



Talon Resources, Inc.

Service, Quality and Accuracy

375 South Carbon Avenue A-10
Suite 101
Price, Utah 84501
Phone: 435-637-8781
435-637-5032 Ext 710/711

Cell: 801-650-1401
801-650-1402
Fax: 435-636-8603
Email: talon@castlenet.com

RECEIVED

APR 23 2001

DIVISION OF
OIL, GAS AND MINING

April 19, 2001

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

RE: Application for Permit to Drill—SWD #4, Emery County, Utah
1557' FNL, 692' FEL, Section 15, T17S, R8E, SLB&M.

Dear Mr. Baza:

On behalf of Texaco Exploration and Production, Inc., Talon Resources, Inc. respectfully submits the enclosed original of the *Application for Permit to Drill (APD)* for the above referenced well. Included with the APD is the following supplemental information:

- Exhibit "A" - Survey plats and layouts of the proposed well site;
- Exhibit "B" - Proposed location map with pipe, power, and road corridors;
- Exhibit "C" - Drilling site layout;
- Exhibit "D" - Drilling Program;
- Exhibit "E" - Multi Point Surface Use Plan;
- Exhibit "F" - Typical road cross-section;
- Exhibit "G" - Typical BOP diagram;
- Exhibit "H" - Typical wellhead manifold diagram.

ORIGINAL

Please accept this letter as Texaco Exploration and Production's written request for confidential treatment of all information contained in and pertaining to this application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact myself, or Mr. Ian Kephart at Texaco if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton
Environmental Manager / Project Coordinator

cc: Mr. Bryant Anderson, Emery County
Mr. Allen Davis, Texaco
Mr. Ian Kephart, Texaco
Mr. Ron Wirth, Texaco
Texaco Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Designation and Serial Number: **Patented**

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

7. Unit Agreement Name: **N/A Huntington (Shallow) CBM**

8. Farm or Lease Name: **Fee**

9. Well Number: **SWD #4**

10. Field or Pool, or Wildcat: **Undesignated**

11. Qtr/Qtr, Section, Township, Range, Meridian: **SE/4 NE/4, Section 15, T17S, R8E, SLB&M**

1A. Type of Work: **DRILL** **DEEPEN**

B. Type of Well: **OIL** **GAS** OTHER: ~~Disposal~~ **SINGLE ZONE** **MULTIPLE ZONE**

2. Name of Operator: **Texaco Exploration and Production, Inc. CONFIDENTIAL**

3. Address and Telephone Number: **3300 North Butler, Farmington, NM 87401; 505-325-4397**

4. Location of Well (Footages)
At Surface: **1557' FNL, 692' FEL 4355147 N**
At Proposed Producing Zone: **5895' GR 499644 E**

12. County: **Emery** 13. State: **Utah**

14. Distance in miles and direction from nearest town or post office: **2.6 miles northwest of Huntington, Utah**

15. Distance to nearest property or lease line (feet): **230'** 16. Number of acres in lease: **80** 17. Number of acres assigned to this well: **N/A**

18. Distance to nearest well, drilling, completed, or applied for, or **None** 19. Proposed Depth: **7895'** 20. Rotary or cable tools: **Rotary**

21. Elevations (show whether DF, RT, GR, etc.): **5895' GR** 22. Approximate date work will start: **May 2001**

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48	300'	375 sacks Class G cement + 2% CaCl ₂ + 0.25 pps cellophane
12-1/4"	9-5/8" K-55 LT&C	36	3000'	175 sacks + 150 sacks 10:1 RFC Class G cement
8-3/4"	7" N-80 LT&C	23	7895'	775 sacks 50/50 POZ +B71
				225 sacks Class G cement + 10% D44 + 8% D20

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.*

24. Name & Signature: Ron With OPERATIONS SUPERVISOR Date: 4/18/01

(This space for state use only)
API Number Assigned: 43-015-30490

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: 05-24-01
By: [Signature]

ORIGINAL

Range 8 East

(S89°37'E - 5295.84')

S89°55'58"E - 5297.28'

Township 17 South

S00°28'31"W - 1325.77'

(S00°47'W - 1324.95')

S00°23'01"W - 1323.19'

(S00°47'W - 1324.95')

S00°16'41"E - 2700.59'

(NORTH - 2700.06')

1556.7'

691.7'

SWD #4
Elevation 5895.2'
UTM
N - 4354299.7
E - 499737.1

(N00°47'30"W - 5310.92')
(N00°29'W - 5310.36')

15

(N89°58'E - 2694.71')

(N89°58'E - 2682.90')

N89°39'23"E - 2694.73'

N89°38'39"E - 2682.77'

Legend

- Drill Hole Location
- ⊙ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Calculated Corner
- () GLO

GPS Measured

Location:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4700 GPS survey grade unit.

Basis of Elevation:

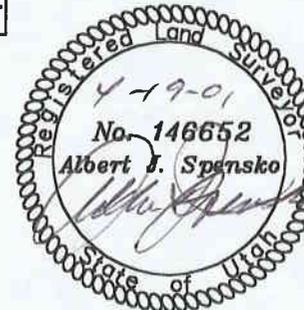
Basis of Elevation of 6192.0' being at the Northwest Section corner of Section 10, Township 17 South, Range 8 East, Salt Lake Base & Meridian, as shown on the Red Point Quadrangle 7.5 Minute Series Map.

Description of Location:

Proposed Drill Hole located in the SE 1/4, NE 1/4 of Section 15; being 1556.7' South and 691.7' West from the Northeast Corner of Section 15, T17S., R8E., Salt Lake Base and Meridian.

Surveyor's Certificate:

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



Talon Resources, Inc.
375 South Carbon Avenue, Suite 101
Price, Utah 84501
Ph: 435-637-8781
Fax: 435-636-8603



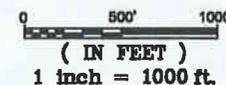
TEXACO E & P



SWD #4

Section 15, T17S., R8E., S.L.B.&M.
Emery County, Utah

GRAPHIC SCALE



Drawn By: J. STANSFIELD	Checked By: L.W.J. / A.J.S.
Drawing No. A-1	Date: 04/17/01
	Scale: 1" = 1000'
Sheet 1 of 4	Job No. 306

EXHIBIT "D"
DRILLING PROGRAM

Attached to UDOGM Form 3
Texaco Exploration and Production, Inc.
SWD #4
SE/4 NE/4, Sec. 15, T17S, R8E, SLB & M
1557' FNL, 692' FEL
Emery County, Utah

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

1. **Surface Formation and Estimated Formation Tops:**

<u>Formation</u>	<u>Depth</u>
Bluegate Shale	100'
Top of "A" coal	1785'
Navajo	6660'
Total Depth	7895'

2. **Estimated Depths at Which Oil, Gas, or other Mineral Bearing Zones are Expected to be Encountered:**

Expected oil zones:	None
Expected gas zones:	Ferron Coals at 1785'-2070'
Expected water zones:	Ferron Coals at 1785'-2070'
Expected water zones:	Navajo at 6660'
Expected mineral zones:	None

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to the State. All oil and gas shows will be tested to determine commercial potential.

3. **Pressure Control Equipment:**

The proposed pressure control equipment consists of the following:

- a. Rotating head
 - b. 3000 psi WP hydraulic-operated double ram
- (See attached schematic drawings of the BOP and choke manifold)

BOP systems shall be consistent with API RP53 AND Onshore Oil and Gas Order No.2. Pressure tests for the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing shoe and will remain in use until the well is completed or abandoned. BOP equipment will be inspected and operated daily to ensure good mechanical working order. The ram preventers shall be inspected and operated each trip (no more than once a day is required).

Pressure tests will be performed on all related well control equipment. Ram type preventers and associated equipment shall be tested using a test plug to full working pressure. The test pressure shall be maintained for at least 10 minutes with no bleed off. The valve on the casing head below the test plug shall be open during the BOP test.

As a minimum, the above pressure test shall be performed when:

- a. The stack is initially installed (prior to drilling out of the surface casing),
- b. Any seal subject to pressure is broken,
- c. Following repairs to any part of the BOP system, and
- d. At 30 day intervals.

All valves shall be tested from the working pressure side with all downstream valves open.

A BOP pit level drill shall be conducted weekly for each drilling crew.

All of the above described tests and drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be available upon request.

Drill string safety valves to fit all tools in the drill string shall be maintained on the rig floor while drilling operations are in progress.

4. **Casing Program and Auxiliary Equipment:**

- a. The following surface casing will be set at 300' in 17 ½" hole: 13 3/8" 48 lb/ft H-40 ST&C.
- b. The following intermediate casing will be set at 3000' in 12 ¼" hole: 9 5/8" 36 lb/ft K-55 LT&C.
- c. The following production casing will be set at 7895' (TD) through the Moenkopi formation in 8 ¾" hole: 7" 23 lb/ft N-80 LT&C.

9. **Lessee's Operator's Representatives:**

Permit Matters

Texaco Exploration and Production, Inc.
Ron Wirth
Production Supervisor
P.O. Box 618
Orangeville, UT 84537
(435) 748-5395 ext. 1

Drilling and Completion Matters

Texaco Exploration and Production, Inc.
Steve Godfrey
Drilling Engineer
4601 DTC Boulevard
Denver, Colorado 80237-2549
(303) 793-4936

EXHIBIT "E"
Multipoint Surface Use Plan

Attached to UDOGM Form 3
Texaco Exploration and Production, Inc.
SWD #4
SE/4 NE/4, Sec. 15, T17S, R8E, SLB & M
1557' FNL, 692' FEL
Emery County, Utah

1. Existing Roads

- a. The proposed access road will encroach Old Mill Road (#307) in which final approval from the Emery County Road Department has been received to construct and utilize the encroachment (see Exhibit "B").
- b. We do not plan to change, alter or improve upon any other existing state or county roads. Existing roads will be maintained in the same or better condition.

2. Planned Access

- a. Approximately 1050' of access is required (see Exhibit "B").
- b. Approximately 1050' of the proposed access road will be new construction across Nielson, et al surface.
- c. Maximum Width: 20' travel surface with a 27' base.
- d. Maximum grade: 10%.
- c. Turnouts: None.
- d. Drainage design: approximately 2 – 18" culverts may be required. Water will be diverted away from the planned access as necessary and practical.
- e. Once the well is drilled and an approved UIC permit has been received the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

3. Location of Existing Wells

- a. There are twelve proposed wells and one existing well within a one mile radius of the proposed well site (see Exhibit "B").

4. Location of Existing and/or Proposed Facilities

- a. Once the well is drilled, installation of disposal facilities will follow.
- b. Buried powerlines and gathering lines will diverge from the access road and traverse north towards State Road 31 approximately 1,350' and tie into the utility corridor. (see Exhibit "B").
- c. Rehabilitation of all pad areas not used for disposal facilities will be made in accordance with landowner stipulations.

5. Location and Type of Water Supply

- a. Water to be used for drilling will be obtained from a local water source (probably North Emery Water Users Association (a local source of municipal water).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

6. Source of Construction Materials

- a. All necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

7. Methods for handling waste disposal

- a. The 8' deep reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit and will be lined. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or pad location
- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. Ancillary Facilities

- a. Anticipated ancillary facilities include, trailers, pipe racks, pumps, tanks, fuel containers, garbage containers and portable toilets.

9. Wellsite Layout

- a. Available topsoil will be removed from the location and stockpiled. The location of mud tanks, pumps, pipe racks, fuel containers, reserve pit, and soil stockpiles will be located as shown on Exhibit "C"..
- a. Access to the well pad will be as shown on Exhibit "B".
- c. Natural runoff will be diverted around the well pad.

10. Plans for Restoration of Surface

- a. All surface areas not required for disposal operations will be graded to as near original condition as possible and recontoured to minimize possible erosion.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- d. Any oil accumulation on the pit will be removed or overhead flagged as dictated by the existing conditions.
- e. Rehabilitation will commence following completion of the well. Rat and mouse holes will be filled immediately upon release of the drilling rig from the location. If the wellsite is to be abandoned, all disturbed areas will be recontoured.

11. Surface Ownership

- a. The wellsite, access road and utility corridor will be constructed on lands owned by Nielson LTD, attn: Wayne Nielson, P.O. Box 620 , 625 West 1300 North, North Loop Road, Huntington, Utah 84528; 435-687-2494. The operator shall contact the landowner and the Division of Oil, Gas and Mining 48 hours prior to beginning construction activities.

12. **Other Information:**

- a. The primary surface use is songbird habitat. The nearest dwelling is approximately 1700' northeast. Nearest live water is Huntington Creek approximately 170' north.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed, and piled downhill from the topsoil stockpile location.
- c. The backslope and foreslope will be constructed no steeper than 4:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be at the well site during construction and drilling operations.
- f. There will be no deviation from the proposed construction, drilling, and/or completion program without prior approval from the Division of Oil, Gas & Mining.
- g. During the completion of the well Texaco Exploration and Production, Inc. will file an application for Underground Injection Control Permit.

13. **Company Representatives**

Ian Kephart
Texaco Exploration and Production, Inc.
3300 North Butler Suite 100
Farmington, New Mexico 87401
(505)325-4397 x 105

Ron D. Wirth
Texaco Exploration and Production, Inc.
P.O. Box 618
Orangeville, Utah 84537
(435) 748-5395

Mail Approved A.P.D. To:
Company Representatives

Excavation Contractor

Nielson Construction
625 West 1300 North,
North Loop Road
Huntington, Utah 84528
(435) 687-2494

14. 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 presently 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 Texaco Exploration and Production, Inc. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/18/01
Date

Ron With
Texaco Exploration and Production, Inc.

ORIGINAL

TYPICAL ROAD CROSS-SECTION

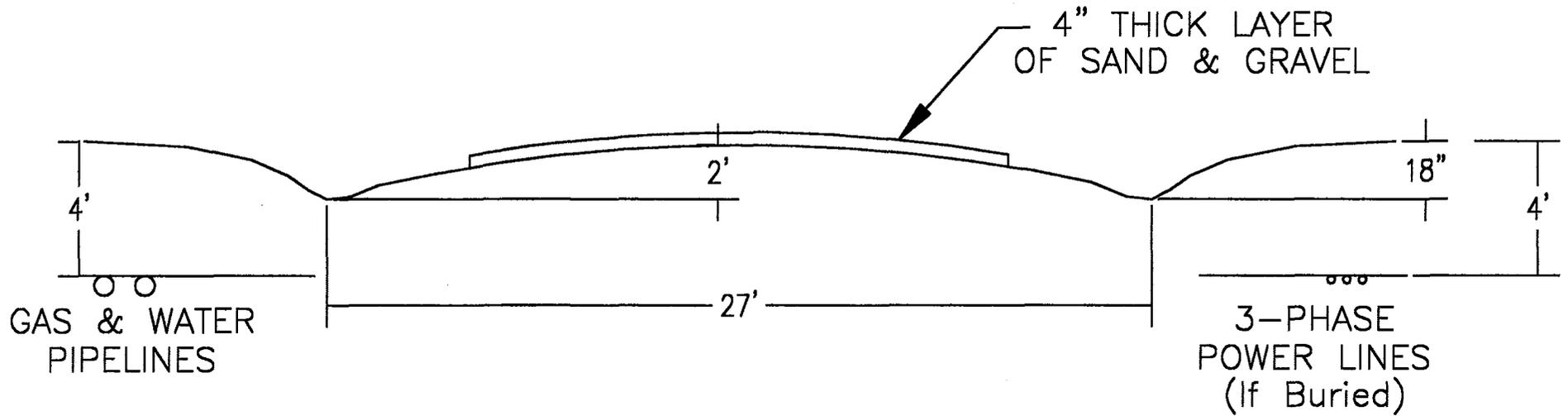


EXHIBIT "F"



BOP Equipment

3000psi WP

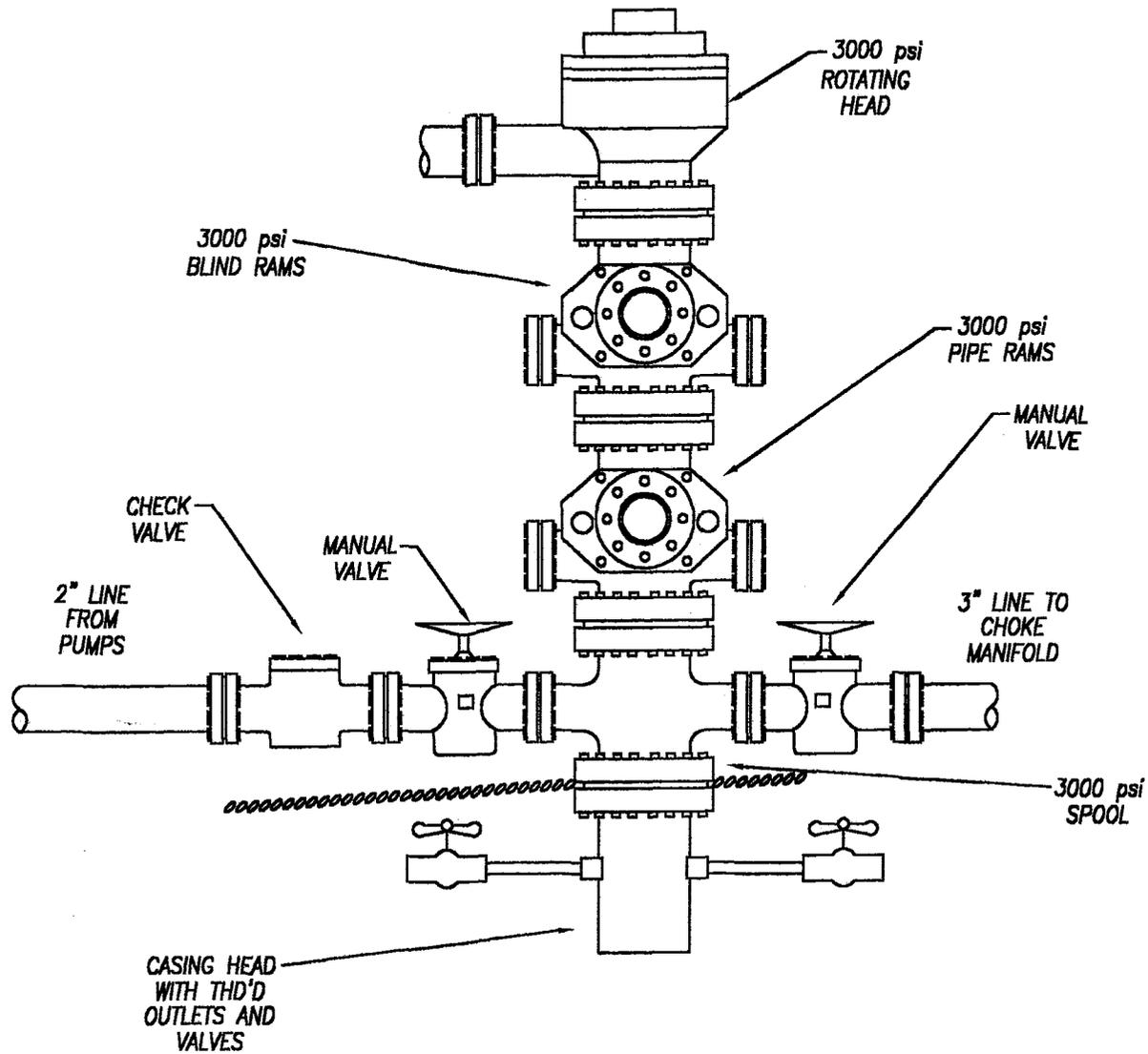


EXHIBIT "G"



CHOKE MANIFOLD

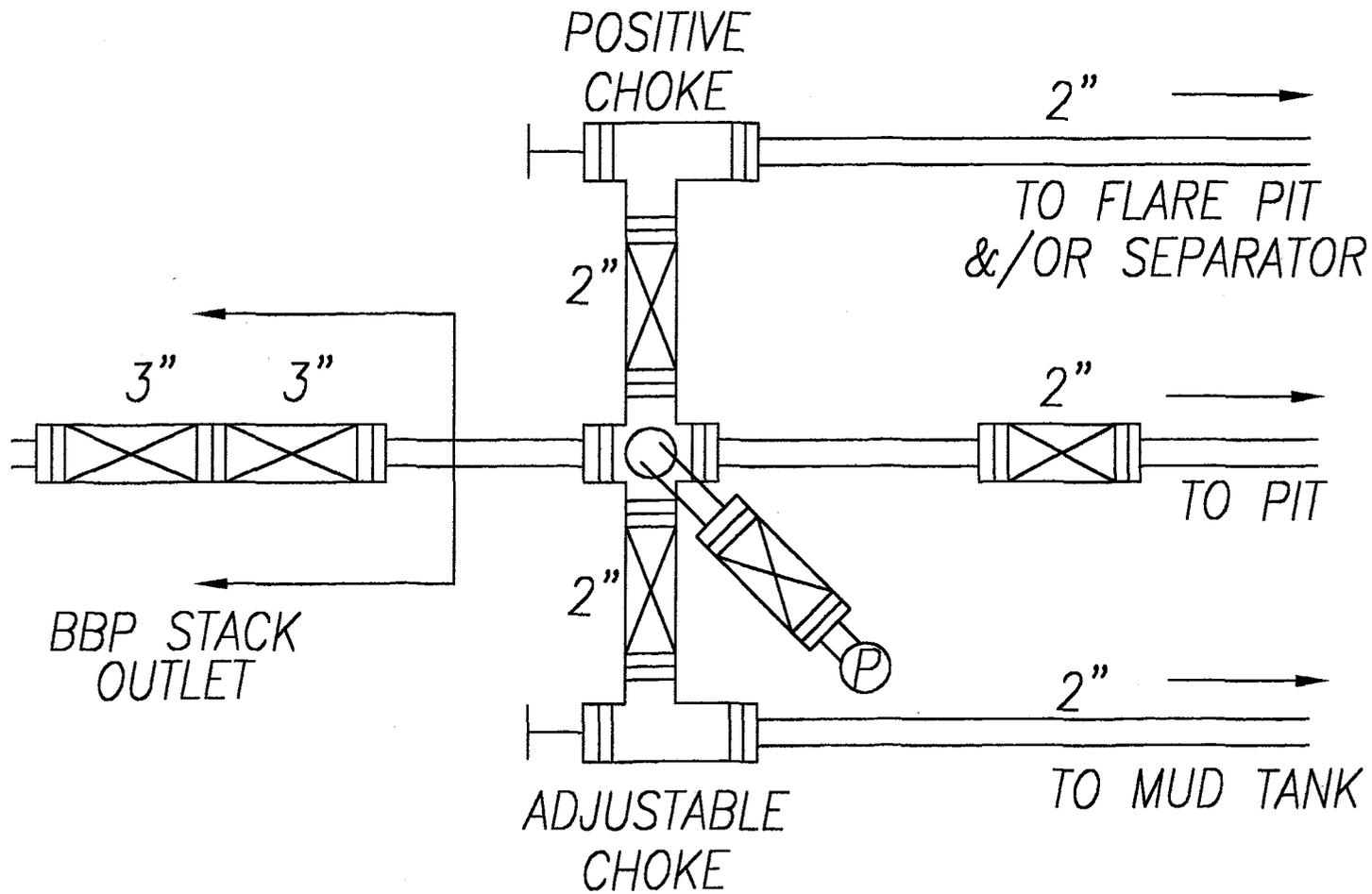
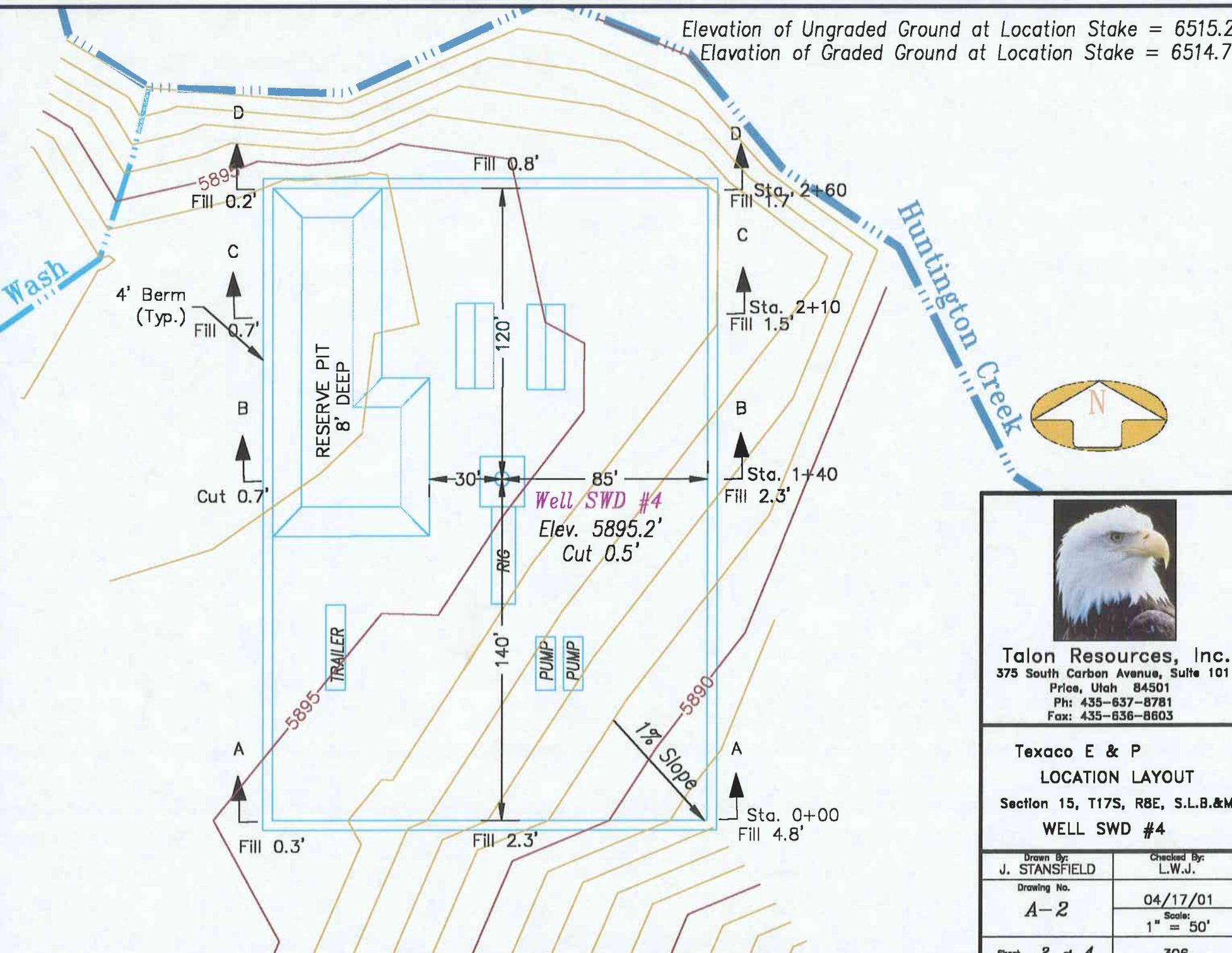


EXHIBIT "H"



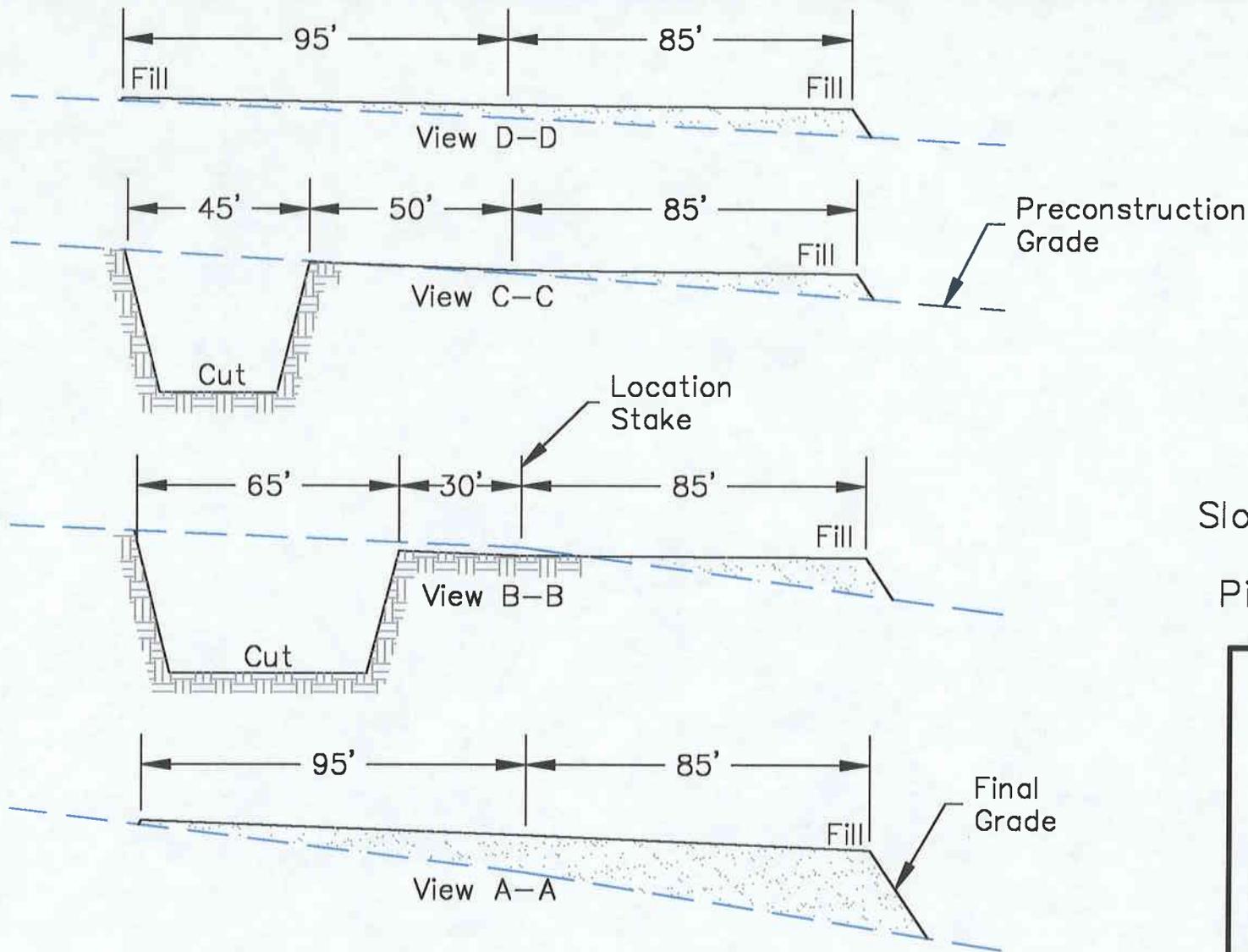
Elevation of Ungraded Ground at Location Stake = 6515.2'
 Elevation of Graded Ground at Location Stake = 6514.7'




Talon Resources, Inc.
 375 South Carbon Avenue, Suite 101
 Price, Utah 84501
 Ph: 435-637-8781
 Fax: 435-636-8603

Texaco E & P
LOCATION LAYOUT
 Section 15, T17S, R8E, S.L.B.&M.
WELL SWD #4

Drawn By: J. STANSFIELD	Checked By: L.W.J.
Drawing No. A-2	04/17/01 Scale: 1" = 50'
Sheet 2 of 4	306



$1'' = 10'$
 X-Section
 Scale
 $1'' = 40'$

Slope = 1 1/2 : 1
 (Except Pit)
 Pit Slope = 1 ; 1

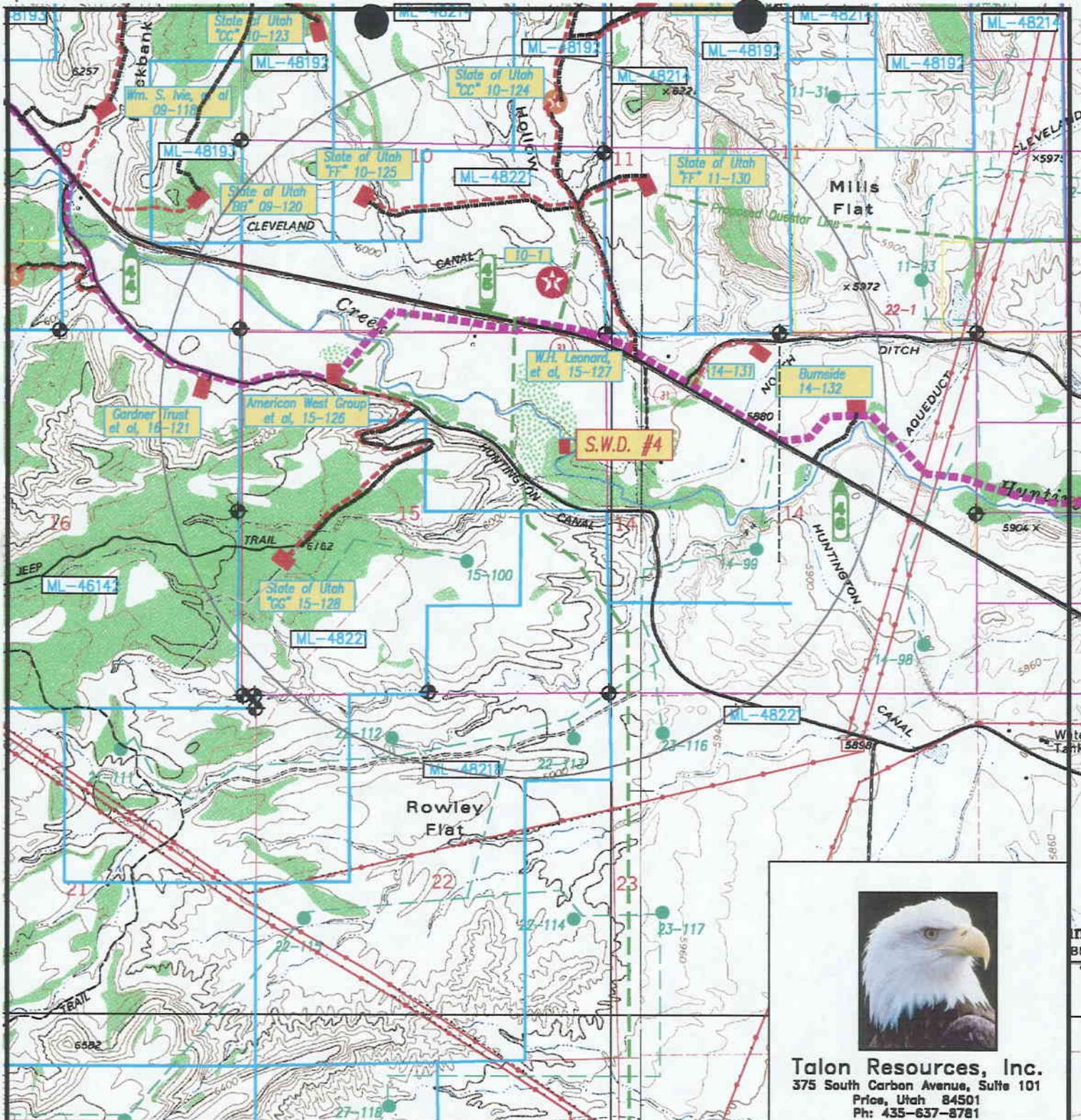
APPROXIMATE YARDAGES
 CUT
 (6") Topsoil Stripping = 750 Cu. Yds.
 Remaining Location = 185 Cu. Yds.
 TOTAL CUT = 2,035 Cu. Yds.
 TOTAL FILL = 1,730 Cu. Yds.



