN PIPE, HOLE LOOKS GOOD
	23:00 - 0:00	1.00	DRLPRV	06	E	P		TRIP IN TO 5000'
12/7/2012	0:00 - 1:00	1.00	DRLPRV	02	B	P		SHORT TRIP IN TO 8542'
	1:00 - 1:30	0.50	DRLPRV	03	D	P		PRECAUTIONARY REAM TO BOTTOM OF 8585', 5' FALRE ON BOTTOMS UP, 5' FILL
	1:30 - 2:30	1.00	DRLPRV	05	C	P		CIRC & COND HOLE TO LAYDOWN DRILL STRING
	2:30 - 9:00	6.50	DRLPRV	06	A	P		HELD SAFETY MEETING WITH RIG & LAYDOWN CREWS, R/U & LAYDOWN DRILL STRING, DIR TOOLS, MM

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 9/11/2012		End Date: 12/7/2012
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 9:30	0.50	DRLPRV	14	A	P		PULL WEAR BUSHING
	9:30 - 15:30	6.00	CSGPRO	12	C	P		HELD SAFETY MEETING WITH RIG & CASING CREWS, R/U & RUN 203 JTS 4.5" I-80, 11.6# CASING, SHOE @ 8571, FLOAT @ 8525, LAND CASING WITH 90 K
	15:30 - 17:00	1.50	CSGPRO	05	D	P		CIRC OUT GAS TO CEMENT
	17:00 - 20:00	3.00	CSGPRO	12	E	P		HELD SAFETY MEETING, R/U & PSI TEST LINES TO 4000, DROP BOTTOM PLUG, PUMP 25 BBL SPACER, LEAD 450 SACK 1.98 YLD 12.5 PPG, TAIL 935 SACKS 1.32 YLD 14.3 PPG, CLEAN LINES , DROP TOP PLUG & DISPLACE WITH 132.5 BBLS CLAYFIX WATER, BUMP PLUG @ 3000 PSI(500 OVER FINAL LIFT OF 2500) FLOAT HELD WITH 20 BBLS SPACER TO CATCH TANK, 1.5 BACK TO TRUCK, SHOE @ 8571, FLOAT @ 8525', EST TOP OF TAIL 3600'
	20:00 - 21:00	1.00	CSGPRO	14	B	P		FLUSH STACK & SET PACKOFF
	21:00 - 0:00	3.00	CSGPRO	01	E	P		CLEAN PIT, RIG DOWN & PREPARE TO MOVE TO THE NBU 1022-1B1CS, RELEASE RIG @ 12/8/12 00:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-1N1BS PURPLE	**Wellbore No.**	OH
Well Name	NBU 1022-1N1BS	**Wellbore Name**	NBU 1022-1N1BS
Report No.	1	**Report Date**	2/11/2013
Project	UTAH-UINTAH	**Site**	NBU 1022-1N PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	12/18/2012	**End Date**	3/4/2013
Spud Date	9/27/2012	**Active Datum**	RKB @5,130.00usft (above Mean Sea Level)
UWI	SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

1.3 General

Contractor		**Job Method**		**Supervisor**	
Perforated Assembly		**Conveyed Method**			

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,612.0 (usft)-8,397.0 (usft	**Start Date/Time**	2/11/2013 12:00AM
No. of Intervals	48	**End Date/Time**	2/11/2013 12:00AM
Total Shots	156	**Net Perforation Interval**	52.00 (usft)
Avg Shot Density	3.00 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/11/2013 12:00AM	MESAVERDE/			6,612.0	6,613.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/11/2013 12:00AM	MESAVERDE/			6,652.0	6,653.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,690.0	6,691.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,714.0	6,715.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,747.0	6,748.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,771.0	6,772.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,808.0	6,809.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,852.0	6,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,875.0	6,877.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			6,897.0	6,899.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,122.0	7,124.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,354.0	7,355.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,419.0	7,420.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,427.0	7,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,448.0	7,449.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,464.0	7,465.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,510.0	7,511.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,520.0	7,521.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,531.0	7,532.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,624.0	7,625.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,640.0	7,641.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,669.0	7,670.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

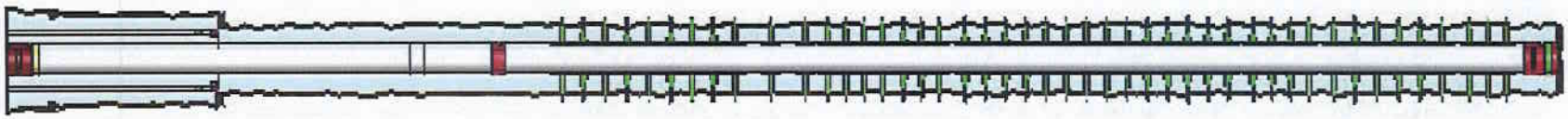
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/11/2013 12:00AM	MESAVERDE/			7,687.0	7,688.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,699.0	7,700.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,721.0	7,722.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,740.0	7,741.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,781.0	7,782.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,819.0	7,820.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,834.0	7,835.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,855.0	7,856.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,867.0	7,868.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,880.0	7,881.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,888.0	7,889.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			7,925.0	7,926.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,006.0	8,007.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,013.0	8,014.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,041.0	8,042.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,067.0	8,068.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,132.0	8,133.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,142.0	8,143.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,170.0	8,171.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,192.0	8,193.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,220.0	8,221.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/11/2013 12:00AM	MESAVERDE/			8,240.0	8,241.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,255.0	8,256.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,351.0	8,352.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,383.0	8,384.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
2/11/2013 12:00AM	MESAVERDE/			8,396.0	8,397.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 12/18/2012		End Date: 3/4/2013
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/18/2012	-							
12/19/2012	-							
2/6/2013	13:00 - 14:00	1.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 39 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 560 PSI HELD FOR 5 MIN LOST 58 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN
2/7/2013	7:00 - 13:00	6.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
2/11/2013	10:00 - 18:00	8.00	FRAC	36	B	P		FRAC STG 1)WHP 1686 PSI, BRK 3251 PSI @ 4.7 BPM. ISIP 2442 PSI, FG. 0.73 ISIP 2550 PSI, FG. 0.75, NPI 108 PSI. SWI, XO T/ WL. PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8160' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 2)WHP 2237 PSI, BRK 2450 PSI @ 4.7 BPM. ISIP 2262 PSI, FG. 0.72 ISIP 2579 PSI, FG. 0.76, NPI 317 PSI. SWI, XO T/ WL. PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7915' P/U PERF AS PER DESIGN. POOH, SWIFN.