Talon Resources, Inc.
 375 South Carbon Avenue, Suite 101
 Pric, Utah 84501
 Ph: 435-637-8781
 Fax: 435-636-8603

TEXACO E & P
TYPICAL CROSS SECTION
Section 15, T17S, R8E, S.L.B.&M.
WELL SWD #4

Drawn By: J. STANSFIELD	Checked By: L.W.J.
Drawing No. C-1	Date: 04/17/01
	Scale: 1" = 40'
Sheet 3 of 4	Job No. 306



Talon Resources, Inc.
 375 South Carbon Avenue, Suite 101
 Price, Utah 84501
 Ph: 435-637-8781
 Fax: 435-636-8603

TEXACO E & P
Well SWD #4
 Section 15, T17S, R8E, S.L.B.&M.
 Emery County, Utah

Drawn By J. STANSFIELD	Checked By L.W.J.
Drawing No. L-1	Date 01/17/01
	Scale 1" = 2000'
Sheet 4 of 4	Job No. 305

	Existing Road		Access Road
	Main Gas Line		Gathering Line
	Existing Power		
	Lease Boundary Line		
	Property Line		
	2001 Well Location and Number		
	Existing Well Location and Number		
	Future Wells		

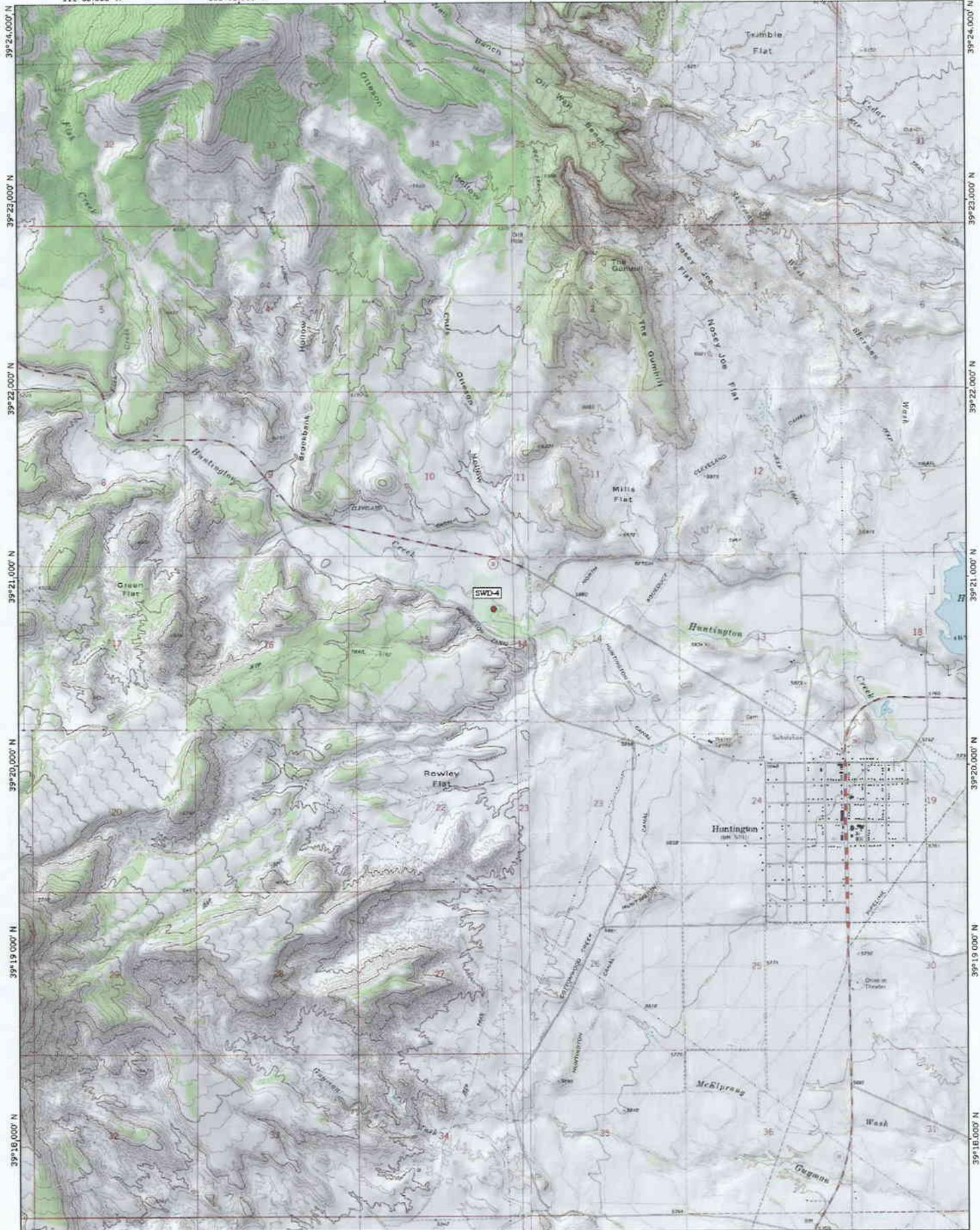
111°03.000' W

111°02.000' W

TOPIC map printed on 04/19/01 from "Utah.tpo" and "Untitled.tpg"
111°01.000' W 111°00.000' W

110°59.000' W

WGS84 110°58.000' W



111°03.000' W

111°02.000' W

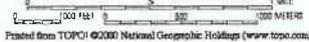
111°01.000' W

111°00.000' W

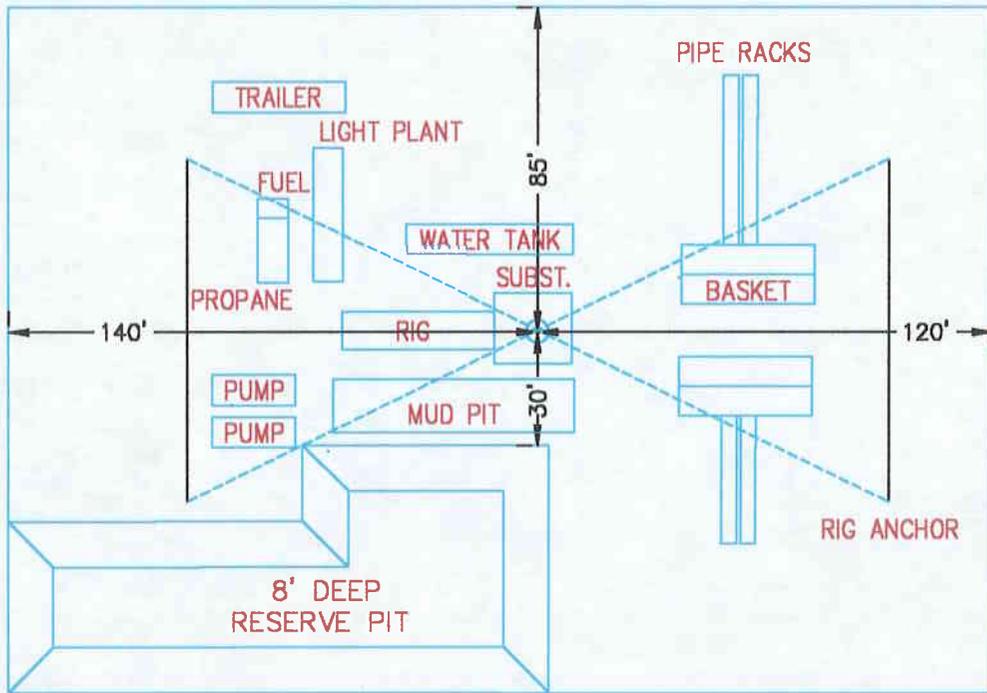
110°59.000' W

WGS84 110°58.000' W

13



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Talon Resources, Inc.
 375 South Carbon Avenue, Suite 101
 Price, Utah 84501
 Ph: 435-637-8781
 Fax: 435-636-8603

★ TEXACO E & P ★
Drilling Site Layout
 Section 15, T17S, R8E, S.L.B.&M.
 SWD #4

Drawn By: D. Hamilton	Checked By: L.W.J.
Exhibit "C"	Date: 03/21/01
	Scale: 1" = 50'
	Job No. 306

EXHIBIT "C"



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/23/2001

API NO. ASSIGNED: 43-015-30490

WELL NAME: SWD 4
 OPERATOR: TEXACO E & P INC (N5700)
 CONTACT: RON WIRTH

PHONE NUMBER: 505-325-4397

PROPOSED LOCATION:

SENE 15 170S 080E
 SURFACE: 1557 FNL 0692 FEL
 BOTTOM: 1557 FNL 0692 FEL
 EMERY
 WILDCAT (1)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	RAM	5/16/01
Geology		
Surface		

LEASE TYPE: 4 - Fee
 LEASE NUMBER: FEE
 SURFACE OWNER: 4 - Fee **Taken eff. 5-17-01.*

PROPOSED FORMATION: NAVA

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[4]
(No. 6027949)
- Potash (Y/N)
- Oil Shale (Y/N) *190-5 (B) or 190-3
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit HUNTINGTON CBM
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 245-2 *Unit Desig.
Eff Date: 4-25-01
Siting: 460' fr. Unit Boundary & Uncomm. Lands.
- R649-3-11. Directional Drill

COMMENTS: Need Presite. (5-14-01)

STIPULATIONS: ① A Cement Bond Log (CBL) SHALL BE RUN WITH 1000psi AT SURFACE. AFTER THE 7" HAS BEEN COMPLETED
② STATEMENT OF BASIS

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/23/2001

API NO. ASSIGNED: 43-015-30490

WELL NAME: SWD 4
 OPERATOR: TEXACO E & P INC (N5700)
 CONTACT: RON WIRTH

PHONE NUMBER: 505-325-4397

PROPOSED LOCATION:

SENE 15 170S 080E
 SURFACE: 1557 FNL 0692 FEL
 BOTTOM: 1557 FNL 0692 FEL
 EMERY
 WILDCAT (1)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	RAM	5/16/01
Geology		
Surface		

LEASE TYPE: 4 - Fee
 LEASE NUMBER: FEE
 SURFACE OWNER: 4 - Fee **Taken eff. 5-17-01.*

PROPOSED FORMATION: NAVA

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[]
(No. 6027949)
- Potash (Y/N)
- Oil Shale (Y/N) *190-3 (B) or 190-5
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

*AFTER THE 7" CASING HAS BEEN RUN AND
 COMPLETED IN PLACE, A COMBAT BOND
 LOG (CBL) SHALL BE RUN WITH
 1000 PSI AT THE SURFACE.*

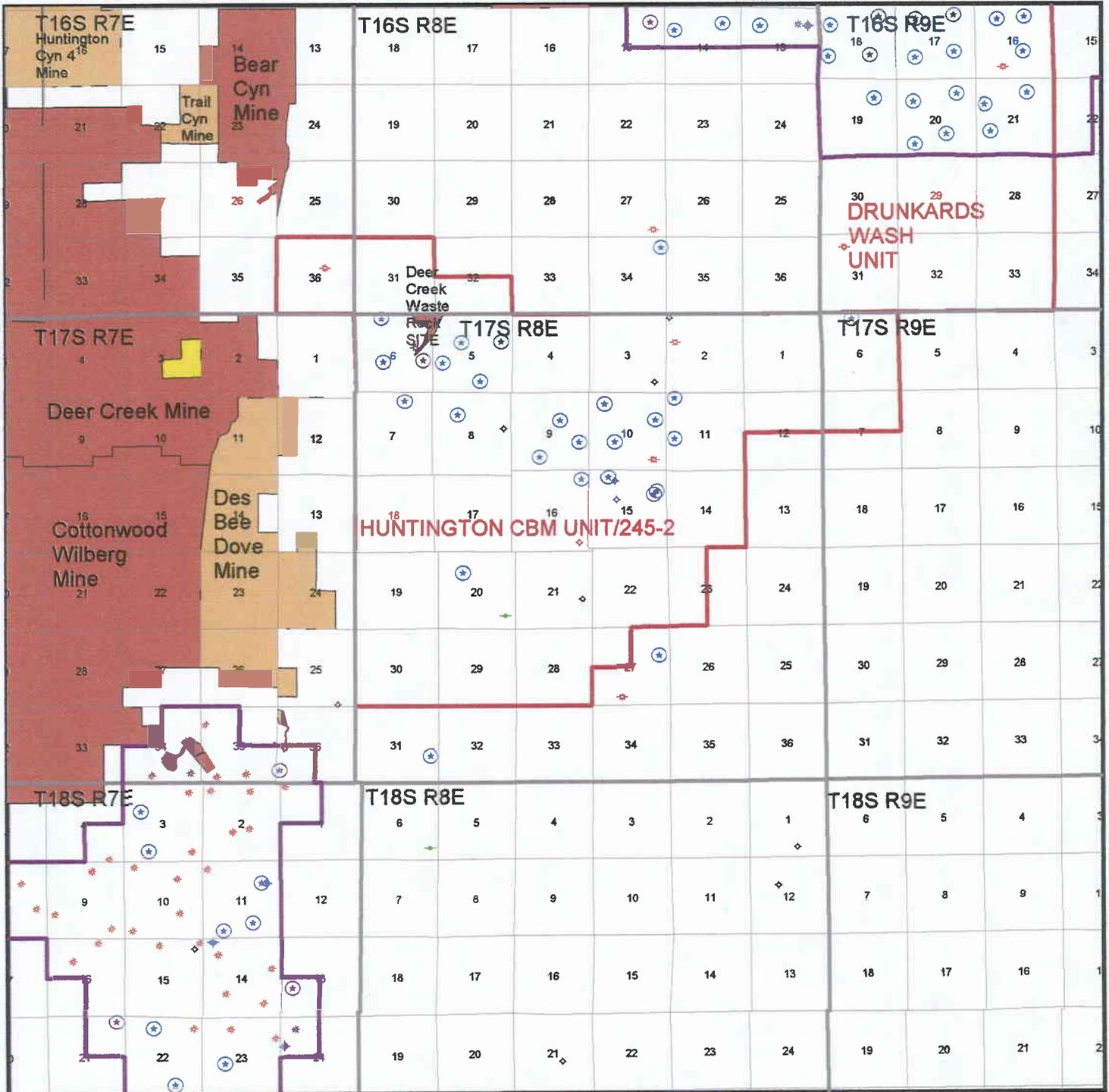
- Drilling Unit
 Board Cause No: *245-2 * Unit Desig.*
 Eff Date: *4-25-01*
 Siting: *460' fr. Unit Boundary & Uncomm. Lands.*
- R649-3-11. Directional Drill

COMMENTS: Need Presite. (5-14-01)

STIPULATIONS: ① A Combat Bond Log (CBL) SHALL BE RUN WITH 1000psi AT SURFACE AFTER THE 7" HAS BEEN COMPLETED
② STATEMENT OF BASIS



OPERATOR: TEXACO E&P INC (N5700)
 SEC. 1-36, T17S, R8E
 COUNTY: EMERY UNIT: HUNTINGTON CBM
 CAUSE: 245-2 (4-25-01)





OPERATOR: TEXACO E&P INC (N5700)
 SEC. 15, T17S, R8E
 FIELD: WILDCAT (001)
 COUNTY: EMERY UNIT: HUNTINGTON CBM
 CAUSE: 245-2



**DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS**

Operator Name: Texaco Exploration and Production, Incorporated

Name & Number: SWD #4

API Number: 43-015-30490

Location: 1/4, 1/4 SE NE Sec. 15 T. 17 S R. 8 E . County: Emery

Geology/Ground Water:

There are no aquifers with high quality ground water expected to be encountered and there are only 5 known culinary water wells in all of Emery County. A search of the Division of Water Rights records revealed that there are 82 points of diversion or water supply nearby. A diversion weir for the Huntington irrigation system is within 100' of the NE corner of location and Huntington Creek is less than 100' away on two sides of the site, as the site is on a goose neck of the creek. A moderately permeable soil is developed on Quaternary alluvium, which covers the Upper Part of the Blue Gate Shale Member of the Mancos Shale. The proposed surface casing and cementing program should be sufficient to ensure the protection of any unknown ground water resources and 300' of surface casing and cement will protect the water table in Huntington Creek. This creek is less than 1/4 mile to the north and is active all year long. It is also the major source for agricultural water in this part of the state.

Reviewer: K. Michael Hebertson

Date: 14/May/2001

Surface:

The nearest moving surface waters are in Huntington Creek less than 100 feet north. Precipitation will be deflected around the location with berms, diversions and culverts. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway.

Reviewer: K. Michael Hebertson

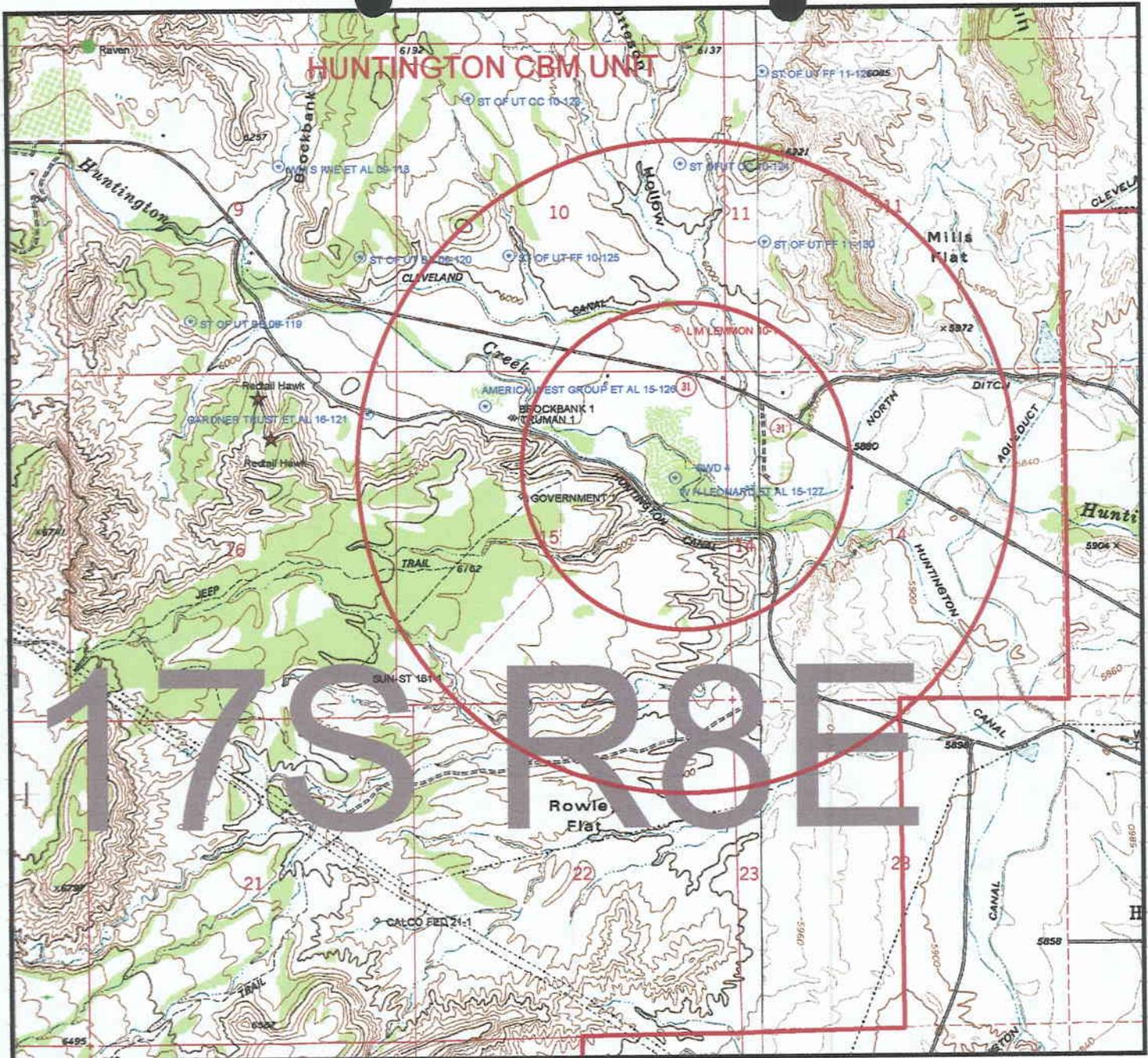
Date: 14/May/2001

Conditions of Approval/Application for Permit to Drill:

1. The location and pit are to be bermed and Rip Wrapped on all the outside containment walls
2. Containment walls will be built prior to drilling the well.
3. Minimum 12 mil synthetic pit liner is required.
4. Topsoil stockpiling is to be in a long low berm rather than a tall pile or heap.
5. Site infrastructure and soil storage as per drilling location plat.



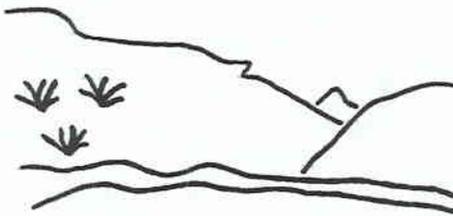
TEXACO, SWD #4, SEC. 15, T17S, R8E, EMERY COUNTY, API 43-015-30490



Well 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

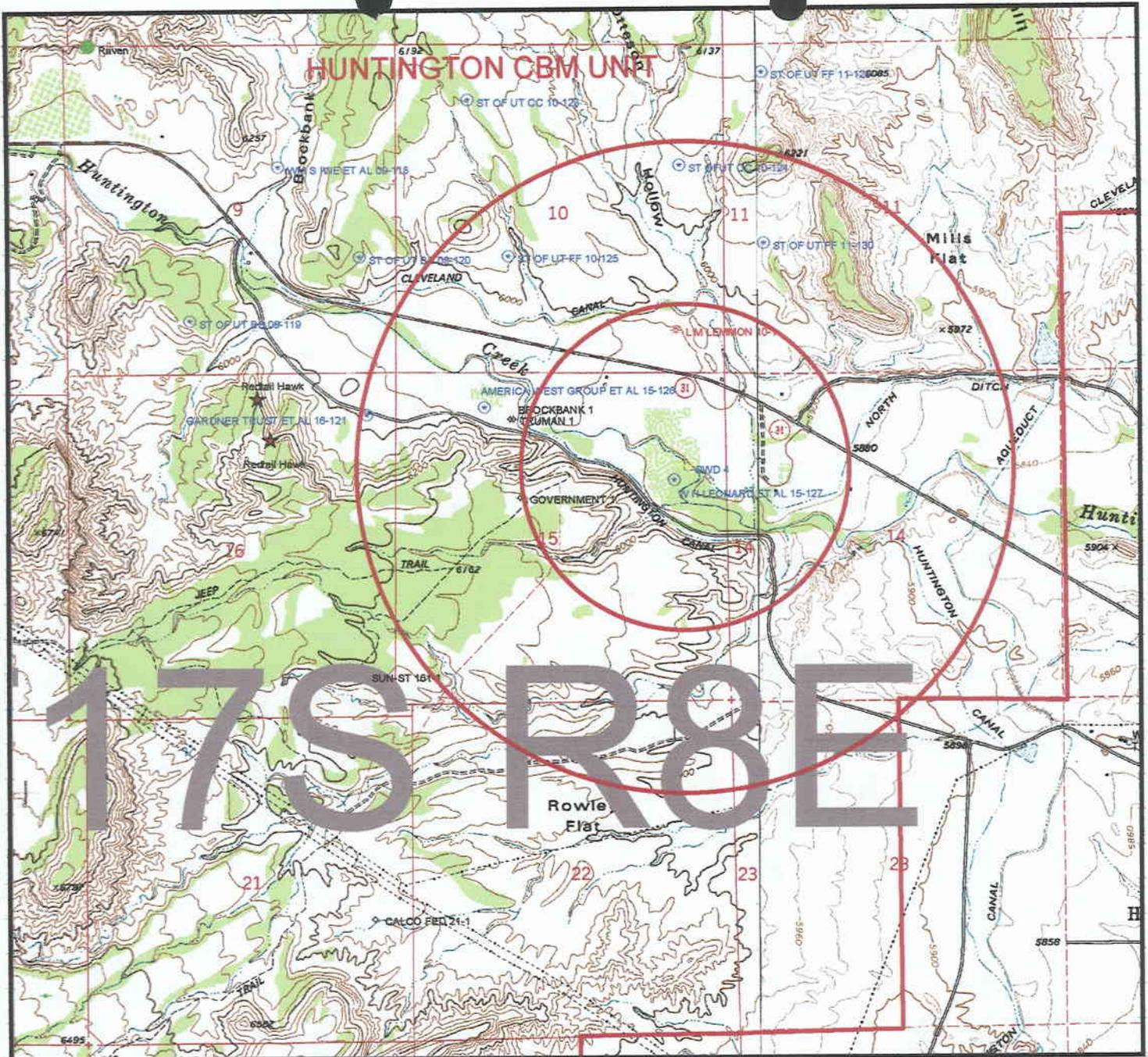
- ▭ Sections
- ▭ Township



Utah Oil Gas and Mining

The Division of Oil, Gas & Mining does not warrant or guarantee the accuracy of any data or information contained herein, and is not responsible for the accuracy of data not under its immediate control. The customer has requested data to be projected where there is no official survey, it is not be used as reliable data.