2/12/2013	6:45 - 7:00	0.25	FRAC	48		P		FRAC STG 3)WHP 2105 PSI, BRK 3185 PSI @ 4.7 BPM. ISIP 2575 PSI, FG. 0.77 ISIP 2790 PSI, FG. 0.79, NPI 215 PSI. SWI, XO T/ WL. PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7771' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 4)WHP 1911 PSI, BRK 3075 PSI @ 4.7 BPM. ISIP 2295 PSI, FG. 0.74 ISIP 2408 PSI, FG. 0.75, NPI 113 PSI. SWI, XO T/ WL. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7562' P/U PERF AS PER DESIGN. POOH, SWIFN.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 12/18/2012		End Date: 3/4/2013
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/13/2013	8:30 - 18:00	9.50	FRAC	36	B	P		FRAC STG 5)WHP 1321 PSI, BRK 3215 PSI @ 4.7 BPM. ISIP 2010 PSI, FG. 0.71 ISIP 2245 PSI, FG. 0.74, NPI 235 PSI. SWI, XO T/ WL. PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7154' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 6)WHP 1096 PSI, BRK 2825 PSI @ 4.7 BPM. ISIP 1599 PSI, FG. 0.67 ISIP 2072 PSI, FG. 0.74, NPI 473 PSI. SWI, XO T/ WL. PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6839' P/U PERF AS PER DESIGN. POOH, SWIFN.
2/14/2013	7:30 - 12:00	4.50	FRAC	36	B	P		FRAC STG 7)WHP 631 PSI, BRK 2872 PSI @ 4.7 BPM. ISIP 1477 PSI, FG. 0.66 ISIP 2245 PSI, FG. 0.77, NPI 768 PSI. SWI, XO T/ WL. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 6562'. POOH. DONE FRACING THIS WELL. TOTAL SAND = 191,138 LBS TOTAL CLFL = 9031 BBLS
3/4/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, EQUILIZING WELLS AFTER DRILL OUT.
	7:30 - 11:00	3.50	DRLOUT	31	I	P		TALLY & PU 37/8 BIT,POBS, 1.875 X/N & 206 JTS 23/8 L-80 TAG @ 6554 ' RU DRLG EQUIP.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1N1BS PURPLE		Spud Date: 9/27/2012	
Project: UTAH-UINTAH	Site: NBU 1022-1N PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 12/18/2012		End Date: 3/4/2013
Active Datum: RKB @5,130.00usft (above Mean Sea Level)	UWI: SE/SW/0/10/S/22/E/1/0/0/26/PM/S/1258/W/0/2094/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 18:00	7.00	DRLOUT	44	C	P		BROKE CIRC CONV, TEST B OPS TO 3,000# RIH. C/O 10' SAND TAG 1ST PLG @ 6562' DRL PLG IN 4 MINS, 0 PSI INCREASE RIH C/O 60' SAND TAG 2ND PLG @ 6839' DRL PLG IN 3 MINS, 100 PSI INCREASE RIH C/O 30' SAND TAG 3RD PLG @ 7150' DRL PLG IN 5 MINS, 700 PSI INCREASE RIH. C/O 30' SAND TAG 4TH PLG @ 7562' DRL PLG IN 5 MINS, 700 PSI INCREASE RIH. C/O 25' SAND TAG 5TH PLG @ 7768' DRL PLG IN 7 MINS, 600 PSI INCREASE RIH. C/O 25' SAND TAG 6TH PLG @ 7915' DRL PLG IN 8 MINS, 800 PSI INCREASE RIH. C/O 10' SAND TAG 7TH PLG @ 8156' DRL PLG IN 10 MINS, 500 PSI INCREASE RIH. C/O TO 8504', CIRC CLN, HANG SWIVEL, L/D 19 JTS LAND TBG ON 248 JTS 23/8 L-80, ND BOPS NU WH, TEST FLOW LINE TO 3,000, TURN WELL OVER TO FB CREW.RIGGED DOWN.PREP TO MOVE IN AM. KB = 19' 41/16 CAMERON HNGR = .83' (SURFACE OPEN & LOCK) 248 JTS 23/8 L-80 = 7885.35' 2900 SICP 100 FTP 1.875 X/N, POBS = 2.20' EOT @ 7907.38' TWTR = 9291 BBLS TWR = 1300 BBLS TWLTR = 7991 BBLS 282 JTS 23/8 L-80 DELIVERED 248 LANDED 34 TO RETURN
	18:00 - 18:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1700 HR ON 3/4/2013. 3100 MCFD, 1920 BWPD, FCP 2650#, FTP 2330#, 20/64" CK.

Scientific Drilling

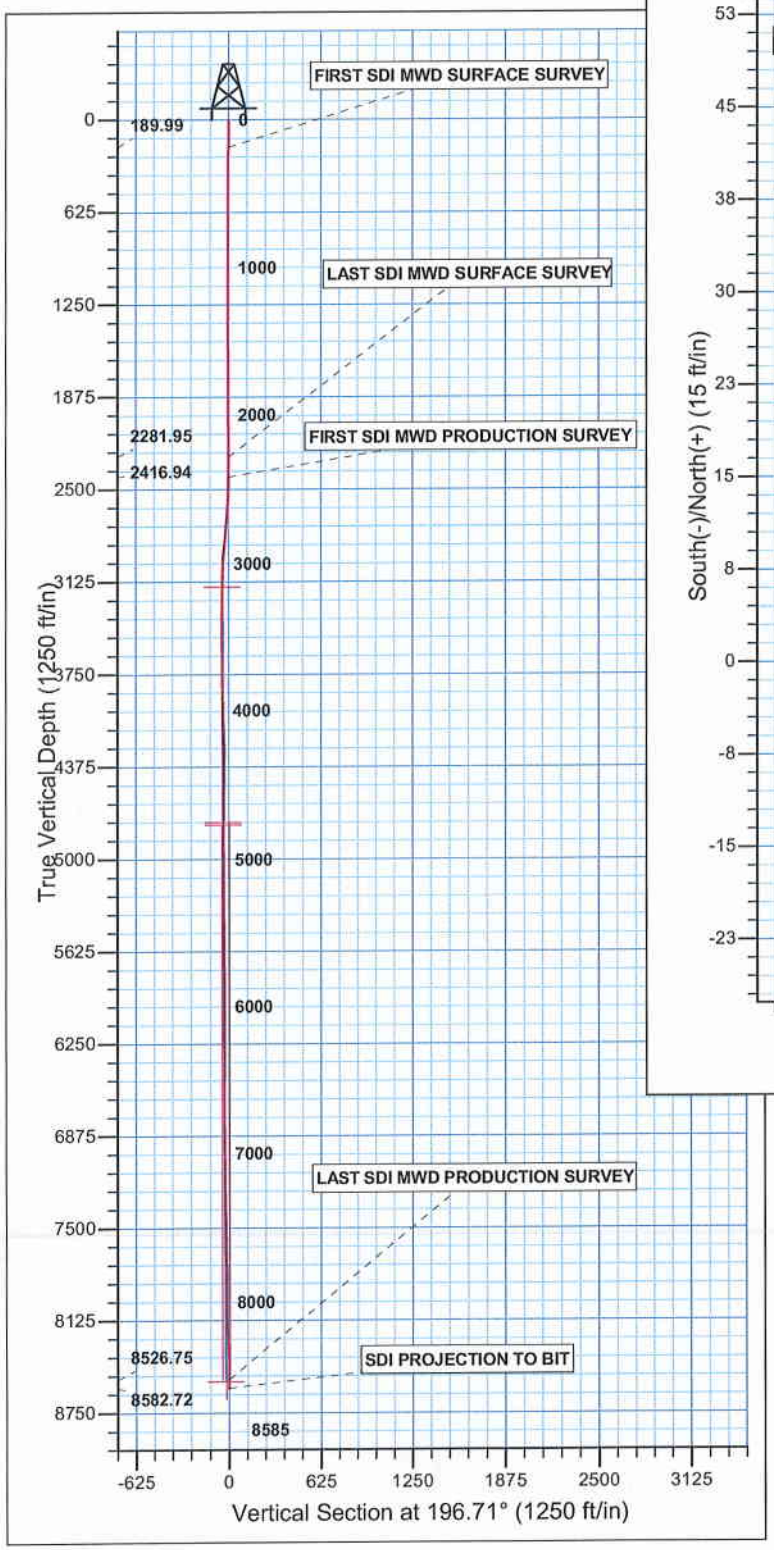
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 1022-1N PAD
Well: NBU 1022-1N1BS
Wellbore: OH
Design: OH