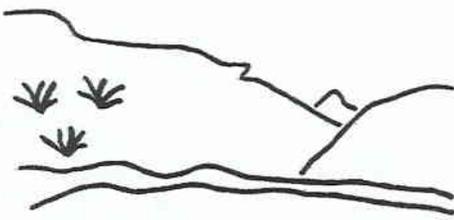


17S R8E

Well 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

- ▭ Sections
- ▭ Township



Utah Oil Gas and Mining

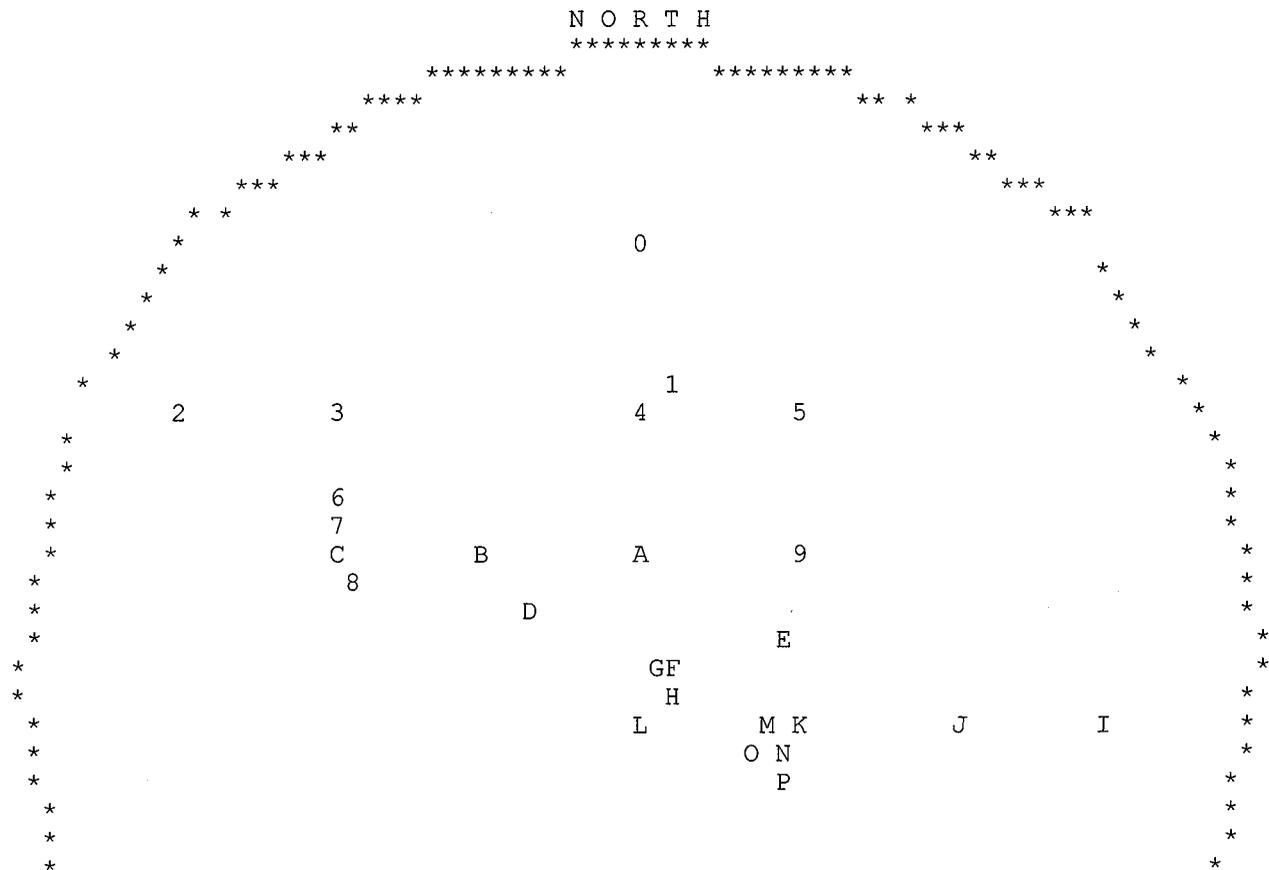
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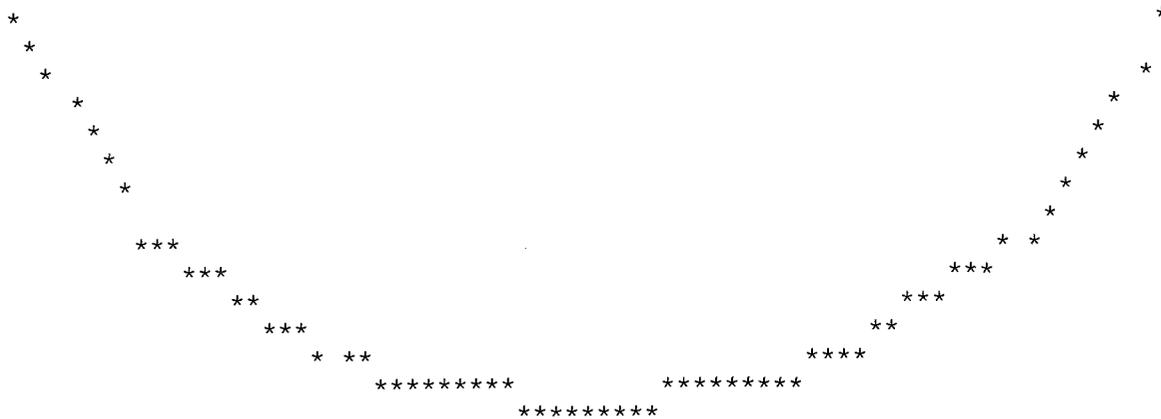


UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED THU, MAY 10, 2001, 2:47 PM
PLOT SHOWS LOCATION OF 82 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT
S 1557 FEET, W 692 FEET OF THE NE CORNER,
SECTION 15 TOWNSHIP 17S RANGE 8E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION	or WELL INFO	POINT OF DIVERSION DESCRIPTION
CHAR	RIGHT	CFS	AND/OR AC-FT	DIAMETER	DEPTH	YEAR LOG NORTH EAST CNR SEC TWN RNG B&M
0	93 565	.0000	.00	Chris Otteson Wash		
				WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19
				State of Utah School & Institutional Tru 675 East 500 South, Suite 500		Salt Lake City
1	a14199	.0000	5500.00	Huntington Creek		N 960 W 440 NE 15 17S 8E SL
				WATER USE(S): IRRIGATION STOCKWATERING OTHER		PRIORITY DATE: 02/06/19
				USA Bureau of Reclamation 302 East 1860 South		Provo
2	93 237	.0000	.00	Huntington Creek		
				WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
				Lemmon, Wilton L.		Huntington
3	93 237	.0000	.00	Huntington Creek		
				WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
				Lemmon, Wilton L.		Huntington

8	<u>93 2239</u>	77.2500	.00	Huntington Creek (Huntington C	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION STOCKWATERING								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 2238</u>	45.0000	.00	Huntington Creek (Huntington C	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION STOCKWATERING								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 272</u>	150.0000	.00	Huntington Creek (Huntington C	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION STOCKWATERING								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 3722</u>	2.7200	.00	Deer Creek Mine Effluent Water	S	850	E	2150	NW 15 17S	8E SL	PRIORITY DATE: 07/27/19	
				WATER USE(S): IRRIGATION								Huntington
				Thomson, Garth E. & Jeanine J. P.O. Box 338								
8	<u>93 1137</u>	.0000	3274.71	Lake Canyon Creek (Cleveland R	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 951</u>	.0000	9892.62	Miller Flat Creek (Miller Flat	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 08/03/19	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 3195</u>	.0000	2000.00	Lake Canyon Creek (Cleveland R	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 02/28/19	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 950</u>	.0000	465.00	Rolfson Creek (Rolfson Reservo	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 01/12/19	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 1138</u>	.0000	50.00	Lake Canyon Creek (Cleveland R	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 1139</u>	.0000	58.00	Lake Canyon Creek (Cleveland R	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 928</u>	.0000	600.00	Lake Fork Creek (Huntington Re	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 07/25/19	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								
8	<u>93 1136</u>	.0000	2025.00	Lake Fork Creek (Huntington Re	S	850	W	530	N4 15 17S	8E SL	PRIORITY DATE: 00/00/18	
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER								Huntington
				Huntington Cleveland Irrigation Company P.O. Box 327								

H	<u>93 3727</u>	.0000	.00	Huntington Creek (North Ditch)	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 00/00/18
				WATER USE(S):										Huntington
				Huntington-Cleveland Irrigation Company										Salt Lake City
				LDs Church Corporation of the Presiding										50 East North Temple Street
H	<u>93 1137</u>	.0000	3274.71	Lake Canyon Creek (Cleveland R	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 00/00/18
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 3195</u>	.0000	2000.00	Lake Canyon Creek (Cleveland R	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 02/28/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 951</u>	.0000	9892.62	Miller Flat Creek (Miller Flat	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 08/03/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 1138</u>	.0000	50.00	Lake Canyon Creek (Cleveland R	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 00/00/18
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 1139</u>	.0000	58.00	Lake Canyon Creek (Cleveland R	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 00/00/18
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 950</u>	.0000	465.00	Rolfson Creek (Rolfson Reservo	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 01/12/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 928</u>	.0000	600.00	Lake Fork Creek (Huntington Re	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 07/25/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>93 1136</u>	.0000	2025.00	Lake Fork Creek (Huntington Re	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 00/00/18
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington Cleveland Irrigation Company										P.O. Box 327
H	<u>a7941</u>	392.2500	.00	Huntington Creek and Tributari	N	960	W	440	E4	15	17S	8E	SL	PRIORITY DATE: 06/19/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING POWER OTHER										Huntington
				Huntington-Cleveland Irrigation Company										P.O. Box 327
H	<u>a7940</u>	.0000	18365.33	(4) Unnamed Reservoirs										PRIORITY DATE: 06/19/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL POWER OTHER										Huntington
				Huntington-Cleveland Irrigation Company										55 North Main
H	<u>a14107</u>	.0000	3000.00	Lake Fork Creek										PRIORITY DATE: 02/28/19
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING MUNICIPAL MINING POWER										

	State of Utah Board of Water Resources	1594 West North Temple, Ste 310	Salt Lake City
H	<u>a15762</u> .0000 31264.00	Huntington Creek	
	WATER USE(S): IRRIGATION MUNICIPAL POWER		PRIORITY DATE: 07/30/19
	Pacificorp dba Utah Power & Light Compan	1407 West North Temple	Salt Lake City
I	<u>93 419</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
	Lemmon, Wilton Lee & Lee M.	P.O. Box 764	Huntington
I	<u>93 419</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
	Lemmon, Wilton Lee & Lee M.	P.O. Box 764	Huntington
J	<u>93 295</u> .1000 .00	Brasher Springs	
	WATER USE(S): IRRIGATION STOCKWATERING		PRIORITY DATE: 00/00/19
	Brasher, Bryce		Huntington
J	<u>93 418</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
	Brasher, Reed		Huntington
J	<u>93 418</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
	Brasher, Reed		Huntington
K	<u>93 417</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19
	Otteson, Ara & Nellie		Huntington
K	<u>93 416</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/18
	Collard, Bruce and Elma		Huntington
K	<u>93 1191</u> .0000 .00	Ottson Wash	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19
	Otteson, Ara & Nellie		Huntington
L	<u>93 415</u> .0000 .00	Huntington Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19
	State of Utah Division of Wildlife Resou	1594 West North Temple, Ste 2110	Salt Lake City
M	<u>93 569</u> .0000 .00	Otteson Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19
	Collard, Max and Elma		Huntington
M	<u>93 1190</u> .0000 .00	Ottson Creek	
	WATER USE(S): STOCKWATERING		PRIORITY DATE: 00/00/19

	Collard, Max and Elma		Huntington
N	<u>93 1190</u> .0000 .00 Ottson Creek WATER USE(S): STOCKWATERING Collard, Max and Elma		PRIORITY DATE: 00/00/19 Huntington
N	<u>93 1191</u> .0000 .00 Ottson Wash WATER USE(S): STOCKWATERING Otteson, Ara & Nellie		PRIORITY DATE: 00/00/19 Huntington
O	<u>93 1188</u> .0000 .00 Huntington Creek WATER USE(S): STOCKWATERING Collard, Max and Elma		PRIORITY DATE: 00/00/19 Huntington
O	<u>93 416</u> .0000 .00 Huntington Creek WATER USE(S): STOCKWATERING Collard, Bruce and Elma		PRIORITY DATE: 00/00/18 Huntington
P	<u>93 417</u> .0000 .00 Huntington Creek WATER USE(S): STOCKWATERING Otteson, Ara & Nellie		PRIORITY DATE: 00/00/19 Huntington
P	<u>93 1188</u> .0000 .00 Huntington Creek WATER USE(S): STOCKWATERING Collard, Max and Elma		PRIORITY DATE: 00/00/19 Huntington

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: Texaco Exploration and Production, Inc.

WELL NAME & NUMBER: SWD #4

API NUMBER: 43-015-30490 **LEASE:** FEE **FIELD/UNIT:** Undesignated

LOCATION: 1/4,1/4 SE NE Sec: 15 TWP: 17 S RNG: 8 E 1557 FNL 692 FEL

LEGAL WELL SITING: Unit Spacing Cause Number 245-2

GPS COORD (UTM): X = 499,644 E; Y=4,355,147 N **SURFACE OWNER:** TEXACO

PARTICIPANTS:

K.M. Hebertson (DOGM), Ron Wirth, (Texaco), Alan Child (Talon Res.), Bryant Anderson (Emery County). Willian Nielson (Surface Owner) has given his blessing to the well site and has already done some work to clear the site.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Western margin of Colorado Plateau. This location is in the creek bottoms of Huntington Creek, along highway 31 west of Huntington Utah. The area is dominated by P-J and sagebrush vegetation, this location is in a cultivated field which slopes to the north towards Huntington Creek. It is about 3½ miles east of the foot of the Wasatch Plateau and 3 miles east of the Huntington Canyon power plant Huntington, UT is ~4 miles east.

SURFACE USE PLAN

CURRENT SURFACE USE: Grazing and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 260' X 170' pad with 44' X 80' X 8' inboard pit 540' of new or improved access road is required.

LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS: One Producing status well, ten other drilling permits , and four PA status wells are within one mile of this location.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Buried power line and gathering system will follow the approach road. Production facilities include a pumpjack, separator enclosure, and casing and tubing strings, well head, telemetry equipment and transformer.

SOURCE OF CONSTRUCTION MATERIAL: Gravel location and approach road; soil stored in berm.

ANCILLARY FACILITIES: None requested.

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into a portable metal container which will be emptied into an approved landfill. Crude oil production is not expected but if it is encountered will be

retained in tanks and sold. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. The quality and quantity of any produced water will determine the method of disposal. Used oil from drilling operations and support is hauled to a used oil re-cycler and re-used.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Sagebrush, P-J, grasses / birds, lizards, coyotes, rodents, raptors, elk and deer critical winter range, reptiles.

SOIL TYPE AND CHARACTERISTICS: Sandy, silty, moderately permeable soil developed on Quaternary / Tertiary Pediment Mantle. The whole site is underlain with river run gravels and sand with high clay content.

SURFACE FORMATION & CHARACTERISTICS: Quaternary / Tertiary Pediment Mantle covering the Upper Part of the Blue Gate Shale Member of the Mancos Shale, and sandstone ledges.

EROSION/SEDIMENTATION/STABILITY: Stable.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Dugout, earthen pit as described above.

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner.

SURFACE RESTORATION/RECLAMATION PLAN

As directed by the surface use agreement.

SURFACE AGREEMENT: Not executed at the time of the Presite.

CULTURAL RESOURCES/ARCHAEOLOGY: Not required

OTHER OBSERVATIONS/COMMENTS

Access to this location is through a secured gate belonging to TEXACO E&P and will be part of a central processing facility that is being designed with compressors, water treatment and storage. The whole facility lies in the flood plane of Huntington Creek, and is being designed to withstand a one hundred year flooding event with dikes and rip wrap walls to secure the site. The well will be the feature of the facility closest to the creek and should be adequately protected.

ATTACHMENTS:

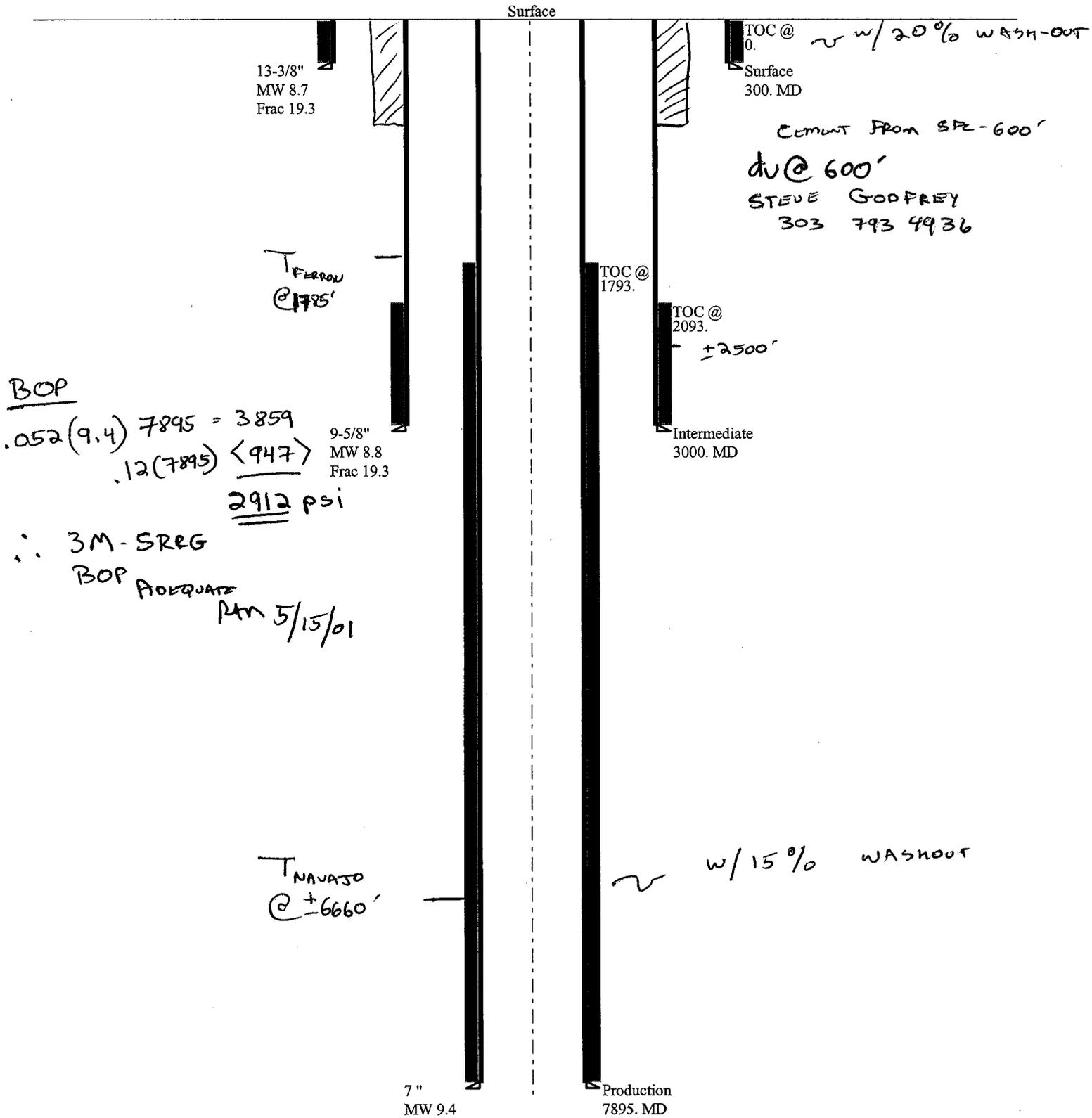
4 photographs taken.

K. Michael Hebertson
DOGM REPRESENTATIVE

14 /May/2001 12:00 PM
DATE/TIME

05-01 Texaco SWD #4

Casing Schematic



Well name:

05-01 Texaco SWD #4

Operator: **Texaco E&P**

String type: Production

Project ID:

43-015-30490

Location: Emery County, Utah

Design parameters:

Collapse

Mud weight: 9.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 176 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 1,793 ft

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.488 psi/ft
Calculated BHP 3,855 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.
Neutral point: 6,779 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7895	7	23.00	N-80	LT&C	7895	7895	6.25	364.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3855	3830	0.99	3855	6340	1.64	182	442	2.43 J

ROUND TO 1

7" 23#

CASING RUN IN LAST SWD NEWS.
TEXACO USING COLLAPSE OF 1.00.
R.A.M.

Prepared by: R.A. McKee
Utah Dept. of Natural Resources

Phone: (801) 538-5274
FAX: (801)359-3940

Date: May 15,2001
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

05-01 Texaco SWD #4

Operator: **Texaco E&P**

String type: Intermediate

Project ID:

43-015-30490

Location: Emery County, Utah

Design parameters:

Collapse

Mud weight: 8.800 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.488 psi/ft
Calculated BHP: 1,465 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,609 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 107 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: ~~2,093~~ ft

Non-directional string.

Re subsequent strings:

Next setting depth: 7,895 ft
Next mud weight: 9.400 ppg
Next setting BHP: 3,855 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 3,000 ft
Injection pressure: 3,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3000	9.625	36.00	K-55	LT&C	3000	3000	8.765	213.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1371	2020	1.47	1465	3520	2.40	108	489	4.53 J

Prepared by: R.A. McKee
Utah Dept. of Natural Resources

Phone: (801) 538-5274
FAX: (801)359-3940

Date: May 15,2001
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	05-01 Texaco SWD #4	
Operator:	Texaco E&P	Project ID:
String type:	Surface	43-015-30490
Location:	Emery County, Utah	

Design parameters:

Collapse

Mud weight: 8.700 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.457 psi/ft
Calculated BHP: 137 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 262 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 69 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 300 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:

Next setting depth: 3,000 ft
Next mud weight: 8.800 ppg
Next setting BHP: 1,371 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 300 ft
Injection pressure: 300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	300	13.375	48.00	H-40	ST&C	300	300	12.59	28.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	136	740	5.46	137	1730	12.61	14	322	22.36 J

Prepared by: R.A. McKee
Utah Dept. of Natural Resources

Phone: (801) 538-5274
FAX: (801)359-3940

Date: May 15,2001
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>15</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>20</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Based Mud	15	
Fluid containing significant levels of hazardous constituents	20	<u>2</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>10</u>

Final Score 62 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

May 24, 2001

Texaco Exploration & Production, Inc.
3300 N Butler
Farmington, NM 87401

Re: SWD 4 Well, 1557' FNL, 692' FEL, SE NE, Sec. 15, T. 17 South, R. 8 East,
Emery 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 43-015-30490.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza
Associate Director

er

Enclosures

cc: Emery County Assessor

Operator: Texaco Exploration & Production, Inc.
Well Name & Number SWD 4
API Number: 43-015-30490
Lease: Patented

Location: SE NE **Sec.** 15 **T.** 17 South **R.** 8 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

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

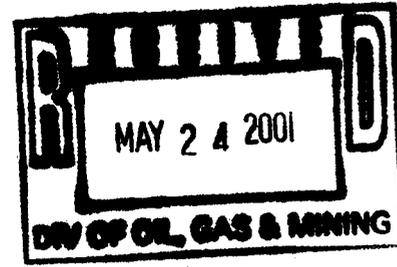
- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

5. After the 7" casing has been run and cemented in place, a cement bond log (CBL) shall be run with 1000 psi at the surface.



FAX TRANSMITTAL COVER SHEET

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 5-24-01 URGENT ROUTINE NO. OF PAGES 3 + C

MESSAGE TO: Lisha Cordova

TELEPHONE NO. _____ FAX MACHINE NO. 801-359-3940

DEPT./DIV./SUBS. _____

LOCATION SLC, UT ROOM NO. _____

MESSAGE FROM: CHUCK SNURE

TELEPHONE NO. _____ FAX MACHINE NO. _____

DEPT./DIV./SUBS. _____

LOCATION DENVER, CO. ROOM NO. _____

SENDING DEPT. APPROVAL _____ TIME TRANSMITTED _____

RETURN ORIGINAL VIA INTER-OFFICE MAIL RETURN ORIGINAL CALL SENDER TO PICK UP

ADDITIONAL COMMENTS:

WD FDR SWD #4
HUNTINGTON UNIT

WARRANTY DEED

JOHN NIELSON, LTD., P.O. Box 620, Huntington, Utah 84528 (GRANTOR), for the sum of Ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby grants, conveys and warrants to TEXACO EXPLORATION AND PRODUCTION INC., P.O. Box 2100, Denver, Colorado 80201 (GRANTEE), the surface only of the following tract of land in Emery County, Utah:

Township 17 South, Range 8 East, SLB&M

Beginning at a point being 1046.49' South, and 1316.82' West of the Northeast Corner of Section 15, T17S, R8E, SLB&M, said beginning point is located at the intersection of Huntington Creek and the 40 acre line; thence running S00°24'35"W 1605.06', more or less, to the quarter section line; thence S89°52'16"E 1266.32' along the ¼ Section line to a point located S00°33'00" W 59.26' from the corner of the North South trending fence line; thence N00°33'00"E 59.26' to a point on the North County Road ROW, said point being on the North South trending fence line; thence N00°33'00"E 436.80', more or less, along the existing fence line to the center of Huntington Creek; thence N77°25'21"W 102.16'; thence N31°05'40"W 57.63'; thence N86°32'23"W 195.82'; thence S76°25'12"W 211.77'; thence N47°36'15"W 96.63'; thence N78°13'29"W 59.52'; thence N31°14'31"W 109.23'; thence N37°24'23"E 235.48'; thence N72°49'04"E 49.67'; thence S77°01'27"E 76.79'; thence N33°50'40"E 114.43'; thence N03°46'11"W 86.24'; thence N57°48'12"W 61.87'; thence N26°49'44"W 105.02'; thence N55°54'38" 58.71'; thence N39°06'09"W 60.30'; thence N68°09'54"W 62.29'; thence S65°16'56"W 93.75'; thence N88°13'06"W 80.80'; thence N56°52'35"W 39.67'; thence N14°22'56"W 227.26'; thence N35°13'59"E 62.24'; thence N14°22'04"W 106.35'; thence S86°01'22"W 82.06'; thence S65°12'19"W 70.03'; thence N85°36'23"W 62.67'; thence N72°28'20"W 53.03'; thence N23°04'20"E 40.45'; thence N77°19'02"W 49.05'; thence S47°34'55"W 100.79'; thence S69°48'22"W 35.87', more or less, to the point of beginning, SAVE AND EXCEPT the County Road ROW and the Huntington Canal ROW, leaving 31.5 acres, more or less.

As additional consideration herein, it is understood and agreed that at Grantee's sole discretion and upon the cessation of operations by Grantee on the lands conveyed by Grantor hereunder, Grantee shall re-convey said lands to Grantor. Upon such re-conveyance, Grantor hereunder shall indemnify, release and forever discharge Grantee hereunder, its successors and assigns,

from all claims, demands, actions or causes of actions resulting or that may result from Grantor's ownership of and operations on said lands on or after the effective date of said re-conveyance.

Executed this 15 day of May, 2001.

John Nielson, Ltd.

Wayne L. Nielson
By:

STATE OF UTAH)
)
COUNTY OF)

The foregoing Warranty Deed was acknowledged before me this 15 day of May, 2001 by Wayne L. Nielson, as Partner of John Nielson, Ltd.

Kirk S. Murray
NOTARY PUBLIC
My Commiission Expires:



ENTITY ACTION FORM

Operator: Texaco E & P, Inc
Address: 3300 North Butler
city Farmington
state NM zip 97401

Operator Account Number: N 5700

Phone Number: (505) 325-4397

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301530490	State of Utah SWD 4 Well		SENE	15	17S	8E	EMERY
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	13366	10/22/2001			10-30-01	
Comments: CONFIDENTIAL							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Ian M. Kephart
Name (Please Print)

Signature
Engineer
Title

RECEIVED
OCT 21 2001

DIVISION OF
OIL, GAS AND MINING
10/22/2001

Date



Texaco Exploration
and Production Inc.
Denver Region

3300 North Butler
Farmington, NM 87401
505 325-4397

CONFIDENTIAL

November 21, 2001

Lisha Cordova
State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: **State of Utah Form 9**
Drilling Reports
SWD #4; Sec. 15, Twn. 17S, 8E; Emery County, UT

Dear Lisha:

Attached is Division of Oil, Gas and Mining Form 9 along with the Texaco drilling reports for the subject well.

Please note that the well was drilled to a TD of 8005' which differs from the original TD of 7895' on the approved APD. Please use this sundry as notice reflecting that change.

Thank you very much for your time and consideration on this matter. Please feel free to contact me at (505) 325-4397, ext-105 if you have any questions.

Sincerely,

Ian M. Kephart
Ferron Production Engineer

cc: Farmington well file

RECEIVED

NOV 29 2001

DIVISION OF
OIL, GAS AND MINING



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 1 Date: 10/20/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS			
FIELD: HUNNINGTON		RKB: 5,910.00 (ft)				DOL/DFS: 3.00 /			
SPUD DATE: 10/20/2001						MD/TVD: 427 (ft) / 427 (ft)			
RIG: PATTERSON RIG # 155 155						24 HR ROP:			
DRLG SUPRS:		NEXT CSG: 9.625 (in) @ 3,000 (ft)				FOOTAGE: (ft)			
Lee Vaughan 435-687 2700						DRILL HRS:			
RIG PHONE:						PROPOSED TD: 8,000 (ft)			
CELLPHONE:						AFE Days +/- Goal:			
ENGR: Dave Wojahn 793 4918									

CASING						COSTS ORIG DRILLING					
CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
13.375	423	423			N	0	0	0	0	0	0
						0	0	0	0	0	0
						5,632	0	0	600	0	6,232
						5,632	0	0	600	0	6,232

CURRENT OP AT REP TIME: NIPPLE UP BOPS
 PLANNED OPERATIONS: NU , TEST BOPS & DRILL OUT

SAFETY SUMMARY				
MANHRS WORKED: 216.00	SAFETY MTGS ATTENDED:	DAYS SINCE LAST LTA RIG/OPER: /	REC: N	F/A: N
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	GOVT INSP?	
INCIDENT DESCRIPTION:				

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
6.00	PT	014	NIPPLE UP BOPS

PERSONNEL DATA				
COMPANY	#	MAN HRS	COMPANY	POB: 15
TEXACO	1	24.00	CALLAWAY	1
PATTERSON	11	144.00	WEATHERFORD	2
				24.00
				24.00

Comments

Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 2 Date: 10/21/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS							
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)					MD/TVD: 422 (ft) / 422 (ft)	DOL/DFS: 4.00 /						
SPUD DATE: 10/22/2001						FOOTAGE: (ft)	24 HR ROP:						
RIG: PATTERSON RIG # 155 155	NEXT CSG: 9.625 (in) @ 3,000 (ft)					DRILL HRS:	PROPOSED TD: 8,000 (ft)						
DRLG SUPRS: Lee Vaughan 435-687 2700							AFE Days +/- Goal:						
RIG PHONE:		CASING				COSTS ORIG DRILLING							
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR: Dave Wojahn 793 4918		13.375	423	423			N	Est. 1,158,000	0	0	0	0	1,158,000
								Est+OE 1,158,000	0	0	0	0	1,158,000
								Cum 7,232	0	3,521	600	512	11,865
								Daily 1,600	0	3,521	0	512	5,633

CURRENT OP AT REP TIME: RIGGING UP
PLANNED OPERATIONS: RUN IN HOLE BHA # 1 AND DRILL OUT

SAFETY SUMMARY

MANHRS WORKED: 270.00 SAFETY MTGS ATTENDED: 2 DAYS SINCE LAST LTA RIG/OPER: 4 / REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY

HRS	P/NPT	CODE	DESCRIPTION
11.00	PT	015	NIPPLE UP & TEST BOPS, MANIFOLD & RELATED VALVES. 250 PSI LOW & 3000 HIGH. ANNULAR TO 1500 PSI.
13.00	N1	001	CONTINUE TO N/UP. SWACO & WEATHERFORD EQUIP. RIGGED UP. SHOULD BE SPURRED THIS PM.

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	BOP TESTER	1	12.00
PATTERSON	11	144.00	WELDERS	2	24.00
CALLAWAY	1	24.00	DRIVERS	2	18.00
WEATHERFORD	2	24.00			

Comments

Rig # 435-687 2700 , Cell.915-642 0464

DAILY OPERATIONAL COMMENTS

RIG CREW NIPPLED UP BUT WAS NOT READY TO SPUD



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rot #: 3 Date: 10/22/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS							
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)					MD/TVD: 504 (ft) / 504 (ft)	DOL/DFS: 5.00 / 1.00						
SPUD DATE: 10/22/2001						FOOTAGE: 82 (ft)	24 HR ROP: 16.40						
RIG: PATTERSON RIG # 155 155	NEXT CSG: 9.625 (in) @ 3,000 (ft)					DRILL HRS: 5.00	PROPOSED TD: 8,000 (ft)						
DRLG SUPRS: Lee Vaughan 435-687 2700						AFE Days +/- Goal:							
RIG PHONE:		CASING				COSTS ORIG DRILLING							
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR: Dave Wojahn 793 4918		13.375	423	423			N	Est. 1,158,000	0	0	0	0	1,158,000
								Est+OE 1,158,000	0	0	0	0	1,158,000
								Cum 14,165	0	153,289	600	15,649	183,703
								Daily 6,933	0	149,768	0	15,137	171,838

CURRENT OP AT REP TIME: TRIPPING BIT
PLANNED OPERATIONS: DRILL W/HAMMER

SAFETY SUMMARY

MANHRS WORKED: 224.00 SAFETY MTGS ATTENDED: 2 DAYS SINCE LAST LTA RIG/OPER: 5 / REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY

HRS	P/NPT	CODE	DESCRIPTION
6.00	PT	001	RIGGING UP & REPAIRING LEAKS IN MUD PITS WITH WELDER
2.50	PT	025	PICK UP 12 1/4" BIT & 1EA 8" DRILL COLLAR & START WASHING OUT MOUSE HOLE.
1.00	N1	025	WORK ON PUMP
2.00	N6	025	WASH ON BOULDER IN MOUSE HOLE (ROTATING WITH ROTARY TONGS)
2.00	PT	006	PICK UP 10 EA 6" DRILL COLLARS
0.50	PT	009	TAG CMT @ 382'
1.00	PT	026	SAFETY MEETING,RIG SERVICE & CIRCULATE.
2.00	PT	003	DRILL CMT TO 420'
0.50	PT	016	TEST CSG TO 1000' OK
1.50	PT	003	DRILL SHOE & FORMATION TO 440'
0.50	PT	003	INSTALL R/H RUBBER & DRIVE BUSHING
4.50	PT	003	PUT AIR ON HOLE & DRILL TO 504' UNLOADING HOLE. 1600 CFM AIR ON HOLE. ON 10/21/01 REPORT, 12 HRS WAS N/U & TEST BOPS & 12 HRS WAS ON PATTERSON RIGGING UP.

BHA #2	BIT #1	BHA / HOLE CONDITIONS			
BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
639.99		2.312			
BHA LENGTH: 639.99		MIN ID: 2.312		BHA HRS SINCE LAST INSPECTION:	
BHA DESCRIPTION: 1-Thermally Stable Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 18-Drill Collar					

HYDRAULICS / PUMPS

FLOW RATE: 279.07	HSI:	IMPACT: .00	JET VEL:	AV DC:	AV DP:	ECD					
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	100	279.07	600	95.0	/		/	

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	WEATHERFORD	2	24.00
PATTERSON	11	144.00	PASON	1	8.00
CALLAWAY	1	24.00			

Comments

Rig # 435-687 2700 , Cell.915-642 0464 DAILY COST INCLUDES MOB & DE-MOB

DAILY OPERATIONAL COMMENTS

ON 10/21/01 REPORT 12 HRS WAS ON BOPS N/U & TESTING & 12 HRS ON PATTERSON RIGGING UP..



TEXACO EXPLORATION & PRODUCTION, INC.

MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 4 Date: 10/23/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS						
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 9,625 (in) @ 3,000 (ft)				MD/TVD: 910 (ft) / 910 (ft) FOOTAGE: 406 (ft) DRILL HRS: 10.00 DOL/DFS: 6.00 / 2.00 24 HR ROP: 40.60 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:						
CASING						COSTS ORIG DRILLING						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
13.375	423	423			N	0	0	0	0	0	0	0
						Est+OE	0	0	0	0	0	0
						Cum	23,765	0	159,705	600	16,451	200,521
						Daily	9,600	0	6,416	0	802	16,818

CURRENT OP AT REP TIME: DRILLING WITH AIR
PLANNED OPERATIONS: DRILL 12 1/4" HOLE

SAFETY SUMMARY

MANHRS WORKED: 244.00 SAFETY MTGS ATTENDED: 6 DAYS SINCE LAST LTA RIG/OPER: 6/ REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY

HRS	P/NPT	CODE	DESCRIPTION
1.50	PT	007	POH TO PICK UP HAMMER
1.50	PT	006	LAY DOWN BIT & PICK UP HAMMER & SOLID HEAD BIT
1.00	PT	006	RIH TO 90' & HIT BRIDGE IN CSG
2.00	PT	007	POH,LAY HAMMER DOWN & RIH WITH 12 1/4" TRI-CONE BIT
5.00	PT	029	WASH & REAM TO 504' , CIRC HOLE CLEAN & BLOW DOWN WITH AIR
1.00	PT	007	POH & P/U HAMMER & BIT
1.00	PT	006	RIH TO 504'
1.00	PT	003	DRILL F/504' TO 506'
0.50	N1	031	WORK ON BLOOIE LINE DRESSER SLEEVE
3.00	PT	003	DRILL F/506' TO 604'
0.50	PT	012	WLS @ 559' 2 DEG.
6.00	PT	003	DRILL F/604' TO 910' 3200 CFM ON HOLE. WE WERE NOT CLEANING THE HOLE WITH LESS AIR.

BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	1	12.250	Smith	F-2	517X	LW 8756	160/16/16/////	422.0	504.0								
1	2	12.250	Ingersol	SOLID HE				504.0									

BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P.BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	1	15 / 15	60 / 60	279	600				16.40	5.00	82.0	16.40
1	2	10 /	35 / 35				10.00	406	40.60	10.00	406.0	40.60

BHA #2 BIT #1 BHA / HOLE CONDITIONS

BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
639.99		2.312			

BHA LENGTH: 639.99 MIN ID: 2.312 BHA HRS SINCE LAST INSPECTION:

BHA DESCRIPTION: 1-Thermally Stable Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 18-Drill Collar

SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
659	2.000	0.000	658.87	11.50	11.50	0.00							

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	WEATHERFORD	4	48.00
PATTERSON	11	144.00	NIELSONS	1	4.00
CALLAWAY	1	24.00			

CONFIDENTIAL



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Page 2 of 2

Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 4 Date: 10/23/2001

Comments

Rig # 435-687 2700 , Cell.915-642 0464

DAILY OPERATIONAL COMMENTS

TALKED TO RIG SUPT, JESSE BLANCHARD ABOUT THE LOSS OF TIME DUE TO THE DRILLER NOT FOLLOWING INSTRUCTIONS & WAS TOLD RICHARD PILGRAM HANDLED THESE PROBLEMS



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD #4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 5 Date: 10/24/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS						
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 9.625 (in) @ 3,000 (ft)				MD/TVD: 2,208 (ft) / 2,208 (ft) FOOTAGE: 1,298 (ft) DRILL HRS: 21.50 DOL/DFS: 7.00 / 3.00 24 HR ROP: 60.37 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:						
CASING						COSTS ORIG DRILLING						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	Comp Cash	Comp MOH	Conteng	TOTAL
13.375	423	423			N	0	0	0	0	0	0	0
						Est+OE	0	0	0	0	0	0
						Cum	33,365	0	202,684	600	20,908	257,558
						Daily	9,600	0	42,979	0	4,458	57,037

CURRENT OP AT REP TIME: DRILLING 12 1/4" HOLE
PLANNED OPERATIONS: DRILL , TD HOLE & RUN CSG.

SAFETY SUMMARY					
MANHRS WORKED: 244.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 7 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
4.00	PT	003	DRILL F/910' TO 1134'
0.50	PT	012	RIG SERVICE, SAFETY MEETING & WLS @ 1089'=3/4 DEG.
7.00	PT	003	DRILL F/1134' TO 1697' DUSTING W/3200 CFM
0.50	PT	012	WLS @ 1652' 1 DEG
7.50	PT	003	DRILL F/1697' TO 2075'
0.50	PT	012	WLS @ 2026' 1 1/4 DEG
0.50	N2	025	REPAIR BLOOIE LINE
3.50	PT	003	DRILL F/2075' TO 2208' 3200 CFM & NO HOLE PROBLEMS

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	2	12.250	Ingersol	SOLID HE				504.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	10 / 15	40 / 40				21.50	1,298	60.37	31.50	1,704.0	54.10

BHA / HOLE CONDITIONS							
BHA #3	BIT #2	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	80 (klb)	72 (klb)	75 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 0.00		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION:-							

SURVEY DATA															
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG LEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG LEG		
1,089	0.750	0.000	1,088.73	21.82	21.82	0.00	0.29	2,026	1.250	0.000	2,025.60	37.76	37.76	0.00	0.07
1,652	1.000	0.000	1,651.67	30.42	30.42	0.00	0.04								

PERSONNEL DATA					
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	WEATHERFORD	4	48.00
PATTERSON	11	144.00	NIELSONS	1	4.00
CALLAWAY	1	24.00			

Comments
Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD #4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 6 Date: 10/25/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS											
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)	MD/TVD: 3,015 (ft) / 3,015 (ft)		DOL/DFS: 8.00 / 4.00													
SPUD DATE: 10/22/2001		FOOTAGE: 807 (ft)		24 HR ROP: 52.06													
RIG: PATTERSON RIG # 155 155	NEXT CSG: 9.625 (in) @ 3,000 (ft)	DRILL HRS: 15.50		PROPOSED TD: 8,000 (ft)													
DRLG SUPRS: Lee Vaughan 435-687 2700		AFE Days +/- Goal:															
RIG PHONE:		COSTS ORIG DRILLING															
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR	Est	Est+OE	Cum	Daily	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR: Dave Wojahn 793 4918		13.375	423	423			N	0	0	42,965	9,600	0	0	222,209	600	23,021	288,795
								0	0			0	0	0	0	2,113	31,238

CURRENT OP AT REP TIME: SAFETY MEETING
 PLANNED OPERATIONS: RUN & CMT 9 5/8" CSG. N/D BOPS & INSTALL "B" SECTION

SAFETY SUMMARY			
MANHRS WORKED: 314.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 8 /	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
7.00	PT	003	DRILL F/2208' TO 2544'
0.50	PT	012	SAFETY MEETING, RIG SERVICE & WLS @ 2499 3/4 DEG
8.50	PT	003	DRILL F/2544' TO 2981'
3.50	PT	008	SHORT TRIP TO COLLARS. STRAP OUT OF HOLE. NO CORRECTION ON PIPE TALLEY.
0.50	PT	003	DRILL F/2981' TO 3015'. BLOW HOLE OUT
1.50	PT	007	POH
2.00	PT	007	RIG UP L/D MACHINE . LAY DOWN 3 EA 8" D/COLLARS & HAMMER. WLS 3000' 1 3/4 DEG
0.50	PT	-026	SAFETY MEETING & RIG UP CSG TOOLS

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	2	12.250	Ingersol	SOLID HE				504.0	3,015.0								

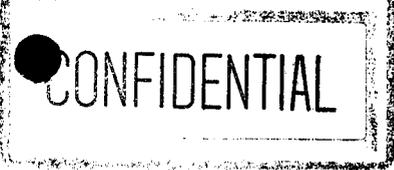
BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	10 / 10	40 / 40				15.50	807	52.06	62.50	4,125.0	66.00

BHA / HOLE CONDITIONS							
BHA # 1	BIT # 2	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
BHA LENGTH: 0.00		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION:-							

SURVEY DATA																
MD	INCL	AZIMUTH	TVD	VS	N/S	CUM E/W	CUM DOG LEG	MD	INCL	AZIMUTH	TVD	VS	N/S	CUM E/W	CUM DOG LEG	
2,499	0.750	0.000	2,498.52	46.01	46.01	0.00	0.11	3,012	1.750	0.000	3,011.39	57.21	57.21	0.00	0.19	

PERSONNEL DATA					
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	CIRCLE C CSG CLEANING	3	18.00
PATTERSON	11	144.00	PIPE TRUCKERS	3	18.00
CALLAWAY	1	4.00	ABB VETCO GRAY, INC.	1	2.00
WEATHERFORD	4	48.00	DOWELL	6	12.00
NIELSONS	1	4.00	R & S CSG CREW	5	40.00

Comments
 Rig # 435-687 2700 , Cell.915-642 0464 LEFT A MESSAGE AND TEL. # ON THE VOICE MAIL OF DAN JARVIS (STATE OFFICE) ON CMT. JOB.10/24/01 1315 HRS



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 7 Date: 10/26/2001

WELL INFO	ELEVATIONS	DEPTH/DAYS
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918	RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)	MD/TVD: 3,015 (ft) / 3,015 (ft) FOOTAGE: (ft) DRILL HRS:
		DOL/DFS: 9.00 / 5.00 24 HR ROP: PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:
	CASING	COSTS ORIG DRILLING
	CSG MD TVD TOL LO LNR	DH Cash DH MOH Comp Cash Comp MOH Conteng TOTAL
	9.625 3,015 3,015 N	Est 0 0 0 0 0
	13.375 423 423 N	Est+OE 0 0 0 0 0
		Cum 52,565 0 250,760 53,567 26,036 382,929
		Daily 9,600 0 28,551 52,967 3,015 94,133

CURRENT OP AT REP TIME: TESTING BOPS
PLANNED OPERATIONS: DRILL CMT, TEST CSG, MUD UP & DRILL OUT

SAFETY SUMMARY					
MANHRS WORKED: 298.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 9/	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
3.00	PT	030	RUN 67 JTS 9 5/8" J55 LTC 36# CSG. SHOE @ 3015' & FLOAT COLLAR @ 2966'
1.00	PT	030	RIG DOWN CSG TOOLS, SAFETY MEETING & RIG UP DOWELL
3.00	PT	021	MIX & PUMP LEAD CMT. 345 SKS CLASS G WITH 12% D20, 1% D79, 5% D112, 2% D46, 2% S1+25#/SKWATER D29 11# 3.63 YIELD. TAIL CMT 170 SKS CLASS G, 10-2 RFC+.25#/SKD29 14.2#/GAL 1.63 YIELD. DISPLACED WITH 229.6 BBLS FRESH WATER. BUMPED PLUG WITH 500 PSI OVER FINAL DISP PRESS. 60 BBLS CMT BACK
1.00	PT	030	RIG DOWN DOWELL & CLEAN OUT CELLAR
2.00	PT	014	SET SLIPS & NIPPLE DOWN BOPS
2.50	PT	014	INSTALL 13 5/8"x11"3M CSG HEAD & TEST TO 3000 PSI
10.00	PT	*014	NIPPLE UP BOPS. HAD PROBLEMS FITTING STACK IN AFTER SETTING THE "B" SECTION.
1.50	PT	015	TESTING BOPS AT REPORT TIME

PERSONNEL DATA					
COMPANY		#	MAN HRS	POB-28	
COMPANY		#	MAN HRS	COMPANY	
TEXACO		1	24.00	NIELSONS	
PATTERSON		11	144.00	PIPE TRUCKERS	
CALLAWAY		1	4.00	ABB VETCO GRAY, INC.	
WEATHERFORD		4	48.00	DOWELL	

Comments

Rig # 435-687 2700 , Cell 915-642 0464 LEFT A MESSAGE AND TEL. # ON THE VOICE MAIL OF DAN JARVIS (STATE OFFICE) ON CMT. JOB. 10/24/01 1315 HRS



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 8 Date: 10/27/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS								
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)	MD/TVD: 3,361 (ft) / 3,361 (ft)		DOL/DFS: 10.00 / 6.00		SPUD DATE: 10/22/2001		24 HR ROP: 26.62		FOOTAGE: 346 (ft)		PROPOSED TD: 8,000 (ft)		
RIG: PATTERSON RIG # 155 155	NEXT CSG: 7.000 (in) @ 8,000 (ft)	DRILL HRS: 13.00		AFE Days +/- Goal:		DRLG SUPRS: Lee Vaughan 435-687 2700								
RIG PHONE:		COSTS ORIG DRILLING												
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR: Dave Wojahn 793 4918		9.625	3,015	3,015			N	0	0	0	0	0	0	0
		13.375	423	423			N	0	0	0	0	0	0	0
								Cum	60,832	0	252,955	53,567	26,416	393,770
								Daily	8,267	0	2,195	0	380	10,842

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY					
MANHRS WORKED: 206.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 10 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
1.50	PT	015	TEST BOPS
1.50	PT	006	PICK UP 12 EA 6" DRILL COLLARS
1.50	PT	006	RIH & TAG CMT. @ 2966'
2.50	N1	031	RIG REPAIR (WORK ON TRANSFER PUMP FOR WATER)
0.50	PT	003	DRILL CMT,F/COLLAR & 25' SHOE TRACK CMT
0.50	PT	016	PRESSURE TEST CSG TO 1500 PSI (15 MIN.)
0.50	PT	005	CIRCULATE & CONDITION MUD
1.50	N1	031	WORK ON FLOW LINE & SHALE SHAKER
0.50	PT	005	CIRC.& CONDITION MUD
9.00	PT	003	DRILL SHOE & NEW HOLE TO 3275'
0.50	PT	012	SAFETY MEETING & WLS @ 3227' 1 3/4 DEG.
4.00	PT	003	DRILL F/3275' TO 3361'
0.00			

MUD PROPERTIES										DAILY COST				CUM COST				
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WU/THP	SOLIDS	SAND%	CEC	pH	PlmPl	Chl	Ca	Oil%OW	ES/EXL	TYPE	LGS/DS%
05:00	3,361	8.80	36		6/6	4/12	17.2	1.5			10.00	0.25	40	200	/	/	LOW SO	/

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	ADC	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	T	O	D	L	B	G	O	R
1	3	8.750	Smith	F2H	527	MJ3178	14/14/14/IIIIII	3,015.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR/FTG	24HR/ROP	CUM HRS	CUM DEPTH	CUM ROP
1	3	25 / 50	60 / 60	318	1,150	403	13.00	346	26.62	13.00	346.0	26.62

BHA / HOLE CONDITIONS					
BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	97 (klb)	93 (klb)	95 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 636.06	MIN ID: 2.125	BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 21-Drill Collar					

HYDRAULICS / PUMPS											
FLOW RATE:	318.14	HSI:	1.245	IMPACT:	.00	JET VEL:	0.0	AV DC:	AV DP:	ECD	
#	PUMP	LINER (m)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	8.000	114	318.14	1,150	95.0	/		/	

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	INS CUM E/W	CUM DOG LEG	MD	INCL	AZIMUTH	TVD	VS	INS CUM E/W	CUM DOG LEG
3,227	1.750	0.000	3,226.29	63.77	63.77	0.00	0.00						



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 8 Date: 10/27/2001

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	NIELSONS	1	4.00
PATTERSON	11	144.00	PASON	2	24.00
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00

Comments

Rig # 435-687 2700 , Cell:915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 . WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 9 Date: 10/28/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS								
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)					MD/TVD: 3,810 (ft) / 3,810 (ft)	DOL/DFS: 11.00 / 7.00							
SPUD DATE: 10/22/2001						FOOTAGE: 449 (ft)	24 HR ROP: 19.52							
RIG: PATTERSON RIG # 155 155						DRILL HRS: 23.00	PROPOSED TD: 8,000 (ft)							
DRLG SUPRS:	NEXT CSG: 7.000 (in) @ 8,000 (ft)					AFE Days +/- Goal:								
Lee Vaughan 435-687 2700														
RIG PHONE:														
CELLPHONE:														
ENGR: Dave Wojahn 793 4918														
		CASING				COSTS ORIG DRILLING								
		CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	Comp Cash	Comp MOH	Conteng	TOTAL
		9.625	3,015	3,015			N	Est.	0	0	0	0	0	0
		13.375	423	423			N	Est+OE	0	0	0	0	0	0
								Cum	70,432	0	258,505	53,567	27,130	409,634
								Daily	9,600	0	5,549	0	715	15,864

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD & BIT TRIP

SAFETY SUMMARY					
MANHRS WORKED: 206.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 11 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
4.50	PT	003	DRILL F/3361' TO 3494'
0.50	PT	009	SERVICE RIG & SAFETY MEETING
14.00	PT	003	DRILL F/3494' TO 3775' RPM=65,WOB=45,SPP=1300 & ROP=25 FPH
0.50	PT	012	WLS @ 3727' 2 3/4 DEG
4.50	PT	003	DRILL F/3775' TO 3810' RPM=75,WOB=30,SPP=1300 & ROP=15 FPH. HIT 50% CHERT IN FORMATION

MUD PROPERTIES														DAILY COST		CUM COST		
TIME	DEPTH	WT	VIS	TEMP	PVMP	GELS	WUHTP	SOLIDS	SAND%	CEC	pH	PmVPI	Ch	Ca	Oil/Ow	ES/ExL	TYPE	LGS/DS%
05:00	3,810	8.90	39		9/9	6/12	9.2/	3.0	15.00		9.00	/0.10	60	250	/	/	LOW SO	/3.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADG	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	3	8.750	Smith	F2H	517	MJ3178	14/14/14/111111	3,015.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P/BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	3	25 / 45	50 / 75	401	1,300		23.00	449	19.52	36.00	795.0	22.08

BHA / HOLE CONDITIONS							
BHA #3	BIT # 1	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
		636.06	110 (klb)	95 (klb)	100 (klb)		
BHA LENGTH:		636.06	MIN ID: 2.125		BHA HRS SINCE LAST INSPECTION:		
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 21-Drill Collar							

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:	AV DP:	ECD	
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,300	95.0	/		/	

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	4.00	
PATTERSON	11	144.00	PASON	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00	

Comments
Rig # 435-687 2700 , Cell.915-642 0464

CONFIDENTIAL



TEXACO EXPLORATION & PRODUCTION, INC. MORNING REPORT

Page 1 of 2

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 10 Date: 10/29/2001

Table with sections: WELL INFO, ELEVATIONS, DEPTH/DAYS, CASING, COSTS ORIG DRILLING. Includes fields for RKB, MD/TVD, FOOTAGE, DRILL HRS, and various cost breakdowns.

CURRENT OP AT REP TIME: DRILLING PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY table with columns: MANHRS WORKED, SAFETY MTGS ATTENDED, DAYS SINCE LAST LTA RIG/OPER, REC: N, F/A: N, GOVT INSP?

OPERATION SUMMARY table with columns: HRS, P/NFT, CODE, DESCRIPTION. Lists drilling activities and times.

MUD PROPERTIES table with columns: TIME, DEPTH, WT, VIS, TEMP, PV/VP, GELS, W/LR/THP, SOLIDS/SAND%, DEC, pH, Fm/Rt, Ch, Ca, OI/WOV, ES/EX, TYPE, LGS/DSS.

BITS table with columns: RUN, BIT #, SIZE, MANUFACT, TYPE, IADC, SERIAL #, JETS OR TPA, DEPTH IN, DEPTH OUT, I, O, D, L, B, G, O, R.

BIT OPERATIONS table with columns: RUN, BIT #, WOB, RPM, GPM, PRESSURE, P BIT, HRS, 24HR FTG, 24HR ROP, CUM HRS, CUM DEPTH, CUM ROP.

BHA/HOLE CONDITIONS table with columns: BHA # 4, BIT # 1, BHA WT BELOW JARS, P/U WT, S/O WT, RT WT, TORQUE ON/OFF, HRS ON JARS.

HYDRAULICS/PUMPS table with columns: FLOW RATE, HSI, IMPACT, JET VEL, AV DC, AV DP, ECD, PUMP, LINER, STROKE, SPM, GPM, PRES, EFF %, SPM1/SPR1, PRES, SPM2/SPR2, PRES.

PERSONNEL DATA table with columns: COMPANY, #, MAN HRS, COMPANY, #, MAN HRS. Lists personnel from Texaco, Patterson, Callaway, Nielsons, Pason, and MI Mud Engineer.

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TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

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Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 10 Date: 10/29/2001

Comments

Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 11 Date: 10/30/2001

WELL INFO	ELEVATIONS	DEPTH/DAYS	
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918	RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)	MD/TVD: 4,191 (ft) / 4,191 (ft) FOOTAGE: 220 (ft) DRILL HRS: 23.00	DOL/DFS: 13.00 / 9.00 24 HR ROP: 9.57 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:
	CASING	COSTS ORIG DRILLING	
	CSG MD TVD TOL LO LNR	DH Cash	DH MOH CompCash CompMOH Conteng TOTAL
	9.625 3,015 3,015 N	Est. 1,158,000	0 0 0 0 1,158,000
	13.375 423 423 N	Est+OE 1,158,000	0 0 0 0 1,158,000
		Cum 92,420	0 262,987 53,567 28,177 437,151
		Daily 12,388	0 2,241 0 663 15,292

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY				
MANHRS WORKED: 206.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 13 /	REC: N F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:		
INCIDENT DESCRIPTION:				

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
6.00	PT	003	DRILL F/3971' TO 4052' ROP=13.5 FPH. WOB=35/45, RPM=65/70, SPP=1450 PSI
0.50	PT	012	WLS @ 4007' 3 1/4 DEG
3.50	PT	003	DRILL F/4052' TO 4084'
0.50	PT	009	SAFETY MEETING & RIG SERVICE
13.50	PT	003	DRILL F/4084' TO 4191' ROP=8 FPH, WOB=40/55, RPM=50/75, SPP=1550

MUD PROPERTIES															DAILY COST		CUM COST	
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pt	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	4,070	9.00	43		18/15	12/22	8.0/	4.0	0.50		9.00	/0.08	40	300	/	/	LOW SO	/34.0

BHA / HOLE CONDITIONS							
BHA #1	BIT #2	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	120 (klb)	115 (klb)	118 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 819.87		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	IMPACT:	.00	JET VEL:	AV DC:	AV DP:	ECD			
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,550	95.0	/		/	

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG/LEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG/LEG
4,007	3.250	0.000	4,005.52	98.05	98.05	0.00	0.18						

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	4.00	
PATTERSON	11	144.00	PASON	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00	

Comments

Rig # 435-687 2700 , Cell.915-642 0464

DAILY OPERATIONAL COMMENTS

AT VARIOUS INTERVALS WE HAD 20% SAND & 8% LIMESTONE



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 12 Date: 10/31/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS							
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)				MD/TVD: 4,376 (ft) / 4,376 (ft) FOOTAGE: 185 (ft) DRILL HRS: 18.50 DOL/DFS: 14.00 / 10.00 24 HR ROP: 10.00 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:							
		CASING				COSTS ORIG DRILLING							
		CSG	MD	TVD	TOL	UNR	Est.	DH Cash	DH MOH	Comp Cash	Comp MOH	Conteng	TOTAL
		9.625	3,015	3,015		N	1,158,000	0	0	0	0	0	1,158,000
		13.375	423	423		N	1,158,000	0	0	0	0	0	1,158,000
							Cum	114,047	0	271,692	53,567	30,411	469,716
							Daily	21,627	0	8,705	0	2,233	32,565

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY					
MANHRS WORKED: 206.00	SAFETY MTGS ATTENDED: 6	DAYS SINCE LAST LTA RIG/OPER: 14 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
10.50	PT	003	DRILL F/4191' TO 4266' ROP DROPPED TO 5 FPH
0.50	PT	005	SLUG & TOTCO
2.00	PT	007	POH SURVEY=6 1/2 DEG BIT GRADE=T-5,B-4 & IG TOTAL FOOTAGE,424' IN 45.5 HRS=9.3 FPH
2.50	PT	006	RIH WITH BIT# 5. (NO HOLE PROBLEMS)
0.50	PT	029	WASH TO BOTTOM. NO WEIGHT ON BIT
8.00	PT	003	DRILL F/4266' TO 4376' ROP=13.75 FPH, WOB=40/45K,RPM=45/50 & SPP=1450 PSI

MUD PROPERTIES													DAILY COST			CUM COST		
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	4,265	9.00	43		17/15	8/21	8.4/	4.0	0.50		10.80	/0.35	60	300	/	/	LOW SO	/34.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	4	8.750	Smith	F 15 H	517	LW9593	15/15/15/IIIIII	4,266.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P-BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	4	40 / 45	45 / 50	401	1,450		8.00	110	13.75	8.00	110.0	13.75

BHA / HOLE CONDITIONS							
BHA # 4	BIT # 2	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
			125	120	122		
BHA LENGTH: 819.87		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION: 12			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS												
FLOW RATE: 401.17		HSI: 0.000	IMPACT: .00	JET VEL: 0.0	AV DC:	AV DP:	ECD					
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,450	95.0	/		/		

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
4,220	6.500	0.000	4,217.72	116.15	116.15	0.00	0.00	1.53					

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	4.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00	

CONFIDENTIAL



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

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Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 12 Date: 10/31/2001

Comments

Rig # 435-687 2700 , Cell.915-642 0464

DAILY OPERATIONAL COMMENTS

P- RATE WAS 8/9' PER HR.& DROPPED TO 5' P/HR
CUTTINGS OVER SHAKER EXTREMELY FINE



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 13 Date: 11/1/2001

WELL INFO	ELEVATIONS	DEPTH/DAYS	
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918	RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)	MD/TVD: 4,669 (ft) / 4,669 (ft) FOOTAGE: 293 (ft) DRILL HRS: 21.50	DOL/DFS: 15.00 / 11.00 24 HR ROP: 13.63 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:
	CASING	COSTS ORIG DRILLING	
	CSG MD TVD TOL LO LNR	DH Cash	DH MOH
	9.625 3,015 3,015 N	1,158,000	0
	13.375 423 423 N	1,158,000	0
		Cum	274,282
		Daily	10,590
		CompCash	53,567
		CompMOH	30,929
		Conteng	483,414
		TOTAL	13,698

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL & POSSIBLE BIT TRIP

SAFETY SUMMARY

MANHRS WORKED: 210.00 SAFETY MTGS ATTENDED: 6 DAYS SINCE LAST LTA RIG/OPER: 15 / REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY

HRS	P/NPT	CODE	DESCRIPTION
3.50	PT	003	DRILL F/4376' TO 4427'
0.50	PT	009	SAFETY MEETING & RIG SERVICE
4.00	PT	003	DRILL F/4427' TO 4490'
0.50	PT	012	WLS MIS-RUN
2.50	PT	003	DRILL F/4490' TO 4520'
0.50	PT	012	WLS @ 4486' 2 DEG
5.50	PT	003	DRILL F/4520' TO 4583'
1.00	PT	008	10 STD. WIPER TRIP 15K DRAG COMING OUT & SLICK GOING IN
6.00	PT	003	DRILL F/4583' TO 4669' ROP-14.3 FPH, WOB-50K, RPM-55 & SPP-1450 PSI

MUD PROPERTIES

TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Ohl	Ca	Oil%/OW	ES/Exl	TYPE	LGS/DS%
05:00	4,518	8.90	43		13/10	8/23	9.8/	3.3	0.50		10.20	0.20	60	300	/	/	LOW SO	13.3

BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	4	8.750	Smith	F 15 H	517	LW9593	15/15/15/11111	4,266.0									

BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	4	45 / 50	50 / 55	401	1,350		21.50	293	13.63	29.50	403.0	13.66

BHA / HOLE CONDITIONS

BHA # 5	BIT # 4	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
			127	122	125		
BHA LENGTH: 819.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS

FLOW RATE:	401.17	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:		AV DP:		ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,350	95.0	/		/		

SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM EW	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM EW	CUM DOGLEG
4,476	2.000	0.000	4,472.95	135.12	135.12	0.00							

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	CALLAWAY	1	4.00
PATTERSON	11	144.00	NIELSONS	1	8.00

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TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

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Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 13 Date: 11/1/2001

PERSONNEL DATA				POB: 17	
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
PASON MUD LOGGERS	2	24.00	MI MUD ENGINEER	1	6.00

Comments

Rig # 435-687 2700 , Cell.915-642 0464

[Empty area for comments]



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 19 Date: 11/7/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS						
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)				MD/TVD: 6,230 (ft) / 6,230 (ft)		DOL/DFS: 21.00 / 17.00 24 HR ROP: 15.63 PROPOSED TD: 8,000 (ft) DRILL HRS: 13.50 AFE Days +/- Goal:				
CASING				COSTS ORIG DRILLING								
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3,015	3,015			N	1,158,000		0	0	0	0	1,158,000
13.375	423	423			N	1,158,000		0	0	0	0	1,158,000
						Cum	192,922	0	300,910	54,518	35,620	583,970
						Daily	10,590	0	2,522	0	511	13,623

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY					
MANHRS WORKED: 205.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 21 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
1.00	PT	005	CIRCULATE, SLUG & TOTCO
4.00	PT	007	POH, 20K DRAG OFF BOTTOM SURVEY 3 DEG
0.50	PT	010	CHANGE OUT BITS. BIT GRADE=T-6,B-5 & 1/16"UG
4.00	PT	006	RIH TO 5980' TRIP TIME DUE TO GREEN RIG CREW
1.00	PT	029	WASH & REAM TO 6019'. WOB=3/5K
13.50	PT	003	DRILL F/6019' TO 6230' ROP=15.6 FPH, WOB=50K, RPM=55 & SPP 1820 psi

MUD PROPERTIES														DAILY COST		CUM COST		
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	GEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/EXL	TYPE	LGS/DS%
05:00	6,050	9.00	41		13/11	8/17	7.8/	4.0	0.50		10.00	/0.15	100	450	/	/	LOW SO	/4.0

BITS																		
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA		DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	5	8.750	Smith	F-2H	517X	MJ 3500	14/14/14/IIIIII		5,139.0	6,019.0	5	5	BT	M	5	1	BT	TQ
1	6	8.750	Smith	F-2H	517X	MJ-3964	15/15/15/IIIIII		6,019.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P-BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	5	45 / 50	50 / 60	401	2,000				12.61	75.00	880.0	11.73
1	6	50 / 50	55 / 55	394	1,820		13.50	211	15.63	13.50	211.0	15.63

BHA #6 BIT #						BHA / HOLE CONDITIONS					
BHA WT BELOW JARS		P/U WT		S/O WT		RT WT		TORQUE ON/OFF		HRS ON JARS	
(klb)		170 (klb)		135 (klb)		150 (klb)		(ft-lbf) / (ft-lbf)			
BHA LENGTH: 820.27		MIN ID: 2.250				BHA HRS SINCE LAST INSPECTION:					
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar											

HYDRAULICS / PUMPS											
FLOW RATE:		HSI:	IMPACT:		JET VEL:	AV DC:		AV DP:		ECD	
394.19		0.000	.00		0.0						
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	113	394.19	1,820	95.0	/		/	

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG LEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOG LEG
6,019	3.000	0.000	696.12	34.96	34.96	0.00							

PERSONNEL DATA						POB: 17	
COMPANY		#	MAN HRS	COMPANY		#	MAN HRS
TEXACO		1	24.00	NIELSONS		1	3.00
PATTERSON		11	144.00	PASON MUD LOGGERS		2	24.00
CALLAWAY		1	4.00	MI MUD ENGINEER		1	6.00

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TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

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Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 19 Date: 11/7/2001

Comments

Rig # 435-687 2700 , Cell.915-642 0464

Empty comment box area.