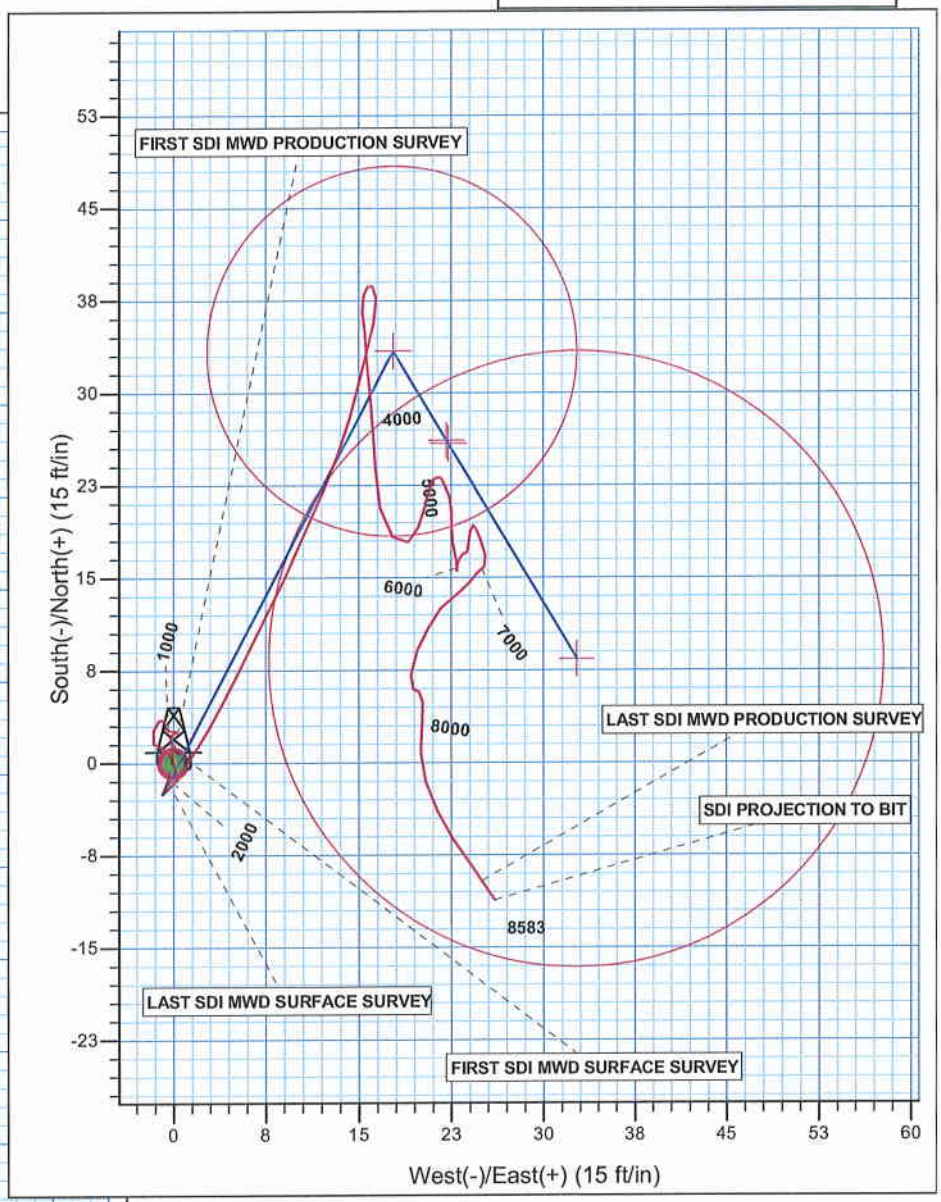
Anadarko Petroleum Corporation

WELL DETAILS: NBU 1022-1N1BS					
GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14520717.70	2091624.72	39.974182	-109.389522

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52310.3snT
Dip Angle: 65.86°
Date: 08/23/2011
Model: IGRF2010





PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 1 T10S R22W
System Datum:	Mean Sea Level

Design: OH (NBU 1022-1N1BS/OH)

Created By: Gabe Kendall Date: 15:08, December 18 2012

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-1N PAD
NBU 1022-1N1BS

OH

Design: OH

Standard Survey Report

18 December, 2012

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Site:	NBU 1022-1N PAD	**MD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Well:	NBU 1022-1N1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 1022-1N PAD, SECTION 1 T10S R22W

Site Position:		**Northing:**	14,520,707.86 usft	**Latitude:**	39.974155
From:	Lat/Long	**Easting:**	2,091,624.33 usft	**Longitude:**	-109.389524
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.03 °