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 20 Date: 11/8/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS							
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)				MD/TVD: 6,730 (ft) / 6,730 (ft)		DOL/DFS: 22.00 / 18.00 24 HR ROP: 21.28 PROPOSED TD: 8,000 (ft) DRILL HRS: 23.50 AFE Days +/- Goal:					
		CASING				COSTS ORIG DRILLING							
		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
		9.625	3,015	3,015			N	Est. 1,158,000	0	0	0	0	1,158,000
		13.375	423	423			N	Est+OE 1,158,000	0	0	0	0	1,158,000
								Cum 206,675	0	304,047	54,518	36,509	601,749
								Daily 13,754	0	3,137	0	889	17,780

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY					
MANHRS WORKED: 205.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 22 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
0.50	PT	026	RIG SERVICE & SAFETY MEETING
23.50	PT	003	DRILL F/6230' TO 6730' ROP=21.3 FPH, WOB=50K, RPM=60, SPP=1720 PSI

MUD PROPERTIES										DAILY COST			CUM COST					
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	GEC	pH	Pm/Pf	Chl	Ca	OI%/OW	ES/ExL	TYPE	LGS/DS%
05:00	6,415	9.00	40		10/8	6/15	7.4l	4.0	0.50		9.00	/0.10	320	650	/	/	LOW SO	14.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	ADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	P	O	D	L	B	G	O	R
1	6	8.750	Smith	F-2H	517X	MJ-3964	15/15/15/IIII	6,019.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	6	45 / 50	50 / 60	394	1,760		23.50	500	21.28	37.00	711.0	19.22

BHA / HOLE CONDITIONS							
BHA #6	BIT #6	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	180 (klb)	140 (klb)	158 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 820.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION: 236			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS											
FLOW RATE: 394.19		HSI: 0.000	IMPACT: .00	JET VEL: 0.0	AV DC:	AV DP:	ECD				
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	113	394.19	1,760	95.0	/		/	

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	3.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00	

Comments

Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt # 21 Date: 11/9/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS							
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: Lee Vaughan 435-687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)				MD/TVD: 6,880 (ft) / 6,880 (ft) FOOTAGE: 150 (ft) DRILL HRS: 12.00				DOL/DFS: 23.00 / 19.00 24 HR ROP: 12.50 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:			
CASING						COSTS ORIG DRILLING							
CSG	MD	TVD	TOL	LO	LNR	Est	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL	
9.625	3,015	3,015			N	1,158,000		0	0	0	0	1,158,000	
13.375	423	423			N	1,158,000		0	0	0	0	1,158,000	
						Cum	222,343	0	307,433	54,518	37,614	621,909	
						Daily	15,668	0	3,386	0	1,105	20,160	

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY			
MANHRS WORKED: 205.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 23 /	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
6.00	PT	003	DRILL F/6730' TO 6794' ROP DROPPED TO 7/8 FPH & INCREASE IN TORQUE
1.00	PT	005	CIRC,SLUG & TOTCO
4.00	PT	007	POH (NO DRAG OFF BOTTOM) BIT GRADE=T-8,B-8 & 1/4 UG. TOTCO MIS-RUN ON 7 DEG CHART
2.00	PT	006	RIH W/DRILL COLLARS TO SHOE
1.00	PT	025	SLIP & CUT DRLG LINE
2.00	PT	006	RIH TO 6741'
1.00	PT	029	WASH & REAM F/6741' TO BOTTOM
1.00	PT	003	DRILL F/6794' TO 6803'
1.00	PT	012	WLS @ 6758' 10 1/2 DEG ON 14 DEG CHART
5.00	PT	003	DRILL F/6803' TO 6880' ROP=15.4' WOB=35K,RPM=60 & 1700 SPP

MUD PROPERTIES										DAILY COST				CUM COST			
TIME	DEPTH	WT	VIS	TEMP	PV/XP	GELS	WL/HTHP	SOLIDS	SAND% CEC	pH	Pm/Pt	Chl	Ca	Oil%OW	ES/ExL	TYPE	LGS/DS%
05:00	6,415	9.10	39		11/5	6/13	7.4/	4.0	0.50	10.00	/0.20	100	700	/	/	LOW SO	4.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	6	8.750	Smith	F-2H	517X	MJ-3964	15/15/15/11/11/11	6,019.0	6,794.0	8	8	W	A	8	4	WT	PR
1	7	8.750	Smith	F-3H	517X	MJ-3022	16/16/16/11/11/11	6,794.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P.BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	6	45 / 50	50 / 60	394	1,760		6.00	74	12.33	43.00	785.0	18.26
1	7	5 / 40	45 / 60	401	1,700		6.50	86	13.23	6.50	86.0	13.23

BHA / HOLE CONDITIONS					
BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	190 (klb)	140 (klb)	160 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 820.27	MIN ID: 2.250	BHA HRS SINCE LAST INSPECTION: 288			

BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:		AV DP:	ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,700	95.0	/		/	

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
6,758	10.500	0.000	1,429.48	121.76	121.76	0.00	1.01						

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TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Page 2 of 2

Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 21 Date: 11/9/2001

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	NIELSONS	1	3.00
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00

POB: 17

Comments

Rig # 435-687 2700 , Cell.915-642 0464

Large empty rectangular area for comments.



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 22 Date: 11/10/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,910.00 (ft)	MD/TVD: 7,130 (ft) / 7,130 (ft)	DOL/DFS: 24.00 / 20.00		
SPUD DATE: 10/22/2001		FOOTAGE: 250 (ft)	24 HR ROP: 10.64		
RIG: PATTERSON RIG # 155 155	NEXT CSG: 7,000 (in) @ 8,000 (ft)	DRILL HRS: 23.50	PROPOSED TD: 8,000 (ft)	AFE Days +/- Goal:	
DRLG SUPRS: Lee Vaughan 435-687 2700					
RIG PHONE:					
CELLPHONE:					
ENGR: Dave Wojahn 793 4918					

CASING						COSTS ORIG DRILLING						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	Comp Cash	Comp MOH	Conteng	TOTAL
9.625	3,015	3,015			N	1,158,000	0	0	0	0	0	1,158,000
13.375	423	423			N	1,158,000	0	0	0	0	0	1,158,000
						Cum	232,933	0	310,312	54,518	38,161	635,925
						Daily	10,590	0	2,879	0	547	14,016

CURRENT OP AT REP TIME: DRILLING

PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY			
MANHRS WORKED: 205.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 24 /	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
0.50	PT	003	RIG SERVICE & SAFETY MEETING
23.50	PT	003	DRILL F/6880' TO 7130' ROP=10.6 FPH,WOB=45/50,RPM=50/55 & 1800 SPP. ROP HAS VARIED FROM 6' TO 18' PER HR

MUD PROPERTIES										DAILY COST				CUM COST				
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Ch	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	7,019	9.10	41		13/8	6/17	8.0/	4.0	0.50		10.80	0.70	80	700	/	/	LOW SO	4.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	7	8.750	Smith	F-3H	517X	MJ-3022	16/16/16/IIIIII	6,794.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	7	35 / 50	55 / 55	401	1,850	388	23.50	250	10.64	30.00	336.0	11.20

BHA / HOLE CONDITIONS					
BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	200 (klb)	140 (klb)	165 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 0.00	MIN ID: 0.000				BHA HRS SINCE LAST INSPECTION: 311

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	1.511	IMPACT:	412.84	JET VEL:	218.4	AV DC:	ECD		
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,800	95.0	/	/	/	/

PERSONNEL DATA					
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	NIELSONS	1	3.00
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00
CALLAWAY	1	4.00	MI MUD ENGINEER	1	6.00

Comments

Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 23 Date: 11/11/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS						
FIELD: HUNNINGTON		RKB: 5,910.00 (ft)				MD/TVD: 7,350 (ft) / 7,350 (ft)		DOL/DFS: 25.00 / 21.00				
SPUD DATE: 10/22/2001						24 HR ROP: 9.36						
RIG: PATTERSON RIG # 155 155		NEXT CSG: 7.000 (in) @ 8,000 (ft)				FOOTAGE: 220 (ft)		PROPOSED TD: 8,000 (ft)				
DRLG SUPRS:						DRILL HRS: 23.50		AFE Days +/- Goal:				
Lee Vaughan 435-687 2700												
RIG PHONE:												
CELLPHONE:												
ENGR: Dave Wojahn 793 4918												
		CASING				COSTS ORIG DRILLING						
	CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
	9.625	3,015	3,015			N	Est. 1,158,000	0	0	0	0	1,158,000
	13.375	423	423			N	Est+OE 1,158,000	0	0	0	0	1,158,000
							Cum 243,523	0	313,366	54,518	38,726	650,133
							Daily 10,590	0	3,054	0	564	14,208

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD & BIT TRIP

SAFETY SUMMARY					
MANHRS WORKED: 202.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 25 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
4.50	PT	003	DRILL F/7130' TO 7176'
0.50	PT	009	RIG SERVICE & SAFETY MEETING
19.00	PT	003	DRILL F/7176' TO 7350' ROP=9.2 FPH, WOB=50K, RPM=60 & 1850 SPP

MUD PROPERTIES													DAILY COST			CUM COST		
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Ch	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	7,246	9.00	43		15/12	8/18	7.2/	4.0	0.50		10.80	1.00	80	750	/	/	LOW SO	4.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TEA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	7	8.750	Smith	F-3H	517X	MJ-3022	16/16/16/IIIIII	6,794.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTC	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	7	50 / 55	55 / 60	401	1,850		23.50	220	9.36	53.50	556.0	10.39

BHA / HOLE CONDITIONS							
BHA #7	BIT #7	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	205 (klb)	145 (klb)	167 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 0.00	MIN ID: 0.000						BHA HRS SINCE LAST INSPECTION: 334
BHA DESCRIPTION:							

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:		AV DP:	ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	115	401.17	1,850	95.0	/		/	

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	2.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	4.00	

Comments
Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 24 Date: 11/12/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS			
FIELD: HUNNINGTON		RKB: 5,910.00 (ft)				MD/TVD: 7,394 (ft) / 7,394 (ft)		DOL/DFS: 26.00 / 22.00	
SPUD DATE: 10/22/2001						FOOTAGE: 44 (ft)		24 HR ROP: 6.77	
RIG: PATTERSON RIG # 155 155		NEXT CSG: 7.000 (in) @ 8,000 (ft)				DRILL HRS: 6.50		PROPOSED TD: 8,000 (ft)	
DRLG SUPRS:						AFE Days +/- Goal:			
Lee Vaughan 435-687 2700									
RIG PHONE:									
CELLPHONE:									
ENGR:									
Dave Wojahn 793 4918									

CASING						COSTS ORIG DRILLING					
CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3.015	3.015			N	Est. 1,158,000	0	0	0	0	1,158,000
13.375	423	423			N	Est+OE 1,158,000	0	0	0	0	1,158,000
						Cum 254,113	0	322,462	54,518	39,894	670,988
						Daily 10,590	0	9,096	0	1,169	20,855

CURRENT OP AT REP TIME: CIRCULATING LCM MUD
 PLANNED OPERATIONS: CONTINUE DRILLING

SAFETY SUMMARY				
MANHRS WORKED: 210.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 26 /	REC: N	F/A: N
GOVT INSP?	SAFETY COMMENTS:			

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
3.50	PT	002	DRILL F/7350' TO 7375' DROP IN ROP TO 6/7 FPH
0.50	PT	012	RIG SERVICE, SLUG & SURVEY
3.50	PT	007	POH, 30K DRAG FOR 20 STDS OUT. SURVEY=6 DEG. BIT GRADE= T-8, B-4 & 1/16 WG
3.00	PT	006	RIH W/BIT # 8 NO HOLE PROBLEMS
0.50	PT	029	WASH & REAM F/7293' TO 7375' 3K WOB
3.00	PT	003	DRILL F/7375' TO 7394' & LOST 100% RETURNS
1.00	PT	008	PULL 11 STDS
2.50	PT	005	MIX LCM PILL WHILE WORKING PIPE. PUMP DOWN BACK SIDE W/10 BBLS EVERY 20 MINUTES WHILE MIXING LCM PILL
1.00	PT	005	PUMP 90 BBL. 20 PPB LCM. PILL & REGAIN PARTIAL RETURNS.
3.50	PT	005	LOST 100% RETURNS . CONTINUE MIXING LCM
2.00	PT	005	REGAIN 90% RETURNS . CONTINUE CIRCULATING & BUILD VOLUME WITH 15 PPB USING FIBER, MAXI SEAL, & MICA. AT REPORT TIME WE HAVE 98% RETURNS

MUD PROPERTIES												DAILY COST			CUM COST			
TIME	DEPTH	WT	VIS	TEMP	PV/NP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Fm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	7,394	9.00	43		15/13	9/17	7.2'	4.0	0.50		10.50	0.90	120	900	/	/	LOW SO	4.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	7	8.750	Smith	F-3H	517X	MJ-3022	16/16/16/IIIIII	6,794.0	7,375.0	8	7	BT	A	8	1	BT	PR
1	8	8.750	Smith	MF-30T	517X	MK1111	16/16/16/IIIIII	7,375.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P.BIT	HRS	24HR.FTG	24HR.ROP	CUM.HRS	CUM.DEPH	CUM.ROP
1	7	50 / 55	55 / 60	401		384			7.14	57.00	581.0	10.19
1	8	3 / 45	40 / 50	394	1,800		3.00	19	6.33	3.00	19.0	6.33

BHA / HOLE CONDITIONS					
BHA #8	BIT #8	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)
		215 (klb)	150 (klb)	173 (klb)	
BHA LENGTH: 820.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION: 346	
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar					

HYDRAULICS / PUMPS											
FLOW RATE:		394.19	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:	AV DP:	ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	113	394.19	1,800	95.0	/	/	/	/

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TEXACO EXPLORATION & PRODUCTION, INC.

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MORNING REPORT

Well Name: SWD # 4

WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490

Rpt #: 24 Date: 11/12/2001

SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
7,340	6.000	0.000	2,005.30	205.25	205.25	0.00	0.77								

PERSONNEL DATA

POB: 17

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
TEXACO	1	24.00	NIELSONS	1	2.00
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00
CALLAWAY	1	4.00	MI MUD ENGINEER	1	12.00

Comments

Rig # 435-687 2700 , Cell.915-642 0464



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 25 Date: 11/13/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS					
FIELD: HUNNINGTON		RKB: 5,910.00 (ft)				MD/TVD: 7,620 (ft) / 7,620 (ft)		DOL/DFS: 27.00 / 23.00			
SPUD DATE: 10/22/2001		NEXT CSG: 7.000 (in) @ 8,000 (ft)				FOOTAGE: 226 (ft)		24 HR ROP: 10.27			
RIG: PATTERSON RIG # 155 155						DRILL HRS: 22.00		PROPOSED TD: 8,000 (ft)			
DRLG SUPRS:						AFE Days +/- Goal:					
FLOYD HURT 435 6872700											
RIG PHONE:											
CELLPHONE:											
ENGR: Dave Wojahn 793 4918											

CASING							COSTS ORIG DRILLING					
CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	Comp Cash	Comp MOH	Conteng	TOTAL
9.625	3,015	3,015			N	Est.	1,158,000	0	0	0	0	1,158,000
13.375	423	423			N	Est+OE	1,158,000	0	0	0	0	1,158,000
						Cum	277,574	0	327,420	54,518	41,936	701,448
						Daily	23,460	0	4,958	0	2,042	30,460

CURRENT OP AT REP TIME: DRILLING
PLANNED OPERATIONS: DRILL AHEAD

SAFETY SUMMARY			
MANHRS WORKED: 210.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 27 /	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
1.00	PT	006	STAGED PIPE TO BOTTOM
0.50	PT	005	CIRC WITH 100% RETURNS
5.00	PT	003	DRILL F/7394' TO 7456'
0.50	PT	009	RIG SERVICE & SAFETY MEETING
17.00	PT	003	DRILL F/7456' TO 7620' ROP=9.7 FPH,WOB=55,RPM=65 1730 SPP NO HOLE PROBLEMS

MUD PROPERTIES													DAILY COST			CUM COST		
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WU/HTP	SOLIDS	SAND%	CEC	pH	Pm/Pt	Chi	Ca	OI%/OW	ES/ExL	TYPE	LSG/DS%
05:00	7,518	9.00	40		12/8	6/12	7.2/	4.0	0.50		10.50	0.50	100	750	/	/	LOW SO	14.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	8	8.750	Smith	MF-30T	517X	MK1111	16/16/16/11111	7,375.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P.BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	8	45 / 55	50 / 65	349	1,730		23.00	236	10.26	26.00	481.0	18.50

BHA / HOLE CONDITIONS							
BHA #8	BIT #8	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	215 (klb)	145 (klb)	176 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 820.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS												
FLOW RATE:	348.84	HSI:	0.000	IMPACT:	.00	JET VEL:	0.0	AV DC:		AV DP:		ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
1	CONTINENTAL-EMSCO	6.000	10.000	100	348.84	1,730	95.0	/		/		

SURVEY DATA													
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
0	0.000	0.000	0.00	0.00	0.00	0.00							

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	2.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	12.00	

Comments

Rig # 435-687 2700 , Cell. 307 799 6465



TEXACO EXPLORATION & PRODUCTION, INC.

MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 26 Date: 11/14/2001

WELL INFO		ELEVATIONS					DEPTH/DAYS						
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: FLOYD HURT 435 687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)					MD/TVD: 7,860 (ft) / 7,860 (ft) FOOTAGE: 240 (ft) DRILL HRS: 23.50 DOL/DFS: 28.00 / 24.00 24 HR ROP: 10.21 PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:						
		CASING					COSTS ORIG DRILLING						
		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
		9.625	3,015	3,015			N	Est. 1,158,000	0	0	0	0	1,158,000
		13.375	423	423			N	Est+OE 1,158,000	0	0	0	0	1,158,000
								Cum 288,596	0	330,744	54,518	42,571	716,429
								Daily 11,022	0	3,324	0	635	14,981

CURRENT OP AT REP TIME: Drilling
PLANNED OPERATIONS: TD well, Circulate, Log

SAFETY SUMMARY					
MANHRS WORKED: 210.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 28 /	REC: N	F/A: N	GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:			
INCIDENT DESCRIPTION:					

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
7.00	PT	003	Drilling F/7620' to 7706'. ROP: 14.3,
0.50	PT	009	Rig Service
16.50	PT	003	Drilling F/7706' to 7860'. ROP: 9.4, WOB 53, RPM 65 SPP 1700

MUD PROPERTIES										DAILY COST			CUM COST					
TIME	DEPTH	WT	VIS	TEMP	PV/VE	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pl	Ch	Ca	OI%/OW	ES/ExL	TYPE	LGS/DS%
05:00	7,753	9.10	39		15/7	7/12	7.0/	5.0	0.50		10.20	/0.40	120	750	/	/	LOW SO	/4.0

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TPA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	8	8.750	Smith	MF-30T	517X	MK1111	16/16/16/IIIIII	7,375.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P.BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	8	48 / 53	50 / 65	345	1,700	284	23.50	240	10.21	49.50	721.0	14.57

BHA / HOLE CONDITIONS							
BHA # 8	BIT # 8	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
			220 (klb)	150 (klb)	180 (klb)		
BHA LENGTH: 820.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

HYDRAULICS / PUMPS											
FLOW RATE: 345.35		HSI: 0.951	IMPACT: 302.23	JET VEL: 187.9	AV DC:	AV DP:	ECD				
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	CONTINENTAL-EMSCO	6.000	10.000	99	345.35	1,700	95.0	/		/	

PERSONNEL DATA						POB: 17
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	NIELSONS	1	2.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	12.00	

Comments
Rig # 435-687 2700 , Cell. 307 799 6465
Shinarump Top @7575'.

DAILY OPERATIONAL COMMENTS
Left voice message on Dan Jarvis with Utah Oil and Gas Commission concerning permission to drill to 8005'.



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 28 Date: 11/16/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS			
FIELD: HUNNINGTON		RKB: 5,910.00 (ft)				MD/TVD: 8,005 (ft) / 8,005 (ft)		DOL/DFS: 30.00 / 26.00	
SPUD DATE: 10/22/2001		NEXT CSG: 7.000 (in) @ 8,000 (ft)				FOOTAGE: (ft)		24 HR ROP: 8,000 (ft)	
RIG: PATTERSON RIG # 155 155						DRILL HRS:		PROPOSED TD: 8,000 (ft)	
DRLG SUPRS:								AFE Days +/- Goal:	
FLOYD HURT 435 687 2700									
RIG PHONE:									
CELLPHONE:									
ENGR: Dave Wojahn 793 4918									

CASING						COSTS ORIG DRILLING						
CSG	MD	TVD	TOL	LO	LNR	Est	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3,015	3,015			N	1,158,000		0	0	0	0	1,158,000
13.375	423	423			N	1,158,000		0	0	0	0	1,158,000
						Cum	309,776	0	356,666	54,518	45,681	766,640
						Daily	10,590	0	22,173	0	2,476	35,240

CURRENT OP AT REP TIME: Circulating
 PLANNED OPERATIONS: Circulate, short trip, circulate, LD pipe, run casing

SAFETY SUMMARY			
MANHRS WORKED: 216.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 30 /	REC: F/A: GOVT INSP?
INCIDENT? YES	INCIDENT TYPE:	SAFETY COMMENTS:	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY			
HRS	R/NPT	CODE	DESCRIPTION
2.00	PT	008	Trip out of hole to casing shoe. Tight hole for first 500'.
2.00	PT	008	Trip in hole work tight spots.
1.50	PT	005	Circulate and condition mud.
5.00	PT	007	Trip out of hole. SLM. No correction. Hole still tight.
0.50	PT	009	Rig Service
6.00	PT	011	Hold Safety Mtg. Rig up Schlumberger. Pick up Patform Express Logging tools. Run in hole set down @7550'. Attempt to work tools downhole could not. Log well f77550' to 3015' bottom of 9 5/8" casing. Pull tools out of hole Rig down Schlumberger
5.00	PT	006	Pick up bit #8. Trip in hole.
0.50	PT	029	Wash and Ream 74' to bottom. 4' of fill.
1.00	PT	005	Circulate and condition mud.
0.50	PT	008	Trip out of hole 8 stands and trip back in hole.

MUD PROPERTIES										DAILY COST			CUM COST			
TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WU/HTHP	SOLIDS SAND% CEC	pH	Pm/Py	Chl	Ca	OI%/OW	ES/EXL	TYPE	LGS/DS%
17:00	8,005	9.20	43		15/10	8/16	7.0/ .	5.0 0.33	9.50	0.20	700	140	/	/	LOW SO	/

BITS												
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D L B G O R
1	8 RR	8.750	Smith	MF-30T	517X	MK1111		7,375.0	8,005.0	4		BT A 6 1 FC TD

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	8 RR	/	/							67.50	866.0	12.83

BHA / HOLE CONDITIONS							
BHA #8	BIT #8	BHA WT BELOW JARS (klb)	P/U WT (klb)	S/O WT (klb)	RT WT (klb)	TORQUE ON/OFF (ft-lbf) / (ft-lbf)	HRS ON JARS
		820.27	226 (klb)	150 (klb)	186 (klb)		
BHA LENGTH: 820.27		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 27-Drill Collar							

SURVEY DATA												
MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W CUM DOGLEG
8,005	0.000	0.000	0.00	0.00	0.00	0.00						

PERSONNEL DATA						POB: 21
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	MAN HRS
TEXACO	1	24.00	NIELSONS	1	2.00	
PATTERSON	11	144.00	PASON MUD LOGGERS	2	24.00	
CALLAWAY	1	4.00	MI MUD ENGINEER	1	12.00	

CONFIDENTIAL



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Page 2 of 2

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 28 Date: 11/16/2001

PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
Schlumberger	4	6.00			

POB: 21

Comments

Rig # 435-687 2700 , Cell. 307 799 6465

DAILY OPERATIONAL COMMENTS

Contacted Bob Lamarre, Geologist and decision was made to Log well from 7550' to casing shoe due to not being able to get logging tools to bottom.



TEXACO EXPLORATION & PRODUCTION, INC.

MORNING REPORT

Well Name: SWD # 4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 29 Date: 11/17/2001

WELL INFO	ELEVATIONS	DEPTH/DAYS										
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: FLOYD HURT 435 687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918	RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)	MD/TVD: 8,005 (ft) / 8,005 (ft) FOOTAGE: (ft) DRILL HRS:	DOL/DFS: 31.00 / 27.00 24 HR ROP: PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:									
	CASING			COSTS ORIG DRILLING								
	CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
	9.625	3,015	3,015			N	Est. 1,158,000	0	0	0	0	1,158,000
	13.375	423	423			N	Est+OE 1,158,000	0	0	0	0	1,158,000
							Cum 320,366	0	358,457	54,518	46,119	779,459
							Daily 10,590	0	1,791	0	438	12,819

CURRENT OP AT REP TIME: Picking up casing.
PLANNED OPERATIONS: Pick up casing, cement casing

SAFETY SUMMARY

MANHRS WORKED: 226.00 SAFETY MTGS ATTENDED: 28 DAYS SINCE LAST LTA RIG/OPER: 31 / REC: F/A: GOVT INSP?
INCIDENT? YES INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

OPERATION SUMMARY

HRS	P/NPT	CODE	DESCRIPTION
1.00	PT	006	Trip in hole.
2.50	PT	005	Circulate and condition mud.
0.50	PT	008	Short trip 6 stds
1.00	PT	030	Circulate and condition mud while rigging up R&S laydown machine.
0.50	PT	012	Pump dry pipe pill drop survey.
2.50	PT	007	Standback 6 stds. Lay down drill pipe.
0.50	PT	007	Rig Service. Trip in hole with 6 stds.
7.00	PT	007	Laydown drill pipe & Drill Collars.
2.00	PT	030	Pull wear bushing, Safety meeting with casing crew. Rig up equip to run casing.
6.50	PT	030	Pick up shoe, 1 jt, float collar, 7" 23#, N-80 LT&C casing. fill casing check floats, fill casing while running.

MUD PROPERTIES

TIME	DEPTH	WT	VIS	TEMP	PV/VP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	DAILY COST				CUM COST			
												Pm/Pf	Chl	Ca	OI%/OW	ES/EXL	TYPE	LGS/DS%	
17:00	8,005	9.30	43		15/8	7/16	7.6/	6.0	0.25		9.00	/0.10	650	200	/	/	LOW SO	/	

SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOG	LEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOG	LEG
8,005	0.000	0.000	0.00	0.00	0.00	0.00	0.00										

PERSONNEL DATA

COMPANY		#	MAN HRS	COMPANY		#	MAN HRS
TEXACO		1	24.00	PASON MUD LOGGERS		2	24.00
PATTERSON		11	144.00	MI MUD ENGINEER		1	12.00
CALLAWAY		1	4.00	R & S laydown & Casers		8	16.00
NIELSONS		1	2.00				

Comments

Rig # 435-687 2700 , Cell. 307 799 6465



TEXACO EXPLORATION & PRODUCTION, INC.
MORNING REPORT

Well Name: SWD #4 WBSE: DD/01.CT.A3GT.CAP.DR API: 43-015-30490 Rpt #: 30 Date: 11/18/2001

WELL INFO		ELEVATIONS					DEPTH/DAYS						
FIELD: HUNNINGTON SPUD DATE: 10/22/2001 RIG: PATTERSON RIG # 155 155 DRLG SUPRS: FLOYD HURT 435 687 2700 RIG PHONE: CELLPHONE: ENGR: Dave Wojahn 793 4918		RKB: 5,910.00 (ft) NEXT CSG: 7.000 (in) @ 8,000 (ft)					MD/TVD: 8,005 (ft) / 8,005 (ft) FOOTAGE: (ft) DRILL HRS:						
							DOL/DFS: 32.00 / 28.00 24 HR ROP: PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:						
		CASING					COSTS ORIG DRILLING						
		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
		7.000	8.001	8.001			N	Est.	1,158,000	0	0	0	1,158,000
		9.625	3.015	3.015			N	Est+OE	1,158,000	0	0	0	1,158,000
		13.375	423	423			N	Cum	434,420	0	360,396	54,518	906,251
								Daily	114,054	0	1,939	0	126,792

CURRENT OP AT REP TIME: Nipping down BOP
PLANNED OPERATIONS: Nipple down BOP, Install tubing head, Rig Down

SAFETY SUMMARY				
MANHRS WORKED: 230.00	SAFETY MTGS ATTENDED: 28	DAYS SINCE LAST LTA RIG/OPER: 32 /	REC: F/A:	GOVT INSP?
INCIDENT? YES	INCIDENT TYPE:	SAFETY COMMENTS:		
INCIDENT DESCRIPTION:				

OPERATION SUMMARY			
HRS	P/NPT	CODE	DESCRIPTION
3.50	PT	030	Finish running 7" casing. Shoe, 1 jt, Float collar, 33 jts, DV tool, 138 jts (all casing 7" 23# N-80)
3.00	PT	005	Establish circulation. Loosing mud, add LCM and begin to build volume back for cementing.
3.00	PT	021	Hold Safety Meeting with Schlumberger. Rig up cementing equip. Cement 7" in 2 stages. 1st stage 10 bbls CW-100, 10 bbls FWater, 445 sacks "G" cement w/additives (91.5 bbls) 15.8 ppg Displace with 70 bbls 2% KCL, 250 bbls Mud. Did not bump plug, had poor returns throughout job. Check floats floats held.
1.50	PT	005	Drop opening cone for DV tool. wait 30 min. Pressure up on tool to 730 psi, tool opened. Establish circulation. circulated out 30 bbls of cement.
2.50	PT	021	Pump 2nd cement stage. Pump 10 bbls CW-100, 625 sks highlift cement 11.0 ppg, 100 sks "G" with additives 15.8 ppg. drop plug, displace with 254 bbls 2% KCL water, bump plug pressure up to 2700 psi to close DV tool. bleed pressoff tool seems to be closed repressure to 2700 psi. bleed pressure off. Rig down Schlumberger. Slight flow back on casing. shut casing in in case tool leaking.
4.00	PT	025	Set slips through BOP 15,000# down. Unbolt BOP and ready for nipping down. Clean Mud pits.
6.50	PT	014	Pickup on stack. cut off casing. Nipple down BOP

MUD PROPERTIES										DAILY COST			CUM COST					
TIME	DEPTH	WT	VIS	TEMP	PVYP	GELS	WL/HTRP	SOLIDS	SAND%	CEC	pH	Pm/Pt	Chl	Ca	OI%/OW	ES/ExL	TYPE	LGS/DS%
17:00	8,005	9.00	45		16/12	9/18	8.6/	4.0	0.25		9.00	/0.10	650	160	/	/	LOW SO	/

PERSONNEL DATA						POB: 23
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
TEXACO	1	24.00	MI MUD ENGINEER	1	12.00	
PATTERSON	11	144.00	Weatherford	1	18.00	
CALLAWAY	1	4.00	Schlumberger (cmt crew)	6	10.00	
NIELSONS	1	2.00	Vetco Gray	1	16.00	

Comments
Rig # 435-687 2700 , Cell. 307 799 6465

DAILY OPERATIONAL COMMENTS
Waited on cement due to slight flow after rigging down Schlumberger. No pressure increase after being shut in. Flow could have been due to expansion and contraction.



Texaco Exploration
and Production Inc.
Allen R. Davis - Manager

3300 N. Butler, Suite 100
Farmington, NM 87401
505 325 4397

RECEIVED

DEC 24 2001

DIVISION OF
OIL, GAS AND MINING

November 30, 2001

Mr. Gil Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

UIC-284.1

Subject: Application for Injection Well - UIC Form 1
Texaco E&P Inc. Salt Water Disposal Well - SWD #4
SE/NE of Section 15, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hunt:

Enclosed for your review is an injection application for the above captioned well. The application includes information necessary to proceed with the public comment period. Please proceed with the public notice announcements. The technical information required for final approval of the injection permit will follow under separate cover when the SWD #4 well is completed and tested.

If you have any questions or require additional assistance, please contact me at (505) 325-4397 ext. 105.

Sincerely,

Ian M. Kephart
Production Engineer
Farmington Operating Unit

Enclosures

RECEIVED

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DEC 24 2001

APPLICATION FOR INJECTION WELL - UIC FORM 1

DIVISION OF
OIL, GAS AND MINING

OPERATOR TEXACO EXPLORATION AND PRODUCTION, INC.
ADDRESS 3300 NORTH BUTLER, SUITE 100
FARMINGTON, NEW MEXICO 87401

Well name and number: _____ SWD #4
Field or Unit name: Wildcat Lease No. _____ Fee _____
Well location: QQ SE/NE section 15 township 17S range 8E county Emery

Is this application for expansion of an existing project? Yes [] No [X]
Well the proposed well be used for: Enhanced Recovery? Yes [] No [X]
Disposal? Yes [X] No []
Storage? Yes [] No [X]
Is this application for a new well to be drilled? Yes [X] No []
If this application is for an existing well,
has a casing test been performed on the well? N/A Yes [] No []
Date of Test: _____
API Number: 43-015-30490

Proposed injection interval: from 6660' to 7895'
Proposed maximum injection: rate 15,000 BWPD pressure 1,750 psig

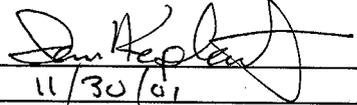
Proposed injection zone contains [] oil , [] gas , and/or [] fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R649-5-2 should accompany this form.

List of Attachments _____

I certify that this report is true and complete to the best of my knowledge.

Name Ian Kephart
Title Production Engineer
Phone No. (505) 325-4397

Signature 
Date 11/30/01

(State Use Only)
Application approved by _____ Title _____
Approval Date _____

Comments:

Texaco E&P Inc.
Salt Water Disposal Well Application
SWD#4

Regulatory Compliance Record

R649-5-2-

Pre Processing Inventory 1/8/02 OK
OK

- | | | | |
|------|---|--|-------------|
| 2 | Application Form 1 | Attached form | |
| 2.1 | Plat showing the location of well & 1/2 mile radius of exposure | Attached map | |
| 2.2 | Copies of logs (radioactive & electrical) | To be Submitted to DOGM under separate cover from Dowell / Schlumberger (APD stipulations) | <i>Need</i> |
| 2.3 | Copy of cement bond logs | To be Submitted to DOGM under separate cover from Dowell / Schlumberger (APD stipulations) | <i>Need</i> |
| 2.4 | Copies of existing logs | No logs found | <i>OK</i> |
| 2.5 | Description of casing | Attached table and diagram | <i>OK</i> |
| 2.6 | Type of fluid, source and estimated volumes / daily | To be submitted later | <i>Need</i> |
| 2.7 | Standard lab analysis of fluid Compatibility of the fluids | To be submitted later | <i>Need</i> |
| 2.8 | Proposed pressures | To be submitted later | <i>Need</i> |
| 2.9 | Evidence and data to support that the well will not initiate fractures to enter fresh water | To be submitted later | <i>Need</i> |
| 2.10 | Geological data | To be submitted later | <i>Need</i> |
| 2.11 | Review of mechanical conditions | List of wells attached | <i>OK</i> |
| 2.12 | Affidavit certifying copies have been sent to all owners, operators and surface owners within a 1/2 mile radius | Attached list of affected individuals and copies of Letters mailed | <i>OK</i> |
| | | Affidavit enclosed | <i>OK</i> |

no idea what TD is on either of the 2 wells within 1/2 mi. OK 2/19/02

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.1

Plat showing the location of the well, all abandoned or active wells within 1/2 mile radius of proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a 1/2 mile radius of the proposed injection well.

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.2

Copies of electrical or radioactive logs, including gamma ray logs,
for the proposed well run prior to the installation of casing and indicating
resistivity, spontaneous potential, caliper, and porosity.

Submitted under separate cover from Dowell / Schlumberger

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.3

Copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

Will be submitted under separate cover from Dowell / Schlumberger

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.4

Copies of logs already on file with DOGM

Research completed; no logs found

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.5

Description of the casing and proposed testing procedure

*Successful MTT conducted on
1/9/2001 by Mark Jones
CJ 3/21/02*

Current Casing Program

CASING PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	423'	408'	13 3/8"	48#	F-25	LT&C
Intermediate	12 1/4"	3015'	3000'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	8001'	7986'	7"	23#	N-80	LT&C

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>No. Sacks</u>	<u>Cement Type</u>	<u>Cmt Yield</u>	<u>Cmt Weight</u>
Surface			300'	Surface	520	G	1.15	15.8
Intermediate		Tail	300'	Surface	170	RFC 10-2	1.63	14.2
		Lead	3000'	Surface	345	G	3.63	11
Production	6500'	2 nd Stage	6500'	Surface	725	Hi-Lift	1.91	11
		1 st Stage	7895'	6500'	445	G	1.15	15.8

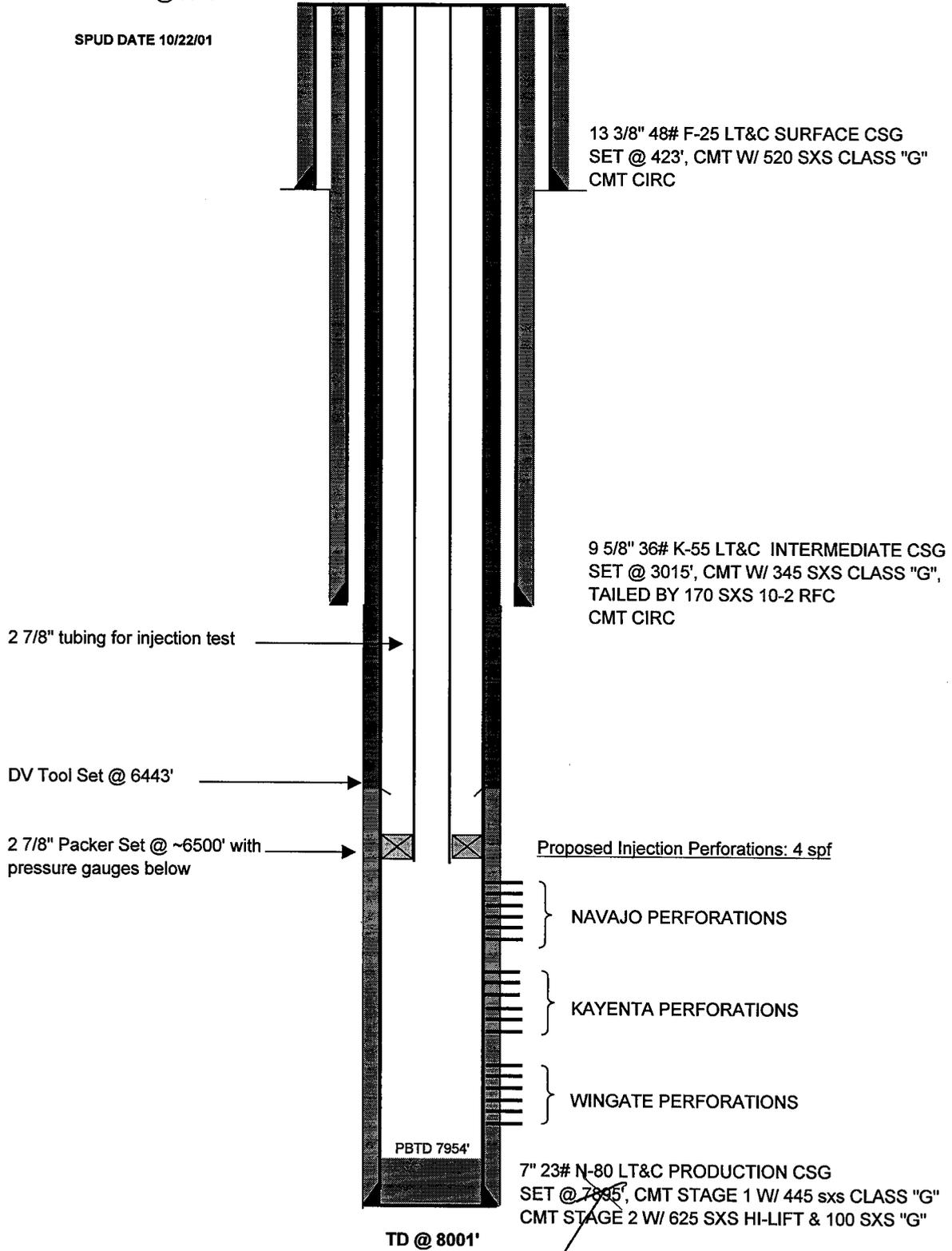
SWD #4

SEC 15, T 17S, R 8E
1557' FNL, 692' FEL
EMERY COUNTY, UT
API # 43-015-30490

GROUND LEVEL @ 5895'
KB LEVEL @ 5910'

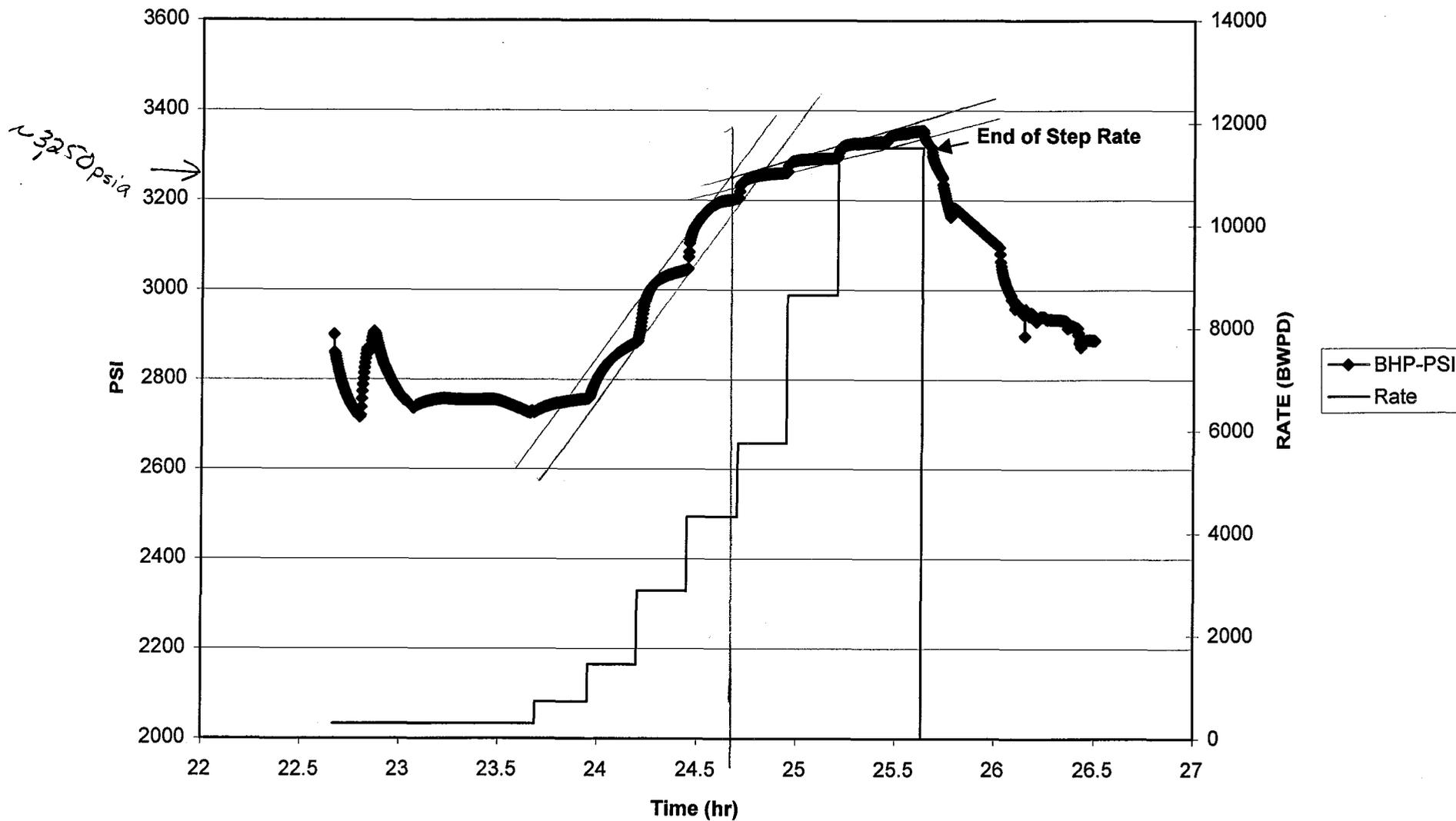
CURRENT

SPUD DATE 10/22/01



Typo, probably 7985'

SWD #4



Cement Top	Number Sacks	Cement Type	Cement Yield	Cement Weight
Surface				
Surface	520	Class G	1.15	15.8 ppg
Surface	345/170	RFC 10-2/G	3.63 ft ³ /1.63ft ³	11ppg/14.2ppg
6500'/Surface	445/725	G/Hi-Lift	1.15ft ³ /1.91ft ³	11ppg/15.8ppg

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.11

A review of the mechanical condition of each well within a 1/2 mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

There are currently only 2 other wells that exist within a 1/2 mile radius of the SWD #4.

These wells are or will be Ferron Producing wells. They are:

Lemmon 10-1

SE/SE Sec. 10, Twn 17S, Rng 8E

W. H. Leonard 15-127

NE/NE Sec. 15, Twn 17S, Rng 8E

**Note
These are the only ones
within 1/2 mile buffer of
SWD4 on our G.I.S.
C/K
11/8/02*

These wells are in good mechanical condition, with adequate cement tops 1000' above the Ferron producing interval, and surface casing set and cemented well below any shallow fresh water zones.

*What is the
T.D. of each of
these wells?*

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #3

Requirements R649 - 5 - 2 - 2.12

An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

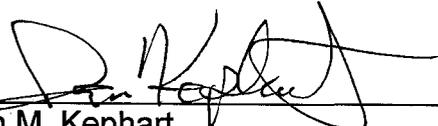
Affidavit is Enclosed

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397
FAX (505) 325-5398

SWD #4
1557' FNL AND 692' FEL
SE/NE of Section 15, Township 17 South, Range 8 East

I, Ian M. Kephart, Production Engineer for Texaco North American Production Inc., hereby certify the following:

A copy of the permit application for the above captioned salt water disposal well, has been provided to all surface owners and operators located within a 1/2 mile radius exposure of the location:



Ian M. Kephart
Production Engineer
Farmington Production Team
Texaco North American Production, Inc.

Subscribed and sworn before me this 3 rd day of December, 2001.

Witness my hand and official seal.

(SEAL)



Notary Public Residing at:
Farmington, NM

My Commission Expires: Sept 18, 2004



Texaco Exploration
and Production Inc.
Denver Region

3300 North Butler
Farmington, NM 87401
505 325-4397

November 29, 2001

Richard W. Burningham & Karen E. Burningham, Trustees
338 Queen Street #214
Brampton, Ontario, L6V 1C5
Canada

Subject: Application for Injection Well - UIC Form 1
Texaco E&P Inc. Salt Water Disposal Well - SWD #4
SE/NE Section 15, Township 17S, Range 8 East
R649-5-2-2.12

As required by State of Utah Oil and Gas Conservation regulations, R649-5-2.2.12, a copy of the permit application, for the proposed captioned salt water disposal well, must be provided to all operators, owners, and surface owners located within a one-half mile radius of exposure.

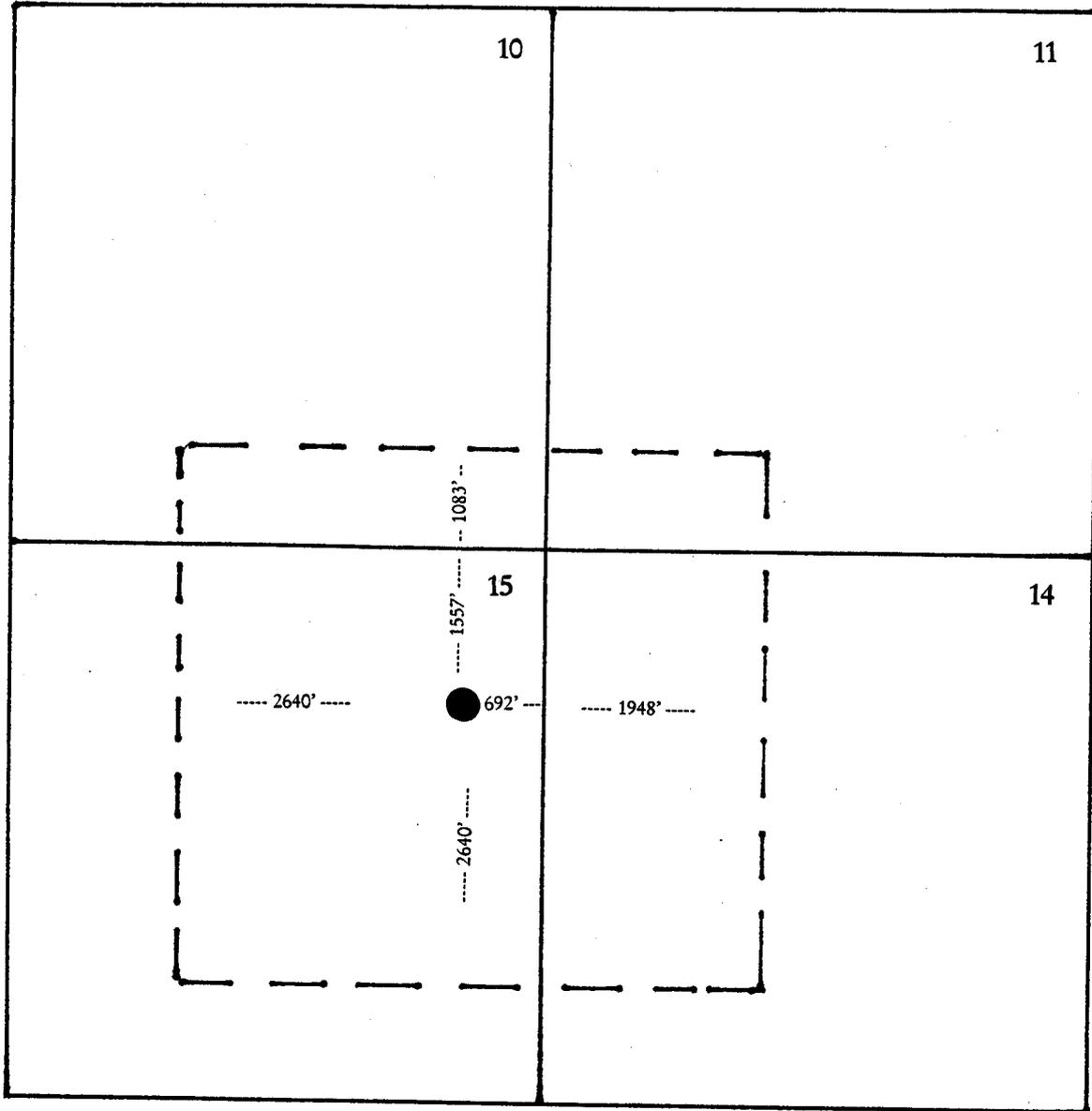
If you have any questions in regards to this notice, please call me at (505) 325-4397 ext-105, or contact Mr. Gil Hunt of the Division of Oil, Gas, and Mining in Salt Lake City, Utah at (801) 538-5297.

Sincerely,

Ian M. Kephart
Production Engineer
Farmington Operating Unit

Enclosure

SWD #4
1557' FNL & 692' FEL
Section 15, T17S, R8E, SLB&M
Emery County, Utah



SURFACE, MINERAL & OPERATOR OFFSET OWNERSHIP

SWD #4

1557' FNL & 692' FEL

**SECTION 15, T17S, R8E, SLB&M
EMERY COUNTY, UTAH**

SECTION 10

Richard W. Burningham & Karen E. Burningham, Trustees
338 Queen Street #214
Brampton, Ontario, L6V 1C5
Canada

Donna Lemmon, Personal Representative
of the Estate of Lee Lemmon
P.O. Box 1183
Huntington, Utah 84528

Alfred O. Brehmer, Attorney-in-Fact for
Charlotte J. Snyder
730 17th Street, Suite 712
Denver, Colorado 80202-3516

Karl Wallace & Billy Jackson,
Co-Personal Representatives
of the Estate of Lottie W. Stringham
1031 East 5625 South
Ogden, Utah 84405

Verlie A. Stringham
191 North 200 West
Vernal, Utah 84078

Paul M. Searle & Catherine S. Shriner, Trustees
of the Dorothy Stringham Searle Memorial Trust
429 Willow Avenue
Salt Lake City, Utah 84107

Paul G. Stringham
1775 West 2935 South
Vernal, Utah 84078

Stephen B. Stringham & Paul G. Stringham, Trustees
269 West 300 South
Vernal, Utah 84078

Loma Stringham, Trustee
269 West 300 South
Vernal, Utah 84078

Stephen B. Stringham, Trustee
269 West 300 South
Vernal, Utah 84078

Jesse Lewis Cheney
2382 St.Mary's Drive
Salt Lake City, Utah 84108

Diana C. Peterson
1078 Oak Hills Way
Salt Lake City, Utah 84108

Dr. Jess C. Cheney
338 E. Shamrock Drive
Murray, Utah 84108

Texaco Exploration and Production Inc.
P.O. Box 2100
Denver, Colorado 80201

Kidd Family Partnership Limited
3838 Oak Lawn Avenue, Suite 725
Dallas, Texas 75219

The First National Company of Marshall
225 Baronne Street, 10th Floor
New Orleans, Louisiana 70112

SECTION 11

State of Utah
School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818
(ML-48214 & ML-48192)

Texaco Exploration and Production Inc.
P.O. Box 2100
Denver, Colorado 80201

Kidd Family Partnership Limited
3838 Oak Lawn Avenue, Suite 725
Dallas, Texas 75219

The First National Company of Marshall
225 Baronne Street, 10th Floor
New Orleans, Louisiana 70112

SECTION 14

State of Utah
School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818
(ML-48202)

State of Utah
Division of Forestry, Fire and State Land
1594 W. North Temple, Suite 3520
Salt Lake City, Utah 84116-5703
(SLA-717)

PacifiCorp
2300 One Utah Center
201 S. Main Street
Salt Lake City, Utah 84140

Eva W. Conover
Eva W. Conover & Sons
Eva W. Conover & Daughters
P.O. Box 258
Ferron, Utah 84523

Bryce Reed Brasher & Joyce E. Brasher
P.O. Box 143
Huntington, Utah 84528

Dean Grant Collard & Cristy F. Collard
P.O. Box 115
Huntington, Utah 84528

Questar Energy Company
1331 17th Street, Suite 300
Denver, Colorado 80202

Richard D. Malone & Hilda Sue Malone
620 Stephens Street
Neosho, Missouri 64850

Floyd McKee & Reva McKee
1123 North 750 West
Price, Utah 84501

James R. Lowe
P.O. Box 1012
Huntington, Utah 84528

Rodger V. Ewell & Carol B. Ewell
P.O. Box 1019
Huntington, Utah 84528

Leo Bruce Collard & Marge Collard
169 East 900 North
Layton, Utah 84041

Elma O. Collard
P.O. Box 312
Huntington, Utah 84528

Ara Ottosen
c/o Elma O. Collard
P.O. Box 312
Huntington, Utah 84528

Texaco Exploration and Production Inc.
P.O. Box 2100
Denver, Colorado 80201

Kidd Family Partnership Limited
3838 Oak Lawn Avenue, Suite 725
Dallas, Texas 75219

The First National Company of Marshall
225 Baronne Street, 10th Floor
New Orleans, Louisiana 70112

SECTION 15

Donna Lemmon, Personal Representative
of the Estate of Lee Lemmon
P.O. Box 1183
Huntington, Utah 84528

Richard L. Jensen & Hazel R. Jensen
P.O. Box 1335
Huntington, Utah 84528

John Nielson, Ltd.
P.O. Box 620
Huntington, Utah 84528

W. Hugh Leonard & Jane Leonard
625 East 1130 North
Orem, Utah 84097

Anita Ruth Keller
603 San Phillippe
Boise, Idaho 83712

Camille Ridenour
1432 Independence
Boise, Idaho 83705

Victoria Ann Burnett
15 Bow Way
Portola Valley, California 94028-7301

Kathy Leonard
P.O. Box 381
Tangent, Oregon 97389

Parker Vincent Leonard
17242 South Carus
Beaver Creek, Oregon 97004

Scott Leonard
P.O. Box 381
Tangent, Oregon 97389

Foster Leonard
4937 Saddlehorn Ct.
Salem, Oregon 97301

Sandra Leonard Packwood
P.O. Box 345
Huntington, Utah 84528

Stephen C. Leonard
43 Millpond
Stansbury, Utah 84074

Bernice Howa
212 Larkspur Drive
Twin Falls, Idaho 83301

Carol Abshire
5194 Kingswood Drive
Salt Lake City, Utah 84118

Karl I. Truman
P.O. Box 249
Minersville, Utah 84752

Cloe T. Anderson & Keith Anderson
4515 West 1440 North
Garland, Utah 84312

American West Group, Inc.
727 Kensington St.
Farmington, Utah 84025

State of Utah
School & Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818
(ML-48218 & ML-48221)

Bud Lee Truman
830 North 4th East
Price, Utah 84501

Woodrow Truman
409 South 940 West
Cedar City, Utah 84720

Sherald M. Truman & Beverly Truman
320 Rice St.
Blackfoot, Idaho 83221

Alfred O. Brehmer, Attorney-in-Fact for
Charlotte J. Snyder
730 17th Street, Suite 712
Denver, Colorado 80202-3516

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Salt Lake City, Utah 84108

Dr. Jess C. Cheney
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Murray, Utah 84108

Texaco Exploration and Production Inc.
P.O. Box 2100
Denver, Colorado 80201

Kidd Family Partnership Limited
3838 Oak Lawn Avenue, Suite 725
Dallas, Texas 75219

The First National Company of Marshall
225 Baronne Street, 10th Floor
New Orleans, Louisiana 70112

Petrogulf Corporation
518 17th Street, Suite 1455
Denver, Colorado 80202

INJECTION WELL - PRESSURE TEST

Well Name: SWD #4 API Number: 43-015-30490
 Qtr/Qtr: SENE Section: 15 Township: 17 S Range: 8 E
 Company Name: Texaco Exploration & Prod.
 Lease: State WV Fee X Federal _____ Indian _____
 Inspector: Mark Jones Date: Jan 9, 2002

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0 <u>2:15 pm</u>	<u>1040 #</u>	<u>1040 #</u>
5 <u>2:20 pm</u>	_____	_____
10	_____	_____
15 <u>2:30 pm</u>	<u>1050 #</u>	_____
20	_____	_____
25	_____	_____
30 <u>2:45 pm</u>	<u>1060 #</u>	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi
 Casing/Tubing Annulus Pressure: N/A psi

COMMENTS: _____

Operator Representative

Lockset packer @ 6511 ✓
 on/off tool @ 6507 ✓
 pup joint @ 6515 ✓



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 9, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 284

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

A handwritten signature in cursive script that reads "Earlene Russell".

Earlene Russell
Executive Secretary

encl.

TRANSACTION REPORT

P. 01

JAN-09-2002 WED 02:37 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-09	02:36 PM	14353815431	49"	2	SEND	OK	380	

TOTAL : 49S PAGES: 2



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
 801-538-7223 (TDD)

January 9, 2002

SENT VIA FAX (435) 381-5431 and Regular Mail

Emery County Progress
 PO Box 589
 Castle Dale, UT 84513

RE: Notice of Agency Action - Cause No. UIC 284

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 9, 2002

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PO Box 589
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Sincerely,

A handwritten signature in cursive script that reads "Earlene Russell".

Earlene Russell
Executive Secretary

encl.

Brad
Chris

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

---ooOoo---

IN THE MATTER OF THE
APPLICATION OF TEXACO
EXPLORATION AND PRODUCTION,
INCORPORATED FOR
ADMINISTRATIVE APPROVAL OF THE
SWD #4 WELL LOCATED IN SECTION
15, TOWNSHIP 17 SOUTH, RANGE 8
EAST, EMERY COUNTY, UTAH, AS A
CLASS II INJECTION WELL

:
:
:
:

NOTICE OF AGENCY
ACTION

CAUSE NO. UIC 284

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED
MATTER.

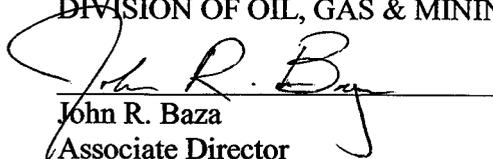
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Texaco Exploration and Production, Incorporated for administrative approval of the SWD #4 well, located in Section 15, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the Navajo Sandstone and Wingate Sandstone, Kayenta Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Texaco Exploration and Production, Incorporated.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 200~~7~~².

STATE OF UTAH
DIVISION OF OIL, GAS & MINING


John R. Baza
Associate Director

Texaco Exploration and Production, Incorporated
SWD #4
Cause No. UIC 284

Publication Notices were sent to the following:

Texaco Exploration and Production, Inc
3300 North Butler Street, Suite 100
Farmington, NM 87401

Via Mail and Facsimile (435) 381-5431
Emery County Progress
PO Box 589
Castle Dale, UT 84513

via E-Mail and Facsimile (801) 237-2776
Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145

Moab District Office
Bureau of Land Management
82 East Dogwood
Moab, UT 84532

Emery County Planning
PO Box 1298
Castle Dale, UT 84513-1298

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466



Earlene Russell
Executive Secretary
January 9, 2002

Earlene Russell - Re: UIC Cause 284

From: "NAC LEGAL" <naclegal@nacorp.com>
To: "Earlene Russell" <erussell.nrogm@state.ut.us>
Date: 01/09/2002 3:13 PM
Subject: Re: UIC Cause 284

Ad is set for Sunday, Jan. 13.
Thank you.

----- Original Message -----

From: Earlene Russell
To: naclegal@nacorp.com
Sent: Wednesday, January 09, 2002 2:43 PM
Subject: UIC Cause 284

Please notify me with the publishing date.

Thanks.

ER

TRANSACTION REPORT

P. 01

JAN-09-2002 WED 02:36 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-09	02:35 PM	2372776	43"	2	SEND	OK	379	
TOTAL :						43S PAGES:	2	



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
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Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 9, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 284

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



Texaco Exploration
and Production Inc.
Allen R. Davis - Manager

3300 N. Butler, Suite 100
Farmington, NM 87401
505 325 4397

RECEIVED

JAN 23 2002

**DIVISION OF
OIL, GAS AND MINING**

January 21, 2002

Mr. Gil Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Subject: Application for Injection Well - UIC Form 1
Texaco E&P Inc. Salt Water Disposal Well - SWD #4
SE/NE of Section 15, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hunt:

Enclosed for your review is an injection application for the above captioned well. This packet is in addition to the previous information sent on November 30, 2001, and completes the final submittal of our application for a UIC permit.

If you have any questions or require additional assistance, please contact me at (505) 325-4397 ext. 105. You can also reach me at my new Houston office at (281) 561-4894. Thank you.

Sincerely,

Ian M. Kephart
Production Engineer
Price/Ferron CoalBed Methane Team

Enclosures

Texaco E&P Inc.
Salt Water Disposal Well Application
SWD#4

Regulatory Compliance Record

R649-5-2-

2	Application Form 1	Previously Submitted
2.1	Plat showing the location of well & 1/2 mile radius of exposure	Previously Submitted
2.2	Copies of logs (radioactive & electrical)	To be Submitted to DOGM under separate cover from Dowell / Schlumberger (APD stipulations)
2.3	Copy of cement bond logs	To be Submitted to DOGM under separate cover from Dowell / Schlumberger (APD stipulations)
2.4	Copies of existing logs	No logs found
2.5	Description of casing	Attached diagram
2.6	Type of fluid, source and estimated volumes / daily	See Attached
2.7	Standard lab analysis of fluid Compatibility of the fluids	See Attached
2.8	Proposed pressures	See Attached
2.9	Evidence and data to support that the well will not initiate fractures to enter fresh water	See Attached
2.10	Geological data	See Attached
2.11	Review of mechanical conditions	Previously Submitted
2.12	Affidavit certifying copies have been sent to all owners, operators and surface owners within a 1/2 mile radius	Previously Submitted Previously Submitted

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.2

Copies of electrical or radioactive logs, including gamma ray logs,
for the proposed well run prior to the installation of casing and indicating
resistivity, spontaneous potential, caliper, and porosity.

Submitted under separate cover from Dowell / Schlumberger

*Whereauthy?
Ask Carol Daniels*

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.3

Copy of a cement bond or comparable log run for the proposed
injection well after casing was set and cemented.

Will be submitted under separate cover from Dowell / Schlumberger

*When ready?
ask Carol Daniels*

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.4

Copies of logs already on file with DOGM

Research completed; no logs found

**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.5

Description of the casing and proposed testing procedure

*No proposed testing procedure!
Q 2/20/07*

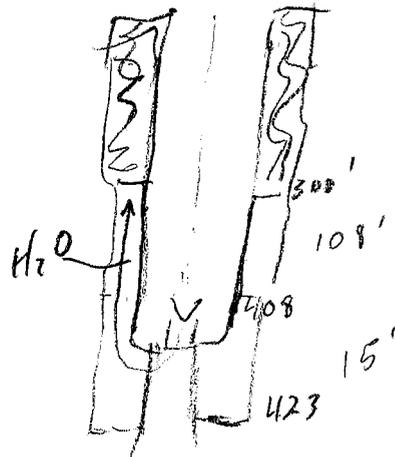
Current Casing Program

CASING PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	423'	408'	13 3/8"	48#	F-25	LT&C
Intermediate	12 1/4"	3015'	3000'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	8001'	7986'	7"	23#	N-80	LT&C

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>No. Sacks</u>	<u>Cement Type</u>	<u>Cmt Yield</u>	<u>Cmt Weight</u>
Surface			300'	Surface	520	G	1.15	15.8
Intermediate		Tail	300'	Surface	170	RFC 10-2	1.63	14.2
		Lead	3000'	Surface	345	G	3.63	11
Production	6500'	2 nd Stage	6500'	Surface	725	Hi-Lift	1.91	11
		1 st Stage	7895'	6500'	445	G	1.15	15.8



RECEIVED

APPLICATION FOR INJECTION WELL - UIC FORM 1

JAN 23 2002

OPERATOR TEXACO EXPLORATION AND PRODUCTION, INC.
ADDRESS 3300 NORTH BUTLER, SUITE 100
FARMINGTON, NEW MEXICO 87401

DIVISION OF
OIL, GAS AND MINING

Well name and number: _____ SWD #4 _____

Field or Unit name: Wildcat Lease No. _____ Fee _____

Well location: QQ SE/NE section 15 township 17S range 8E county Emery

Is this application for expansion of an existing project? Yes [] No [X]

Well the proposed well be used for: Enhanced Recovery? Yes [] No [X]
Disposal? Yes [X] No []
Storage? Yes [] No [X]

Is this application for a new well to be drilled? Yes [X] No []

If this application is for an existing well,
has a casing test been performed on the well? N/A Yes [] No []
Date of Test: _____
API Number: 43-015-30490

Proposed injection interval: from 6561' to 7186'

Proposed maximum injection: rate 10,000 BWPD pressure 1,750 psig

Proposed injection zone contains [] oil, [] gas, and/or [] fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R649-5-2 should accompany this form.