Well NBU 1022-1N1BS, 1258 FSL 2094 FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,520,717.70 usft	**Latitude:**	39.974182
	+E/-W	0.00 ft	**Easting:**	2,091,624.71 usft	**Longitude:**	-109.389522
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,111.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	08/23/11	11.00	65.86	52,310

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	196.71

Survey Program **Date** 12/18/12

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
15.00	2,282.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
2,417.00	8,585.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	0.79	358.56	189.99	1.21	-0.03	-1.15	0.45	0.45	0.00
FIRST SDI MWD SURFACE SURVEY									
275.00	0.35	329.20	274.99	2.01	-0.18	-1.88	0.61	-0.52	-34.54
357.00	0.14	89.89	356.99	2.23	-0.21	-2.08	0.53	-0.26	147.18
447.00	0.09	31.61	446.99	2.29	-0.06	-2.18	0.13	-0.06	-64.76
537.00	0.09	56.48	536.99	2.39	0.04	-2.30	0.04	0.00	27.63
627.00	0.09	98.84	626.99	2.42	0.17	-2.36	0.07	0.00	47.07
717.00	0.09	346.43	716.99	2.48	0.22	-2.43	0.17	0.00	-124.90

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Site:	NBU 1022-1N PAD	**MD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Well:	NBU 1022-1N1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
807.00	0.09	65.71	806.99	2.57	0.27	-2.54	0.13	0.00	88.09
897.00	0.35	270.67	896.99	2.61	0.06	-2.51	0.48	0.29	-172.27
987.00	0.18	277.61	986.99	2.63	-0.36	-2.41	0.19	-0.19	7.71
1,077.00	0.18	338.96	1,076.99	2.78	-0.55	-2.50	0.20	0.00	68.17
1,167.00	0.32	347.66	1,166.99	3.16	-0.65	-2.83	0.16	0.16	9.67
1,257.00	0.18	302.84	1,256.99	3.48	-0.83	-3.09	0.26	-0.16	-49.80
1,347.00	0.26	241.14	1,346.99	3.46	-1.12	-2.99	0.26	0.09	-68.56
1,437.00	0.97	201.59	1,436.98	2.65	-1.58	-2.08	0.87	0.79	-43.94
1,527.00	0.53	143.58	1,526.97	1.61	-1.62	-1.07	0.91	-0.49	-64.46
1,617.00	0.62	94.89	1,616.97	1.23	-0.88	-0.92	0.53	0.10	-54.10
1,707.00	0.62	158.26	1,706.96	0.74	-0.22	-0.64	0.72	0.00	70.41