List of Attachments _____

This amends the previous UIC Form 1

I certify that this report is true and complete to the best of my knowledge.

Name Ian Kephart
Title Production Engineer
Phone No. (505) 325-4397

Signature *Ian Kephart*
Date 1/22/01

(State Use Only)
Application approved by _____ Title _____
Approval Date _____

Comments:

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.8

Proposed average and maximum injection pressures.

A maximum of 10,000 barrels of water per day at a maximum pressure of 1,750 psi.

The proposed injection pressure of 1750 psi is based on the current approved injection pressure of the SWD #1 and SWD #2. This injection pressure results in a .70 psi/ft frac gradient at SWD's #1 and #2. Since the proposed injection zone in SWD #4 is similar in depth, this injection pressure will also result in an equivalent frac gradient.

See Attached Step-Rate test

↳ This test info is not copies of the originals from the tester. These are just look like computer generated plots from raw data. What is the date of the test?
[Signature] 2/19/02

Texaco Exploration and Production Inc.

3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

Cross section. An isopach
map of the confining layer
should be created for

SWD #4

FAX Bob LaMarre
(303) 793-4642

Phone Julia Calhara-Baird
(281) 561-4903

Requirements R649 - 5 - 2 - 2.9

Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The Navajo in the SWD #4 is overlain by 1400 feet of Carmel Formation with some shale, minor salt and anhydrite and abundant sandstone with very low porosity which undoubtedly has very low permeability. The Carmel is too tight to transmit fluid through it and any fractures that might be initiated in the Navajo will not continue up through the Carmel to the overlying formations.

Please refer to the Stim-lab Study (1997) by Mike Conway in regards to the Carmel anhydrite acting as a barrier to fracture growth in the Navajo. This Study was conducted in the Orangeville area using the existing SWD #1 and SWD #2. Chevron Texaco feels that the anhydrite within the Carmel is continuous to the North and throughout the Huntington area as evidenced by cross-sectional logs between the SWD wells in Orangeville, the SWD #4 in Huntington, and the southern-most disposal well in the Drunkard's Wash Unit. (See Attached)

The anhydrite within the Carmel Formation is 38 feet thick in SWD #4. For comparison, the anhydrite in SWD #1 is 34 feet thick, in SWD #2 it is 33 feet thick, and in the SWD #5 it is 36 feet thick.

Structure contour maps on top of the Navajo showing the well spots which were used to construct the map. ^{structural} the elevation on the Navajo at that point and the line of section of the cross section as well as an east west

←
I request additional geologic supporting information a few weeks ago - ck again to see if it made it in
CJL 2/20/02

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.10

Appropriate geological data on the injection interval and confining beds, including

- (1) geological name
- (2) lithological description
- (3) thickness
- (4) depth
- (5) lateral extent
- (6) information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

Geological Description

(1) Geological names and data of injection interval and confining beds:

Carmel Formation:

Sandstone, limestone, anhydrite and shale

Depth: 5073 feet

Thickness: 1476 feet

Navajo Formation:

Sandstone and shale

Depth: 6549 feet

Thickness: 409 feet

Kayenta Formation:

Sandstone and shale

Depth: 6958 feet

Thickness: 130 feet

Lateral extent for all 3 formations is at least 20 miles in all directions

- (2) The following pages are copies of a study done by Montgomery Watson in December 1995 describing the general geology of the Navajo in the vicinity of the SWD #4 injection location. It describes the structure of the Navajo and the ground water movement in the area.

Also refer to the Mavor Study that models injection into the Navajo Formation. This analysis was submitted from Texaco to UDOGM in July 2000.



December 14, 1995

Texaco Exploration and Production
P.O. Box 2100, Room 532
Denver, Colorado 80201

FACT	✓	✓	✓
EH	✓	✓	✓
LNS	✓	✓	✓
JAN 8 1996			
DRS		FILE	✓
TLD		Return To	

ATTN: Mr. R.A. Lamarre

Subject: Hydrogeologic Assessment in the Vicinity of the Proposed
Texaco Ferron Coalbed Methane Water-Disposal Well No. 1

Dear Mr. Lamarre:

This letter-report is a summary of findings of an evaluation of general groundwater quality and hydrogeologic conditions in the vicinity of the proposed Texaco Ferron Coalbed Methane project in Emery County, Utah.

Project Background and Scope

It is our understanding that Texaco proposes to drill water-disposal well SWD #1 in Section 24, Township 18 South, Range 7 East, in Emery County, Utah. It is anticipated that the well will be drilled to a depth of approximately 7,300 feet, and be completed in the Navajo Sandstone. The proposed well will be used to dispose of water removed from nearby proposed coalbed methane production wells completed in the Ferron Sandstone.

The purpose of this evaluation is to provide Texaco with an independent evaluation of hydrogeologic conditions in the area of the proposed well, specifically those in the Navajo Sandstone. The scope of our services included the collection and analysis of available information for permitted water-supply and oil and gas wells within a minimum five-mile radius of the proposed disposal well site, and review and interpretation of available geologic maps and reports for the area. Data sources included:

- Utah Department of Natural Resources Division of Water Rights database, files, and reports
- Utah Division of Oil, Gas and Mining (UDOGM) files
- Utah Geological Survey reports and maps
- U.S. Geological Survey (USGS) database, reports, and maps

Geology of the Navajo Sandstone

The Lower Jurassic Navajo Sandstone is a light-brown to light-gray, thick-bedded to massive, cross-bedded quartzose sandstone. The Navajo is generally fine-grained, clean and friable. The formation contains a few thin lenticular, light-gray limestone beds in the upper part (Witkind, 1995). Navajo exposures range from steep cliffs to rounded knolls and nearly flat terrain. The Navajo Sandstone ranges in thickness from 400 to 1,000 feet along the west flank of the San Rafael Swell, and is 450 to 500 feet thick in the vicinity of the proposed disposal well (Hood and Patterson, 1984, Plate 6; attached Figure 1). On the portion of the San Rafael Swell east of Castle Dale, the Navajo Sandstone strikes generally northeast and dips from 3 to 7 degrees west (Witkind, 1988).

Groundwater Occurrence

Groundwater in the northern San Rafael Swell area occurs under confined, unconfined, and perched conditions. Most water in the unconsolidated surficial deposits is unconfined and saline, due to the solution of evaporite minerals. Perched conditions occur in partially or fully-saturated strata underlain by less-permeable, unsaturated rocks. Water in consolidated strata such as the Navajo Sandstone is unconfined in and near outcrops around the perimeter of the Swell where recharge to the aquifer occurs (see attached Figure 2). Downgradient and downdip from the recharge areas, the water level in the confined aquifer intersects the contact with an overlying confining layer, and groundwater is under confined conditions. In the San Rafael Swell, the Carmel Formation serves as the confining layer above the Navajo Sandstone.

Groundwater Movement

According to Hood and Patterson (1984, Plate 5) the piezometric surface of groundwater in the Navajo Sandstone is approximately 5,350 feet above mean sea level in the vicinity of SWD #1 (about 640 feet below ground level). Groundwater in the Navajo Sandstone is recharged by infiltration into exposures of the formation around the flanks of the San Rafael Swell. Recharge along the west flank flows downdip (westerly) toward Castle Valley (Figure 2). Approximately 20 miles south of Castle Dale, the west-flank groundwater flow in the Navajo splits into north and south components (Hood and Patterson, 1984, Plate 5; Weiss, 1987, Figure 7). The direction of groundwater movement in the Navajo north of the groundwater divide (in the area of Castle Dale) is north-northeast; Navajo groundwater flow continues clockwise around the north end of the San Rafael Swell, and generally southwest along the east flank of the Swell, until it intercepts and discharges to the Green River.

Based on analysis of shallow (less than 5 feet in depth) bedrock cores and outcrop samples, the porosity of the Navajo Sandstone in the northern San Rafael Swell area ranges

from 3.6 to 26.8 percent (averaging 17.7 percent), and hydraulic conductivities range from 0.0037 to 5.1 feet per day (Hood and Patterson, 1984). As calculated from Hood and Patterson's piezometric contour map (1984, Plate 5; attached Figure 2), the hydraulic gradient of groundwater in the Navajo near Castle Dale is northerly, at 0.030 feet per foot.

The horizontal rate of groundwater flow (or average linear velocity) can be calculated using a modified form of the Darcy Equation (Freeze and Cherry, 1979):

$$v = (K/n) (dh/dl)$$

where:

- v = average linear velocity (feet per day)
- K = hydraulic conductivity (feet per day)
- n = porosity (fraction)
- dh/dl = hydraulic gradient (feet/foot)

Using the published range of values for K and n and the calculated dh/dl discussed above, the calculated average linear velocity of groundwater in the Navajo Sandstone in the northern San Rafael area may range from 0.1527 feet per year (low conductivity, high porosity) to 1,567 feet per year (high conductivity, low porosity). It should be noted that these velocities are not based on site-specific data, but are calculated using hydraulic characteristics of near-surface, weathered samples. It is probable that the velocity of groundwater flow in the formation as a whole, and particularly in the unweathered formation at depth, is more in line with the lower velocity.

Near Caineville (approximately 60 miles due south of Castle Dale), cores of Navajo Sandstone from 1,000 to 2,000 feet below ground surface had an average horizontal hydraulic conductivity (K) of 0.5 feet per day (Hood and Danielson, 1979, pg. 36). Assuming that the K value of these cores is more representative of the hydraulic conductivity of the Navajo at depth in the Castle Dale area, and assuming the 17.7 percent average porosity and 0.0303 hydraulic gradient of Hood and Patterson (1984), an average linear velocity of 31.2 feet per year is derived.

Groundwater Use

Deep-source groundwater use in Emery County is apparently very limited. A review of recorded water rights for the 120 sections within an approximate 5-mile radius of SWD #1 revealed a total of 394 water rights. Of these, 389 are surface rights on creeks, three rights are for underground drains installed in the 1970s, and two are underground water rights for wells 20 and 60 feet deep installed in 1927 and 1877, respectively. According to the Utah Division of Water Rights regional engineer, no water is currently withdrawn from the Navajo Sandstone in Castle Valley, and communities rely on surface water and spring flow collected from the Wasatch Plateau.

Five test wells were installed in 1981 by Utah Power and Light (UP&L) in Section 1, Township 19 South, Range 9 East and Section 7, Township 19 South, Range 10 East (12 miles east-southeast of SWD #1, see Figure 2). The wells were drilled to the top of the Kayenta Formation and completed in the Navajo at depths ranging from 575 to 882 feet. Navajo thickness ranged from 340 to 404 feet.

Groundwater Quality

In general, groundwater is saline in much of the northern San Rafael Swell area. Most formations in the Swell contain fresh water only near the recharge areas. Fresh water occurs in the Navajo Sandstone near outcrop areas on the perimeter of the Swell where infiltration of meteoric water flushes out dissolved solids. In most other areas of the northern San Rafael Swell, with increasing distance from recharge areas, water in the Navajo shows degradation by interformational leakage and mixing with saline water from adjacent formations (e.g., the overlying Carmel Formation) which contain gypsum, halite, and other evaporite minerals (Hood and Patterson, 1984).

Water samples collected by UP&L from the Navajo at various depths in the above-mentioned wells were submitted for laboratory analyses of water quality. The analytical results indicate total dissolved solids (TDS) concentrations from 600 to 6,799 milligrams per liter (mg/l). These wells are only 5 miles downdip from numerous narrow canyon-bottom exposures of the Navajo, and only 8 miles downdip of broad Navajo exposures with little relief. The relative "freshness" of some of the samples of Navajo groundwater from the UP&L wells is probably a function of shallow depth and the proximity of the wells to this recharge area.

The salinity of groundwater typically increases with depth of burial and distance from the area of recharge (Freeze and Cherry, 1979, pg. 241-243). This degradation in quality is primarily related to the distance the groundwater has traveled (allowing more time for dissolution of minerals in the formation).

Although there are no deep-aquifer water-quality data available for the immediate vicinity of the proposed disposal well, it is reasonable to expect that water quality in the Navajo Sandstone degrades westward with increasing depth and distance from the outcrop; the Navajo at SWD #1 is under 6,300 feet of cover and approximately 20 miles downgradient from the nearest recharge area.

According to information provided by Texaco, the total dissolved solids concentration of groundwater collected from the Navajo Sandstone at the River Gas Corporation Drunkard's Wash injection well D-1 (immediately southwest of Price, Utah, see attached Figure 1) was analyzed at approximately 172,000 milligrams per liter (parts per million [ppm]), an extremely saline brine. The Navajo Sandstone at well D-1 is under approximately 5,700 feet of cover, and is about 28 miles north-northwest of the nearest outcrop (recharge area) of the Navajo in the San Rafael Swell. The TDS concentration of water removed from the Ferron Sandstone coal beds at Drunkard's Wash and injected in the Navajo Sandstone at

well D-1 is approximately 15,000 ppm; thus, the injection of Ferron water actually decreases the salinity of groundwater in the Navajo.

In December, 1994, Texaco drilled a test well to the Ferron Sandstone in southwest Section 26, Township 18 South, Range 7 East, approximately 1.5 miles southwest of proposed SWD #1. Groundwater collected from this test well at depths of 2,970 and 3,090 feet had a combined TDS concentration of 11,000 ppm, somewhat less saline than the water injected at Drunkard's Wash..

Potential Effects of Water-Disposal on Water Quality in the Navajo Aquifer

The effect of Ferron Sandstone groundwater disposal on water quality in the Navajo Sandstone in the vicinity of proposed disposal well SWD #1 will depend primarily on the quality of water removed from the Ferron during dewatering and gas production, and the quality of groundwater in the Navajo prior to injection of the Ferron water. The distance from the recharge area and the depth of burial of the Navajo Sandstone at the proposed SWD #1 site suggest that groundwater quality conditions similar to those at Drunkard's Wash may be encountered, and that injection of saline water from the Ferron may improve groundwater quality in the Navajo.

Hood and Patterson (1984, pg. 40) note that the relatively low transmissivity of the Navajo Sandstone results in a restricted cone of depression and large drawdown under pumping. Because groundwater injection and groundwater withdrawal in confined aquifers have equivalent but inverse effects on the potentiometric surface surrounding the injection or withdrawal point (Freeze and Cherry, 1979, pg. 454), it is reasonable to expect that injection will result in a high, but relatively restricted groundwater mound in the Navajo Sandstone. Considering the upgradient distance to fresher, more usable water in the Navajo (closer to the formation's recharge area 20 miles east of proposed SWD #1), it seems unlikely that the proposed injection of Ferron groundwater will adversely affect groundwater quality in the vicinity of future potential water-production sites.

Because deep groundwater-quality information is not currently available for the vicinity of the proposed SWD #1 well site, and because the quality of groundwater to be removed from the proposed production wells in the Ferron Sandstone is known from only one test well, the effects of water disposal at SWD #1 cannot be predicted with certainty. Additional data, including analysis of groundwater in both the Ferron and Navajo formations, and tests of Navajo Sandstone aquifer characteristics in well SWD #1 itself, will be needed to confidently predict the effects of water disposal on Navajo water quality.

It has been a pleasure to work with you on this project. If you have any questions or require additional information or services, please do not hesitate to call me at (801) 273-2416.

Sincerely,

MONTGOMERY WATSON

A handwritten signature in black ink, appearing to read "J.D. Garr". The signature is stylized with a large initial "J" and a cursive "D".

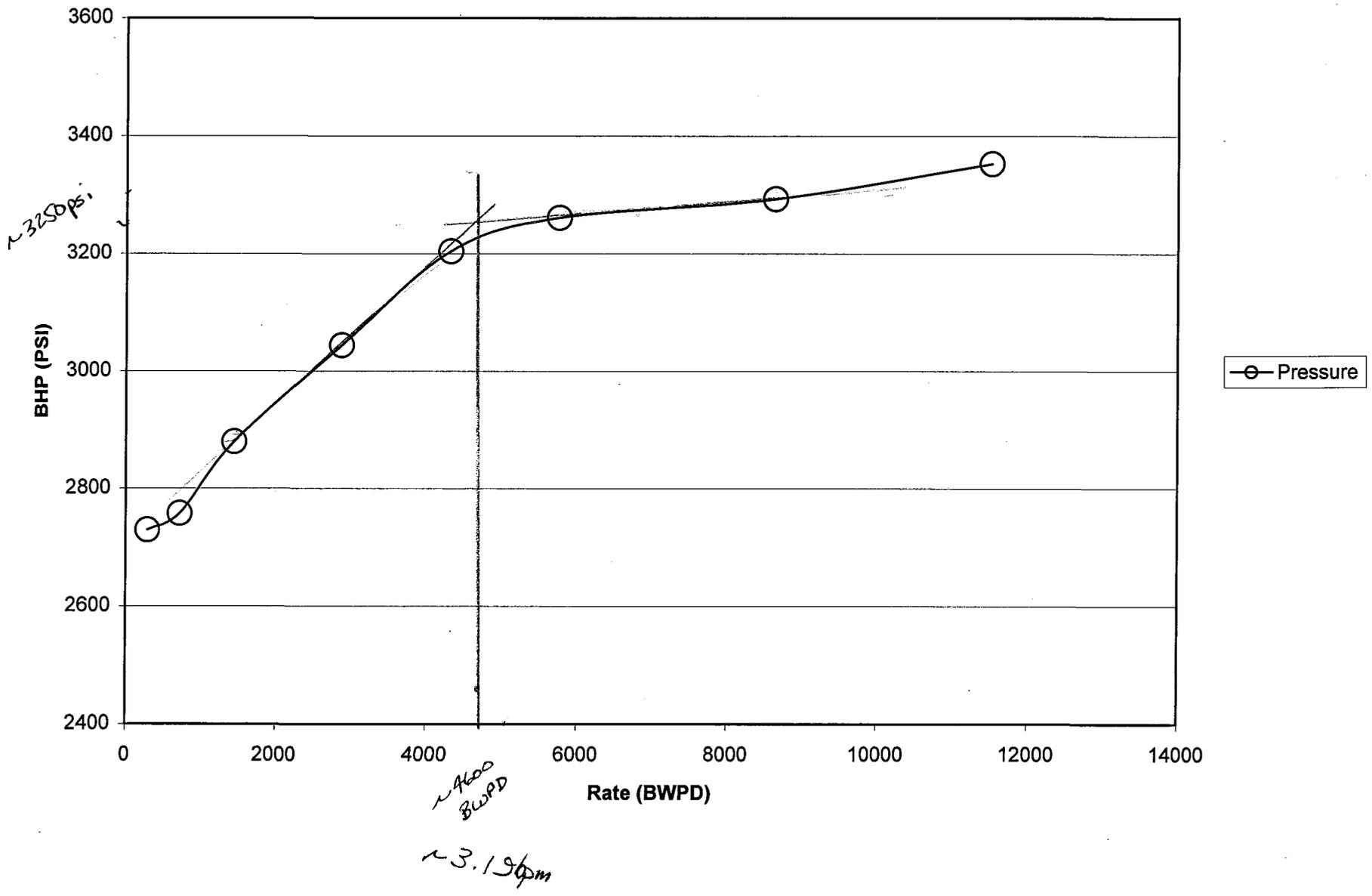
John D. Garr, R.G.
Senior Hydrogeologist

Attachments: Figure 1
Figure 2

REFERENCES CITED

- Freeze, R.A., and Cherry, J.A., 1979. Groundwater: Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 604 p.
- Hood, J.W., and Danielson, T.W., 1979. Aquifer tests of the Navajo Sandstone near Caineville, Wayne County, Utah: State of Utah Department of Natural Resources Division of Water Rights Technical Publication No. 66, 69 p.
- Hood, J.W., and Patterson, D.J., 1984. Bedrock aquifers in the northern San Rafael Swell area, Utah, with special emphasis on the Navajo Sandstone: State of Utah Department of Natural Resources Division of Water Rights Technical Publication No. 78, 128 p. text, 5 plates.
- Weiss, E., 1987. Groundwater flow in the Navajo Sandstone in parts of Emery, Grand, Carbon, Wayne, Garfield, and Kane counties, southeast Utah: U.S. Geological Survey Water-Resources Investigations Report 86-4012, 41 p.
- Witkind, I.J., 1988. Geologic map of the Huntington 30' x 60' quadrangle, Carbon, Emery, Grand, and Uintah Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1764. 1:100,000-scale.
- Witkind, I. J., 1995. Geologic map of the Price 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-2462. 1:250,000-scale.

Fracture Parting Pressure Graph



Well Name	location	KB	Navajo top	anhydrite thick.	depth anh	
D-5	sec. 16 14S 9E	6230	7002	38	6688	
D-9	sec. 13 14S 9E	6424	7179	36	6883	
Drew #1	sec. 34 14S 9E	6658	7102	35	6811	D-6
D-8	sec. 12 15S 9E	5828	6005	38	5738	
D-3	sec. 18 15S 10E	5707	5535	32	5269	
Curtis 41-15	sec. 15 18S 7E	6034	6865	35	6464	
Washbaord Wash 1-A	sec. 12 16S 9E	5852	5355	46?	5074	from mudlog
Willson 1	sec. 28 16S 10E	5671	3931	30	3725	
Lawrence 15-1	sec. 1 18S 8E	5744	4913	34	4638	
Farnham Dome U1-A	sec. 8 15S 12E	5701	2820	21	2650	
D-4	24, 14S-9E	5747	6026	37	5745	
D-7	2, 16S-7E	5836	5657	38	5395	
D-10	28, 15S-9E	6196	6618	39	6333	
D-11	13, 16S-9E	5805	5064	33	4795	
D-14	15, 16S-10E	5577	4548	35	4310	
D-2	19, 14S-9E	6397	7212	36	6893	old name: Arcadia Refining Co. Telonis No. 1
D-1	31, 14S-10E	5727	5688?	38	5404	old name: American Quasar Petroleum Co. Drunkrd's Wash No. 31-1
#1 Mounds Gov't	³ 8, 15S-12E	5438	2485	39	2261	
SWD #4	15, 17S-8E	5910	6550	38	6216	

January 25, 2002

API	WELL_NAME	SECTION	TOWNSHIP	RANGE	COMPL_DATE	TD_MD
4301510357	BULL CANYON ST 1	02	180S	100E	1953-12-21 00:00:00.00	4,833.00
4301511328	DESERT LAKE UNIT 1	01	170S	100E	1961-07-29 00:00:00.00	10,915.00
4301520190	CLARENCE WILLSON FEE 1(24-28)	28	160S	100E	1967-05-20 00:00:00.00	10,000.00
4301530013	USA 18-NO 1	18	180S	100E	1973-05-14 00:00:00.00	4,530.00
4301530039	USA FED 8-1	08	190S	090E	1975-08-27 00:00:00.00	6,215.00
4301530192	LAWRENCE 15-1	01	180S	080E	1984-08-11 00:00:00.00	9,728.00
4301530241	CLAWSON ET AL 1	10	190S	080E	1994-03-21 00:00:00.00	4,090.00

January 30, 2002

API	WELL_NAME	SECTION	TOWNSHIP	RANGE	PROD_ZONE_	SPUD_DATE_	COMPL_DATE	TD_MD	WELL_TYPE
4301520091	FEDERAL 1-27	27	180S	110E		1966-08-04	1966-09-25	6,861.0	PA
4301520328	1	05	210S	090E				480.00	PA
4301520330	1	08	210S	090E		1921-10-05	1922-05-01	2,790.0	PA
4301520332	2	08	210S	090E				20.00	PA
4301530028	TRUE FEDERAL	35	200S	080E	KBAB	1975-02-28	1975-03-21	4,457.0	PA
4301530032	TRUE FEDERAL	11	190S	110E	KBAB	1974-12-09	1975-01-04	2,384.0	PA
4301530039	USA FED 8-1	08	190S	090E	MSSP	1975-07-20	1975-08-27	6,215.0	PA
4301530047	BUSH 1	23	190S	100E		1977-03-29	1977-04-08	0.00	PA
4301530056	FEDERAL 1-C	23	190S	100E	MNKP	1978-07-07	1978-09-02	1,467.0	PA
4301530181	T-REX FEDERAL	27	180S	110E	NAVA	1983-12-14	1984-05-31	1,920.0	PA
4301530202	JEEP TRAIL U 1	28	180S	100E	MNKP	1984-07-31	1984-10-27	3,955.0	PA
4301530232	CELSIUS FED 8-1	08	210S	090E	KBAB	1989-11-06	1989-11-22	3,226.0	PA
4301530237	BUSH 1-A	23	190S	100E	MNKP	1989-12-08	1989-12-14	1,500.0	PA
4301530251	FEDERAL 1-17	17	210S	080E	KBAB	1995-08-07	1995-09-18	5,258.0	PA

January 30, 2002

API	WELL_NAME	SECTION	TOWNSHIP	RANGE	PROD_ZONE_	SPUD_DATE_	COMPL_DATE	TD_MD	WELL_TYPE
4300710161	UTAH OIL 1	12	150S	110E		1921-08-13 00:00	1924-01-08 00:00	3,235.00	PA
4300710819	USA FARNHAM DOME 1	07	150S	120E		1963-01-08 00:00	1963-05-12 00:00	8,509.00	PA
4300715114	FARNHAM DOME 2	12	150S	110E		1930-01-28 00:00	1930-06-15 00:00	3,114.00	PA
4300715115	FARNHAM DOME 3	12	150S	110E		1945-07-24 00:00	1945-12-31 00:00	3,250.00	PA
4300715116	FARNHAM DOME 4	12	150S	110E		1945-08-03 00:00	1946-06-05 00:00		PA
4300720362	1	12	150S	110E				3,246.00	PA
4300730149	BILLIE 1	34	150S	110E		1991-12-27 00:00	1992-06-03 00:00	7,424.00	PA
4301510042	ANDERSON & BROCKBANK 1-X	12	170S	090E		1953-02-25 00:00		1,212.00	PA
4301510354	HARRISON FED 1	13	160S	090E	DKTA	1954-07-12 00:00		1,810.00	PA
4301510357	BULL CANYON ST 1	02	180S	100E	PENN	1953-10-10 00:00	1953-12-21 00:00	4,833.00	PA
4301510634	STATE 1	32	180S	090E	NAVA	1947-11-27 00:00	1948-01-01 00:00	3,600.00	PA
4301510731	SNOW-FEE 1	09	190S	080E	FRSD	1960-01-14 00:00	1960-01-25 00:00	705.00	PA
4301510732	WILBERG-FEE 1	12	180S	080E	FRSD	1959-12-18 00:00	1959-12-20 00:00	170.00	PA
4301510733	WILBERG FEE 1-X	12	180S	080E	DKTA	1959-12-21 00:00	1960-01-10 00:00	2,002.00	PA
4301510802	RASMUSSEN 41-23	23	200S	070E	TNUNK	1962-05-02 00:00		207.00	PA
4301510825	FEDERAL MOUNDS 1	11	160S	110E	CMBRN	1964-11-28 00:00	1965-02-20 00:00	9,425.00	PA
4301511313	PRICE 1	28	190S	080E	FRSD	1957-10-01 00:00	1957-12-15 00:00	1,015.00	PA
4301511328	DESERT LAKE UNIT 1	01	170S	100E	MNKP	1961-04-29 00:00	1961-07-29 00:00	10,915.00	PA
4301515664	FEE 1-14	14	200S	070E	FRSD	1957-12-13 00:00	1957-12-30 00:00	921.00	PA
4301516216	RALPHS 1	30	190S	080E	FRSD	1958-01-02 00:00	1958-05-10 00:00	1,275.00	PA
4301520091	FEDERAL 1-27	27	180S	110E		1966-08-04 00:00	1966-09-25 00:00	6,861.00	PA
4301520190	CLARENCE WILLSON FEE 1(24-28)	28	160S	100E	MSSP	1967-02-21 00:00	1967-05-20 00:00	10,000.00	PA
4301520304	ANDERSON & BROCKBANK 1	12	170S	090E				1,700.00	PA
4301520306	1 B MCMULLEN	12	170S	090E			1954-04-12 00:00	1,872.00	PA
4301520308	1	31	180S	090E				833.00	PA
4301520310	2	31	180S	090E	MRSN			825.00	PA
4301520328	1	05	210S	090E				480.00	PA
4301520330	1	08	210S	090E		1921-10-05 00:00	1922-05-01 00:00	2,790.00	PA
4301520332	2	08	210S	090E				20.00	PA
4301530013	USA 18-NO 1	18	180S	100E	KBAB	1973-04-11 00:00	1973-05-14 00:00	4,530.00	PA
4301530028	TRUE FEDERAL 11-35	35	200S	080E	KBAB	1975-02-28 00:00	1975-03-21 00:00	4,457.00	PA
4301530032	TRUE FEDERAL 22-11	11	190S	110E	KBAB	1974-12-09 00:00	1975-01-04 00:00	2,384.00	PA
4301530039	USA FED 8-1	08	190S	090E	MSSP	1975-07-20 00:00	1975-08-27 00:00	6,215.00	PA
4301530047	BUSH 1	23	190S	100E		1977-03-29 00:00	1977-04-08 00:00	0.00	PA
4301530056	FEDERAL 1-C	23	190S	100E	MNKP	1978-07-07 00:00	1978-09-02 00:00	1,467.00	PA
4301530067	SKYLINE-SPJUT 16-1	16	160S	110E		1979-10-31 00:00	1980-10-17 00:00	8,872.00	PA
4301530077	FEDERAL MOUNDS 11-1	11	160S	110E	MNCYN	1981-02-19 00:00	1981-07-10 00:00	7,750.00	PA
4301530081	RALPHS 1-30A	30	190S	080E		1981-11-15 00:00	1982-05-01 00:00	1,300.00	SGW
4301530084	HAWTHORNE 1-34	34	200S	070E	TNUNK	1981-09-20 00:00	1997-07-08 00:00	1,400.00	PA
4301530088	HAWTHORNE FED 1-26	26	200S	070E	FRSD			1,110.00	PA
4301530101	FERRON-MRC 1	11	210S	070E	FRSD	1982-03-31 00:00	1982-04-05 00:00	1,160.00	PA
4301530103	RALPHS 2-30	30	190S	080E		1982-05-11 00:00	1982-10-01 00:00	2,022.00	SGW
4301530108	ORANGEVILLE FED 16-6	06	180S	080E	MNCS	1982-05-23 00:00	1982-06-25 00:00	3,915.00	SOW
4301530135	FERRON FED 14-27	27	170S	080E	TNUNK	1982-10-31 00:00	1983-09-22 00:00	2,553.00	SGW
4301530136	FERRON-MRC 9	11	210S	070E	FRSD	1982-11-03 00:00	1983-05-18 00:00	1,105.00	PA
4301530144	CASTLEDALE-DENISON 1	10	190S	080E	DKTA	1983-07-16 00:00	1983-07-22 00:00	1,088.00	PA
4301530174	DESERT LAKE U 5	34	170S	110E	WHRM	1983-08-31 00:00	1983-09-15 00:00	3,333.00	PA
4301530181	T-REX FEDERAL 1-27	27	180S	110E	NAVA	1983-12-14 00:00	1984-05-31 00:00	1,920.00	PA
4301530183	HARVEY FED 31-1	31	180S	090E	FRSD	1984-06-12 00:00	1984-06-13 00:00	200.00	PA
4301530188	ORANGEVILLE U FED 10-21	21	180S	080E	DKTA	1984-04-13 00:00	1984-04-17 00:00	2,137.00	PA
4301530192	LAWRENCE 15-1	01	180S	080E	MSSP	1984-05-15 00:00	1984-08-11 00:00	9,728.00	PA
4301530202	JEEP TRAIL U 1	28	180S	100E	MNKP	1984-07-31 00:00	1984-10-27 00:00	3,955.00	PA
4301530232	CELSIUS FED 8-1	08	210S	090E	KBAB	1989-11-06 00:00	1989-11-22 00:00	3,226.00	PA
4301530237	BUSH 1-A	23	190S	100E	MNKP	1989-12-08 00:00	1989-12-14 00:00	1,500.00	PA
4301530241	CLAWSON ET AL 1	10	190S	080E	FRSD	1996-11-22 00:00	1996-11-30 00:00	4,090.00	PA
4301530251	FEDERAL 1-17	17	210S	080E	KBAB	1995-08-07 00:00	1995-09-18 00:00	5,258.00	PA
4301530273	SCORPION 1-23	23	160S	090E	FRSD	1999-01-31 00:00	1999-05-05 00:00	1,730.00	PA

Post-it® Fax Note	7671	Date	1/30/02	# of pages	▶
To	BoblaMarre	From	Chris Kierst		
Co./Dept.	Texaco	Co.	DOGEM		
Phone #		Phone #	(801)538-5337		
Fax #	(303)793-4642	Fax #	(801)359-3940		

PRICE

14S-8E

14S-9E

14S-10E

14S-11E

15S-8E

15S-9E

15S-10E

15S-11E

15S-8

15S-7E

RANCH

FERRON AMH

16S-8E

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15S-7E

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15S-8E

15S-7E

RANCH

FEL

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16S-9E

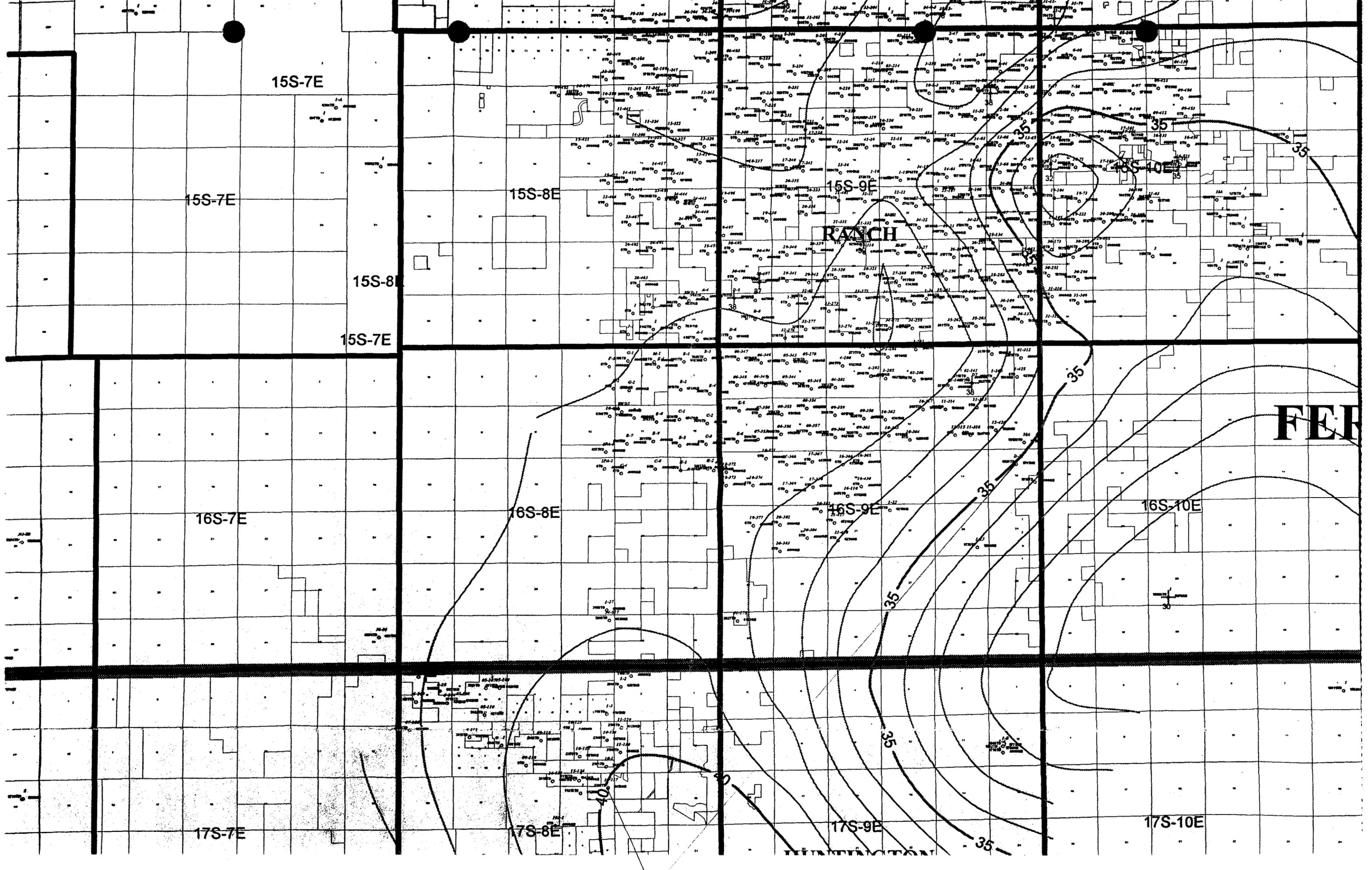
16S-10E

17S-7E

17S-8E

17S-9E

17S-10E



AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Emery,)

I, Ken Larson, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 15th day of January, 2002 and that the last publication of such notice was in the issue of such newspaper dated the 15th day of January 2002.