1,797.00	0.88	158.70	1,796.96	-0.36	0.21	0.28	0.29	0.29	0.49
1,887.00	0.44	192.71	1,886.95	-1.34	0.39	1.17	0.63	-0.49	37.79
1,977.00	0.35	284.55	1,976.95	-1.61	0.05	1.53	0.63	-0.10	102.04
2,067.00	0.38	325.36	2,066.95	-1.29	-0.39	1.35	0.28	0.03	45.34
2,157.00	0.18	81.44	2,156.95	-1.03	-0.42	1.11	0.54	-0.22	128.98
2,282.00	0.53	203.78	2,281.95	-1.53	-0.46	1.60	0.52	0.28	97.87
LAST SDI MWD SURFACE SURVEY									
2,417.00	0.26	183.62	2,416.94	-2.41	-0.73	2.51	0.22	-0.20	-14.93
FIRST SDI MWD PRODUCTION SURVEY									
2,512.00	1.41	40.27	2,511.93	-1.73	0.01	1.65	1.71	1.21	-150.89
2,607.00	2.99	31.31	2,606.86	1.28	2.06	-1.82	1.70	1.66	-9.43
2,702.00	5.11	26.85	2,701.62	7.17	5.25	-8.38	2.25	2.23	-4.69
2,797.00	5.19	25.24	2,796.23	14.83	9.00	-16.79	0.17	0.08	-1.69
2,891.00	4.40	22.17	2,889.91	22.02	12.17	-24.59	0.88	-0.84	-3.27
2,986.00	3.08	15.66	2,984.70	27.85	14.23	-30.77	1.46	-1.39	-6.85
3,081.00	2.46	14.26	3,079.59	32.28	15.43	-35.36	0.66	-0.65	-1.47
3,176.00	1.67	11.80	3,174.53	35.62	16.21	-38.77	0.84	-0.83	-2.59
3,271.00	0.88	354.31	3,269.50	37.70	16.42	-40.83	0.92	-0.83	-18.41
3,366.00	0.38	312.05	3,364.50	38.63	16.12	-41.64	0.69	-0.53	-44.48
3,460.00	0.35	213.42	3,458.50	38.60	15.73	-41.49	0.59	-0.03	-104.93
3,555.00	0.62	196.98	3,553.49	37.87	15.42	-40.70	0.32	0.28	-17.31
3,650.00	0.88	177.21	3,648.49	36.65	15.30	-39.50	0.38	0.27	-20.81
3,745.00	1.32	171.85	3,743.47	34.84	15.49	-37.82	0.48	0.46	-5.64
3,840.00	1.49	178.61	3,838.44	32.52	15.68	-35.65	0.25	0.18	7.12
3,935.00	1.67	171.14	3,933.40	29.92	15.92	-33.23	0.29	0.19	-7.86
4,030.00	1.85	178.79	4,028.36	27.02	16.17	-30.52	0.31	0.19	8.05
4,125.00	1.93	174.57	4,123.31	23.89	16.35	-27.58	0.17	0.08	-4.44
4,220.00	2.02	170.70	4,218.25	20.65	16.77	-24.60	0.17	0.09	-4.07
4,315.00	1.23	133.17	4,313.21	18.30	17.79	-22.64	1.35	-0.83	-39.51
4,409.00	0.70	60.22	4,407.20	17.89	19.02	-22.60	1.30	-0.56	-77.61
4,504.00	1.14	20.59	4,502.19	19.06	19.86	-23.97	0.79	0.46	-41.72
4,599.00	0.70	13.12	4,597.18	20.51	20.32	-25.49	0.48	-0.46	-7.86

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Site:	NBU 1022-1N PAD	**MD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Well:	NBU 1022-1N1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,694.00	0.70	18.21	4,692.17	21.63	20.63	-26.65	0.07	0.00	5.36
4,789.00	0.44	15.75	4,787.17	22.53	20.91	-27.59	0.27	-0.27	-2.59
4,884.00	0.18	46.43	4,882.17	22.99	21.12	-28.09	0.32	-0.27	32.29
4,979.00	0.18	84.22	4,977.17	23.10	21.38	-28.27	0.12	0.00	39.78
5,074.00	0.00	318.97	5,072.17	23.12	21.53	-28.33	0.19	-0.19	0.00
5,169.00	0.18	101.53	5,167.16	23.09	21.67	-28.35	0.19	0.19	0.00
5,263.00	0.18	182.48	5,261.16	22.91	21.81	-28.22	0.25	0.00	86.12
5,358.00	0.44	142.14	5,356.16	22.47	22.03	-27.86	0.34	0.27	-42.46
5,453.00	0.79	166.84	5,451.16	21.55	22.40	-27.08	0.45	0.37	26.00
5,548.00	0.62	178.61	5,546.15	20.40	22.56	-26.02	0.23	-0.18	12.39
5,643.00	0.79	179.76	5,641.14	19.23	22.58	-24.91	0.18	0.18	1.21
5,737.00	0.88	172.46	5,735.13	17.86	22.68	-23.63	0.15	0.10	-7.77
5,832.00	0.97	165.96	5,830.12	16.36	22.97	-22.27	0.15	0.09	-6.84
5,927.00	0.18	246.20	5,925.12	15.52	23.02	-21.49	1.01	-0.83	84.46
6,022.00	0.56	12.06	6,020.11	15.91	22.99	-21.85	0.72	0.40	132.48
6,117.00	0.26	29.37	6,115.11	16.56	23.19	-22.52	0.34	-0.32	18.22
6,211.00	0.32	47.30	6,209.11	16.92	23.49	-22.96	0.11	0.06	19.07
6,306.00	0.18	123.42	6,304.11	17.02	23.80	-23.14	0.34	-0.15	80.13
6,400.00	0.79	359.23	6,398.11	17.59	23.92	-23.72	0.96	0.65	-132.12
6,495.00	0.62	17.51	6,493.10	18.73	24.07	-24.86	0.29	-0.18	19.24
6,590.00	0.09	74.73	6,588.10	19.24	24.29	-25.41	0.61	-0.56	60.23
6,685.00	0.35	151.89	6,683.10	19.00	24.50	-25.25	0.36	0.27	81.22
6,779.00	0.79	155.67	6,777.09	18.16	24.90	-24.55	0.47	0.47	4.02
6,874.00	0.96	171.10	6,872.08	16.78	25.30	-23.34	0.30	0.18	16.24
6,969.00	0.33	238.00	6,967.08	15.85	25.19	-22.42	0.93	-0.66	70.42
7,064.00	0.53	223.70	7,062.07	15.38	24.65	-21.82	0.24	0.21	-15.05
7,159.00	0.77	215.36	7,157.07	14.54	23.98	-20.83	0.27	0.25	-8.78
7,253.00	0.95	237.41	7,251.06	13.61	22.96	-19.64	0.40	0.19	23.46
7,348.00	1.14	220.48	7,346.04	12.47	21.68	-18.17	0.38	0.20	-17.82
7,443.00	1.14	204.98	7,441.02	10.89	20.67	-16.37	0.32	0.00	-16.32
7,537.00	1.23	208.06	7,535.00	9.15	19.80	-14.46	0.12	0.10	3.28
7,632.00	1.41	181.60	7,629.98	7.09	19.28	-12.33	0.66	0.19	-27.85
7,727.00	0.26	86.15	7,724.97	5.93	19.47	-11.28	1.53	-1.21	-100.47
7,821.00	0.35	131.50	7,818.97	5.76	19.90	-11.23	0.27	0.10	48.24
7,916.00	0.79	170.26	7,913.96	4.92	20.22	-10.52	0.59	0.46	40.80
8,011.00	1.41	189.95	8,008.95	3.12	20.13	-8.78	0.76	0.65	20.73
8,105.00	1.41	174.13	8,102.92	0.83	20.05	-6.56	0.41	0.00	-16.83
8,201.00	1.49	165.52	8,198.89	-1.55	20.48	-4.40	0.24	0.08	-8.97
8,296.00	1.67	153.39	8,293.85	-3.99	21.41	-2.34	0.40	0.19	-12.77
8,391.00	1.48	147.47	8,388.81	-6.26	22.69	-0.53	0.26	-0.20	-6.23
8,486.00	1.76	143.81	8,483.78	-8.47	24.21	1.15	0.31	0.29	-3.85
8,529.00	1.93	146.01	8,526.75	-9.60	25.01	2.01	0.43	0.40	5.12
LAST SDI MWD PRODUCTION SURVEY									
8,585.00	1.93	146.01	8,582.72	-11.17	26.06	3.20	0.00	0.00	0.00

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1N1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Site:	NBU 1022-1N PAD	**MD Reference:**	GL 5111 & KB 19 @ 5130.00ft (PIONEER 54)
Well:	NBU 1022-1N1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
SDI PROJECTION TO BIT									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
190.00	189.99	1.21	-0.03	FIRST SDI MWD SURFACE SURVEY
2,282.00	2,281.95	-1.53	-0.46	LAST SDI MWD SURFACE SURVEY
2,417.00	2,416.94	-2.41	-0.73	FIRST SDI MWD PRODUCTION SURVEY
8,529.00	8,526.75	-9.60	25.01	LAST SDI MWD PRODUCTION SURVEY
8,585.00	8,582.72	-11.17	26.06	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____