Ken G. Larson

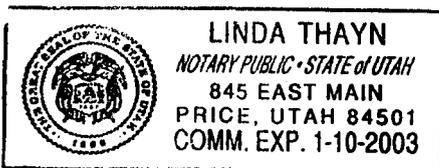
Ken G Larson - Publisher

Subscribed and sworn to before me this 15th day of January, 2002.

Linda Thayne

Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$ 67.44



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

NOTICE OF AGENCY ACTION
CAUSE NO. UIC 284
IN THE MATTER OF THE
APPLICATION OF TEXACO
EXPLORATION AND PRODUCTION,
INCORPORATED FOR
ADMINISTRATIVE APPROVAL OF THE
SWD #4 WELL LOCATED IN SECTION
15, TOWNSHIP 17 SOUTH, RANGE 8
EAST, EMERY COUNTY, UTAH, AS A
CLASS II INJECTION WELL
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE EN-
TITLED MATTER

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing and informal adjudicative proceeding to consider the application of Texaco Exploration and Production, Incorporated for administrative approval of the SWD #4 well, located in Section 15, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the Navajo Sandstone and Wingate Sandstone, Kayenta Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Texaco Exploration and Production, Incorporated.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
-s John R. Baza
Associate Director

Published in the Emery County Progress January 15; 2002.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

143 SOUTH MAIN ST.
 P.O. BOX 45838
 SALT LAKE CITY, UTAH 84145
 FED. TAX I.D.# 87-0217663

Newspaper Agency Corporation
 The Salt Lake Tribune  DESERET NEWS

CUSTOMER'S
 COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/13/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201G4QN1
SCHEDULE	
START 01/13/02 END 01/13/02	
CUST. REF. NO.	
UIC 284	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
58 LINES 2.00 COLUMN	
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	134.56
TOTAL COST	
134.56	

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

NOTICE OF AGENCY ACTION
 CAUSE NO. UIC 284

IN THE MATTER OF THE APPLICATION OF TEXACO EXPLORATION AND PRODUCTION, INCORPORATED, FOR ADMINISTRATIVE APPROVAL OF THE SWD #4 WELL LOCATED IN SECTION 15, TOWNSHIP 17 SOUTH, RANGE 8 EAST, EMERY COUNTY, UTAH, AS A CLASS II INJECTION WELL.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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Dated this 8th day of January, 2001.

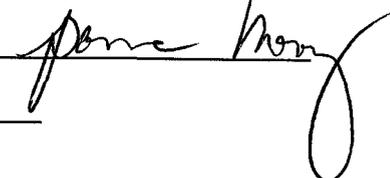
STATE OF UTAH
 DIVISION OF OIL, GAS & MINING
 /s/ John R. Baza
 Associate Director

8201G4QN

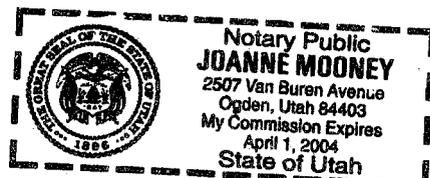
AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA DIV OF OIL-GAS & MINING WAS PUBLISHED BY THE CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 01/13/02 END 01/13/02

SIGNATURE 

DATE 01/13/02



**THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
 PLEASE PAY FROM BILLING STATEMENT.**

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Emery,)

I, Ken Larson, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 15th day of January, 2002 and that the last publication of such notice was in the issue of such newspaper dated the 15th day of January 2002.

Ken G. Larson

Ken G Larson - Publisher

Subscribed and sworn to before me this 15th day of January, 2002.

Linda Thayne

Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$ 67.44

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

NOTICE OF AGENCY ACTION
CAUSE NO. UIC 284
IN THE MATTER OF THE
APPLICATION OF TEXACO
EXPLORATION AND PRODUCTION,
INCORPORATED FOR
ADMINISTRATIVE APPROVAL OF THE
SWD #4 WELL LOCATED IN SECTION
15, TOWNSHIP 17 SOUTH, RANGE 8
EAST, EMERY COUNTY, UTAH, AS A
CLASS II INJECTION WELL
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE EN-
TITLED MATTER

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing and informal adjudicative proceeding to consider the application of Texaco Exploration and Production, Incorporated for administrative approval of the SWD #4 well, located in Section 15, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

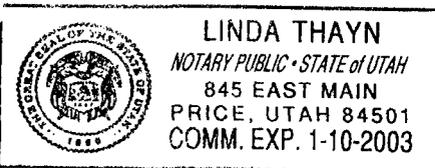
Selective zones in the Navajo Sandstone and Wingate Sandstone, Kayenta Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Texaco Exploration and Production, Incorporated.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 6th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
John R. Baza
Associate Director

Published in the Emery County Progress January 15, 2002.



143 SOUTH MAIN ST.
 P. O. BOX 45838
 SALT LAKE CITY, UTAH 84145
 FED. TAX I. D. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune  DESERET NEWS

Brad
 CUSTOMER'S *Milice*
 COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/13/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201G4QN1
SCHEDULE	
START 01/13/02 END 01/13/02	
CUST. REF. NO.	
UIC 284	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
58 LINES	2.00 COLUMN
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	134.56
TOTAL COST	
134.56	

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF TEXACO EXPLORATION AND PRODUCTION, INCORPORATED FOR ADMINISTRATIVE APPROVAL OF THE SWD #4 WELL LOCATED IN SECTION 15, TOWNSHIP 17 SOUTH, RANGE 8 EAST, EMERY COUNTY, UTAH, AS A CLASS II INJECTION WELL

: NOTICE OF AGENCY ACTION
 : CAUSE NO. UIC 284

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application for Texaco Exploration and Production, Incorporated for administrative approval of the SWD #4 well located in Section 15, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the Navajo Sandstone and Wingate Sandstone, Kayenta Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Texaco Exploration and Production, Incorporated.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
 DIVISION OF OIL, GAS & MINING
 /s/ John R. Baza
 Associate Director

8201G4QN

Notary Public
JOANNE MOONEY
 2507 Van Buren Avenue
 Ogden, Utah 84403
 My Commission Expires
 April 1, 2004
 State of Utah



AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA DIV OF OIL-GAS & MINING WAS PUBLISHED BY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 01/13/02 END 01/13/0

SIGNATURE *John R. Baza*

DATE 01/13/02

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

**Texaco Exploration and
Production Inc.**
MidContinent Business Unit
11111 S. Wilcrest
Houston, TX 77099
Tel 281 561 4894
kephaim@chevrontexaco.com

Ian M. Kephart
Production Engineer
CoalBed Methane Team

ChevronTexaco

February 8, 2002

Carol Daniels
State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: **UDOGM Form 8; Completion Reports**
SWD #4; Sec. 15, Twn. 17S, 8E; Emery County, UT
State of Utah "BB" 5-107; Sec. 5, 17S, 8E; Emery County, UT
State of Utah "BB" 5-109; Sec. 5, 17S, 8E; Emery County, UT
State of Utah "CC" 10-123; Sec. 10, 17S, 8E; Emery County, UT

Dear Carol:

Enclosed are the completion reports for the subject wells. Please note my new address as I have moved to Houston, TX. All correspondence needs to go this address from this point forward.

Thank you very much for your time. Please feel free to contact me at (281) 561-4894 if you have any questions.

Sincerely,



Ian M. Kephart
Price/Ferron Production Engineer

RECEIVED

FEB 19 2002

DIVISION OF
OIL, GAS AND MINING

CONFIDENTIAL

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

AMENDED REPORT [] FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [] GAS WELL [x] DRY [] OTHER []
b. TYPE OF WORK: NEW WELL [x] HORIZ. LATS. [] DEEP-EN [] RE-ENTRY [] DIFF. RESVR. [] OTHER []

2. NAME OF OPERATOR: Texaco North American Production, Inc.

3. ADDRESS OF OPERATOR: 11111 S. Wilcrest Dr. CITY Houston STATE TX ZIP 77099 PHONE NUMBER: (281) 561-4894

4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1557' FNL, 692' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: Same as above AT TOTAL DEPTH: Same as above

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER: SWD #4

9. API NUMBER: 4301530490

10. FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 15 17S 8E

12. COUNTY EMERY

13. STATE UTAH

14. DATE SPUDDED: 9/24/2001 15. DATE T.D. REACHED: 11/15/2001 16. DATE COMPLETED: 1/9/2002 ABANDONED [] READY TO PRODUCE [x]

17. ELEVATIONS (DF, RKB, RT, GL): 5895' GL, 5910' KB

18. TOTAL DEPTH: MD 8,001 TVD 8,001

19. PLUG BACK T.D.: MD 7,938 TVD 7,938

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) GR, SP, DENSITY-NEUTRON, ARRAY INDUCTION, CCL, USIT 12-3-01 12-3-01 12-3-01

23. WAS WELL CORED? NO [x] YES [] (Submit analysis) WAS DST RUN? NO [x] YES [] (Submit report) DIRECTIONAL SURVEY? NO [x] YES [] (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

Table with columns: HOLE SIZE, SIZE/GRADE, WEIGHT (#ft.), TOP (MD), BOTTOM (MD), STAGE CEMENTER DEPTH, CEMENT TYPE & NO. OF SACKS, SLURRY VOLUME (BBL), CEMENT TOP **, AMOUNT PULLED. Rows include 17 1/2", 12 1/4", 8 3/4" hole sizes.

25. TUBING RECORD

Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD). Row: 4 1/2", 6,511, 6,511.

26. PRODUCING INTERVALS

Table with columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD). Rows: (A) NAVAJO, (B), (C), (D) WINGATE.

27. PERFORATION RECORD

Table with columns: INTERVAL (Top/Bot - MD), SIZE, NO. HOLES, PERFORATION STATUS. Rows: 6,561-6,732, 6,768-6,852, 6,884-6,906, 7,094-7,186.

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL. Rows: 6561'-6732', 6768'-6852'; 6884'-6906', 7094'-7186'.

29. ENCLOSED ATTACHMENTS:

Electrical/Mechanical Logs, Geological Report, DST Report, Directional Survey, Sundry Notice for Plugging and Cement Verification, Core Analysis, Other.

30. WELL STATUS: SHUT-IN/BGH INACTIVE Injector

RECEIVED

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

Table with 8 columns: DATE FIRST PRODUCED, TEST DATE, HOURS TESTED, TEST PRODUCTION RATES, OIL - BBL, GAS - MCF, WATER - BBL, PROD. METHOD. Includes rows for choke size and interval status.

INTERVAL B (As shown in item #26)

Table with 8 columns: DATE FIRST PRODUCED, TEST DATE, HOURS TESTED, TEST PRODUCTION RATES, OIL - BBL, GAS - MCF, WATER - BBL, PROD. METHOD. Includes rows for choke size and interval status.

INTERVAL C (As shown in item #26)

Table with 8 columns: DATE FIRST PRODUCED, TEST DATE, HOURS TESTED, TEST PRODUCTION RATES, OIL - BBL, GAS - MCF, WATER - BBL, PROD. METHOD. Includes rows for choke size and interval status.

INTERVAL D (As shown in item #26)

Table with 8 columns: DATE FIRST PRODUCED, TEST DATE, HOURS TESTED, TEST PRODUCTION RATES, OIL - BBL, GAS - MCF, WATER - BBL, PROD. METHOD. Includes rows for choke size and interval status.

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Table with 6 columns: Formation, Top (MD), Bottom (MD), Descriptions, Contents, etc., Name, Top (Measured Depth). Lists formations like Ferron Sand, Navajo, Kayenta, Wingate, etc.

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Ian M. Kephart TITLE Production Engineer
SIGNATURE [Signature] DATE 2/7/2002

This report must be submitted within 30 days of

- completing or plugging a new well
• drilling horizontal laterals from an existing well bore
• recompleting to a different producing formation
• reentering a previously plugged and abandoned well
• significantly deepening an existing well bore below the previous bottom-hole depth
• drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

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FEB 19 2002

DIVISION OF OIL, GAS AND MINING

Julia L. Caldaro-Baird
Geologist
Mid-Continent SBU

Texaco Exploration and Production Inc.
11111 S. Wilcrest, Houston, TX 77099
P.O. Box 36366, Houston, TX 77236
Tel 281 561 4903
caldajl@chevrontexaco.com

To: Chris Kierst
CC: Bob Lamarre
From: Julia Caldaro-Baird
Date: 02/20/02
Re: Water Disposal Wells

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FEB 25 2002

DIVISION OF
OIL, GAS AND MINING

Chris,

Here are the geologic interpretations that you asked for.

1. Isopach map

- The isopach map of the Carmel anhydrite also shows that there is little variation in the thickness across the area of interest.
- The contour interval is 0.5 feet, a more typical contour interval of 5 to 10 feet across the field would show almost no change.

2. Cross-section

- The east-west cross section of the anhydrite shows that there is little variation in the thickness of the anhydrite. (Compare to the north-south stratigraphic cross-section of the anhydrite, submitted by Bob Lamarre a few weeks ago, which also shows consistent thickness.)
- There are minor discrepancies in what is considered top Navajo sandstone. The tops picked here are consistent with structural interpretation of the USGS map (discussed below).
- The proposed injection zone is approximately 300-350 feet below the bottom of the anhydrite in the Huntington area and consists of 70-100 feet of shale to shaly sandstone.
- The interval between the anhydrite and the proposed Navajo injection zone thins to the east to 150 feet at the #1 Mounds Government well near the Farnham Dome area.
- Note that in the #1 Mounds Gov't, the anhydrite was a difficult to pick on the well log. I have included a copy of the stratigraphic log (mudlog) which clearly shows the presence of anhydrite (4).

3. Structural Map

- The extension of the USGS structure map was constructed by Bob Lamarre and submitted for the SWD #1 proposal in Buzzards Bench field, northwest of Orangeville in 1995. I have checked the top Navajo in the wells indicated and concur with the original structure map.

February 20, 2002

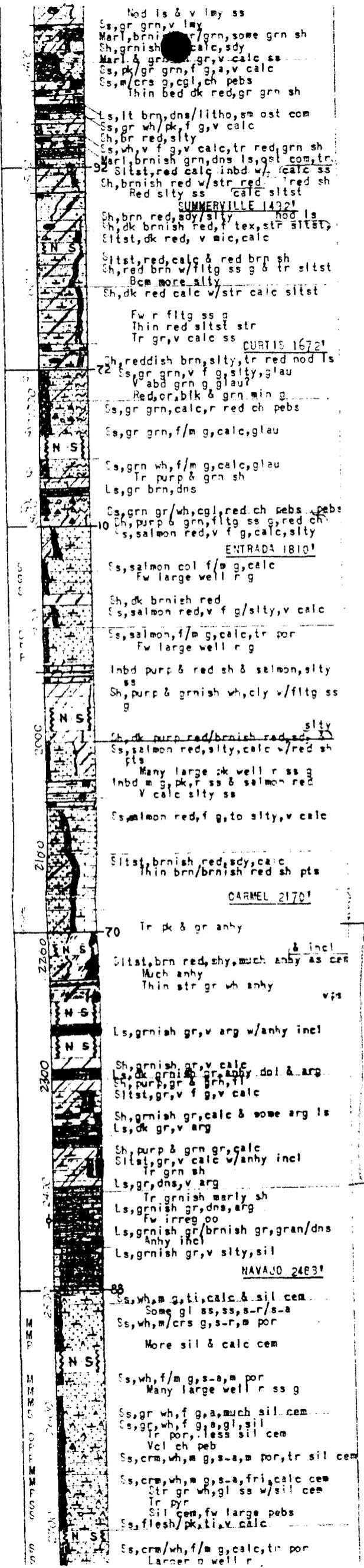
Also included are 5) a spreadsheet of tops picked, and 6) a base geologic map showing cross-section.

Please let me know if you have any questions 281-561-4903.

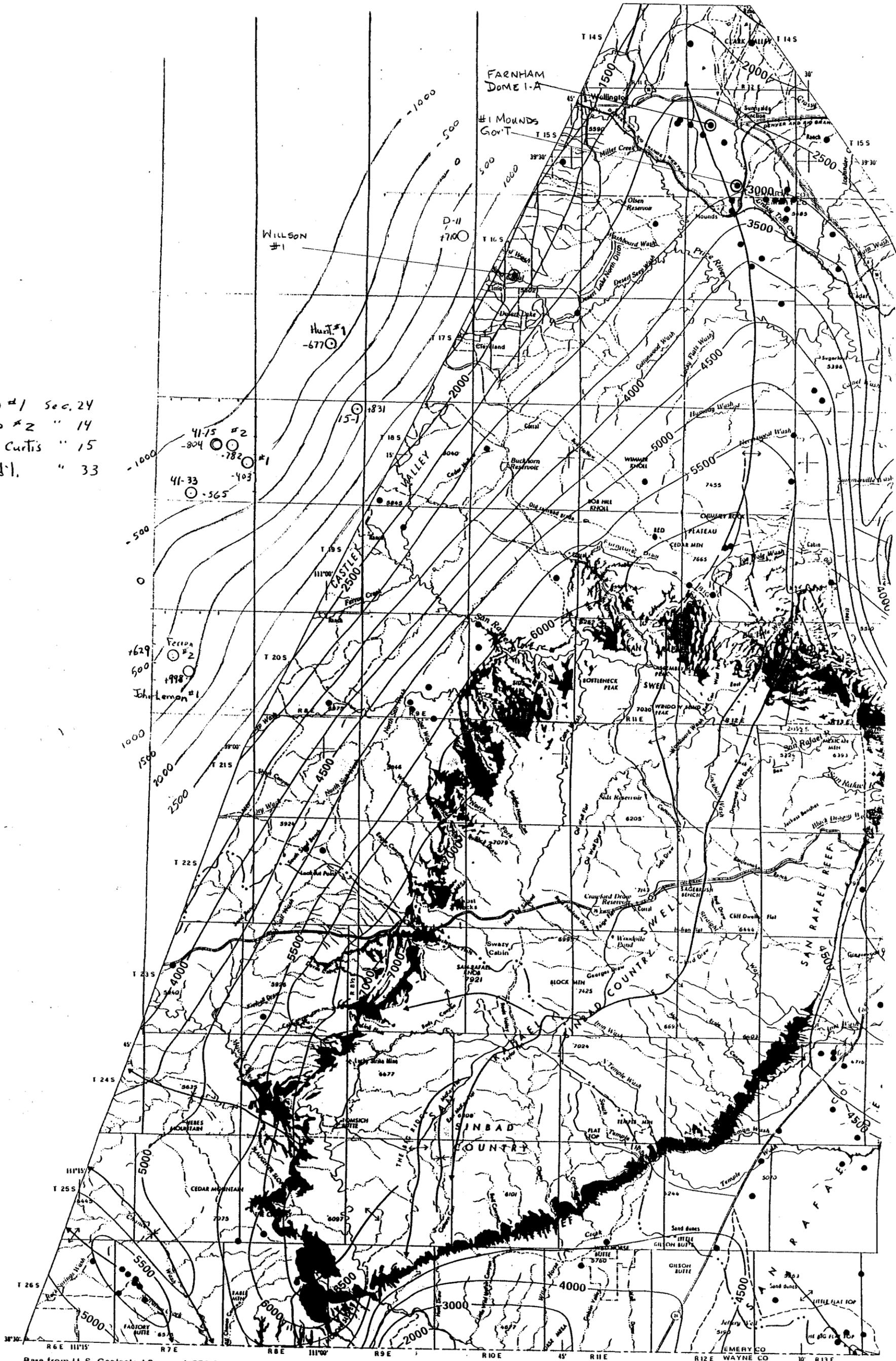
Thank you,

Julia Caldaro-Baird
ChevronTexaco - MCBU
Geologist - Coalbed Methane
caldajl@chevrontexaco.com

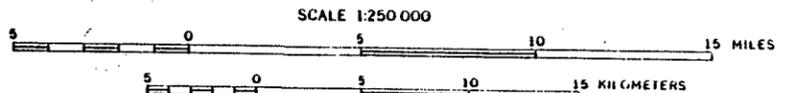
- USGS Structure Map Top Navajo 1:250,000 quadrangles, Price Utah, 1970, and Salina, Utah, 1970; Technical Publication No. 78, Plate 4, 1984 (Hood and Patterson).
- USGS Geologic Map of the Price 1° x 2° Quadrangle, Utah, 1:250,000 Map 1-2462 (Witkind)



#1 SWD #1 Sec. 24
 #2 SWD #2 " 14
 #5 Jack Curtis " 15
 #11-33 Fed'l. " 33



Base from U. S. Geological Survey 1:250,000 quadrangles, Price Utah, 1970, and Salina, Utah, 1970



National Geodetic Vertical Datum of 1929

MAP SHOWING STRUCTURE CONTOURS ON THE TOP OF THE N1/
 THE NORTHERN SAN RAFAEL SWELL AREA, U

ConocoTexaco
11117 S. Wilcrest Drive
Houston, TX 77099

facsimile transmittal

To: Chris Kierst Fax: 801-359-3940

From: Ian M. Kephart Date: 02/27/02

Re: SWD #4 Additional Info Pages: Cover + 3

CC:

Urgent For Review Please Comment Please Reply Please Recycle

Chris,

Enclosed is the additional information you requested regarding the UIC permit for the SWD #4 well. I've enclosed well-bore descriptions for the W.H. Leonard 15-127 and Lammon 10-1 wells, as well as the data sheet I've received from Schlumberger Well Testing for the Bottom-hole pressure test. Both the mud logs and open-hole logs will be mailed to you. If you have any more questions, please call me at (281) 561-4894.

Thanks,

 Ian

RECEIVED

FEB 27 2002

DIVISION OF
OIL, GAS AND MINING



FARMINGTON OPERATING UNIT
Ferron FMT
Huntington Field

L.M. Lemmon 10-01

SE/SE - S10.T17S, R8E

660' FSL, 792' FEL

EMERY COUNTY, UT

API-4301530242

Elevation - 5918'

Drilling Data

Rig - Tonto Drilling Co. - No.5000

Start Date - 1-4-1995

Finish Date - 1-11-1995

Completion Data

Rig - Key

Start Date - 12-29-1995

Finish Date - 1-24-1996

Well Shut-In

FRACTURE TREATMENT

1000 gal 15% HCL, Flush-2%KCL
83,100# 20/40 Sand, 440 SCF N2

500 gal 15% HCL, Flush-2%KCL
78,400# 20/40 Sand

Conductor Pipe

Spud Date -

Set 40' of 14" pipe

Surface String

Drill 12-1/4" hole to 315'

Run 311' of 8 7/8" pipe-24# K55 ST&C

Set w/200 sx "G" - CMT circ

Production String

Drill 7 7/8" Hole to 4375'

Run 56 jts - 5-1/2" pipe -17# N-80, LTC

Set w/135 sx premium cement

Tubing String

Set 56 jts J55 2 7/8" tubing at 1739'

Pump Data

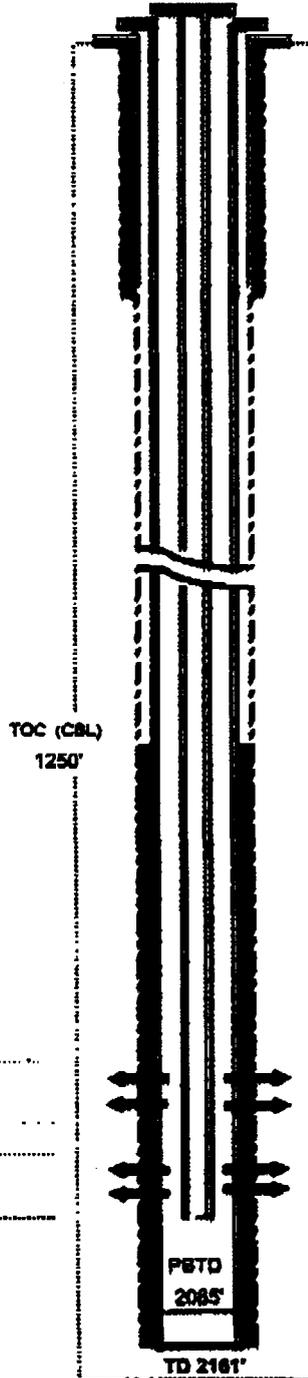
PERFORATIONS

1864' - 1930' (Ferron Sand)

0.37" hole w/23 shots, 1 SPF

2032' - 2043'. (Ferron Coal)

0.88" hole, 120" phasing, w/8 SPF



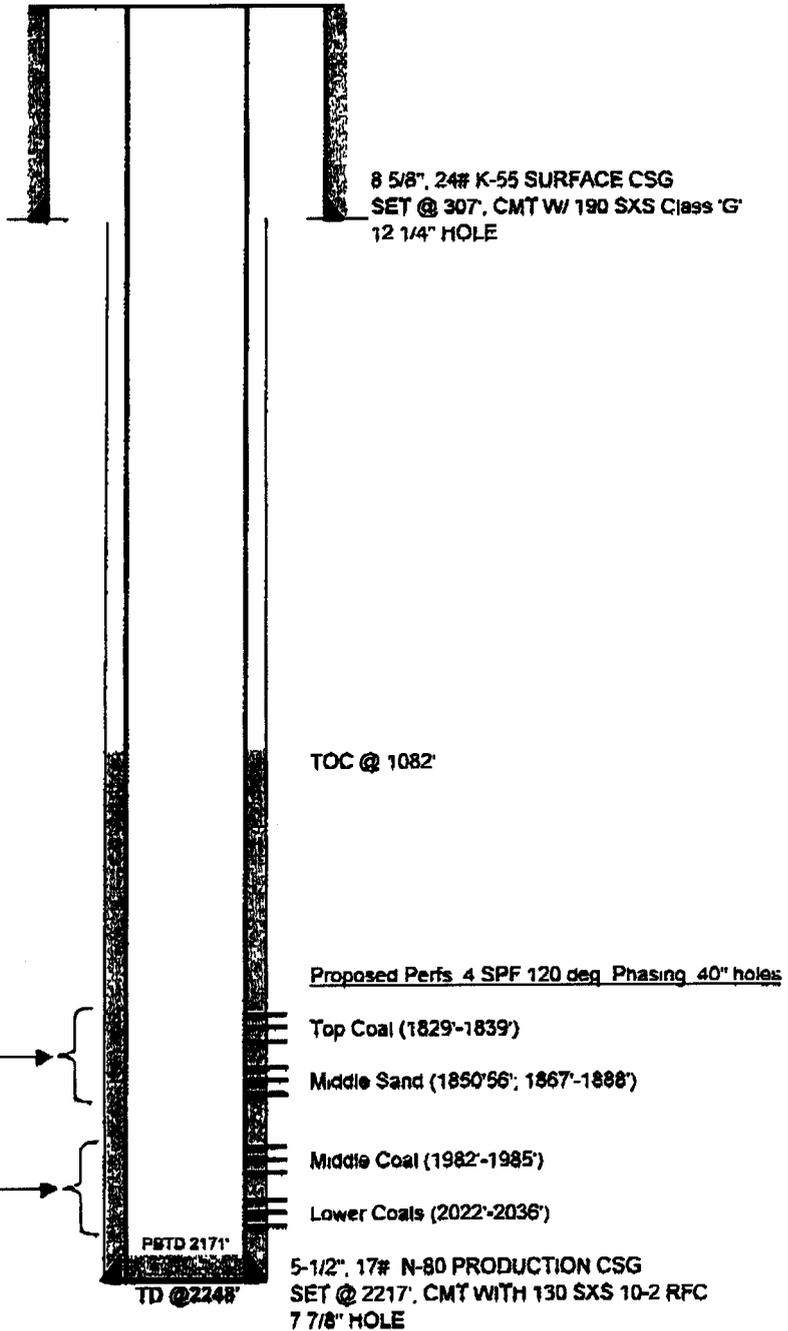
W.H. Leonard 15-127

SEC 15, T 17S, R 8E
845' FNL, 985' FEL
EMERY COUNTY, UT
API #43-015-30485

GROUND LEVEL @ 5902'
KB LEVEL @ 5913'

Current Completion

SPUD DATE: 6/20/2001
COMPLETION DATE:



8 5/8", 24# K-55 SURFACE CSG
SET @ 307', CMT W/ 190 SXS Class 'G'
12 1/4" HOLE

TOC @ 1082'

Proposed Perfs 4 SPF 120 deg Phasing 40" holes

Proposed Stage 2 Frac

Top Coal (1829'-1839')

Middle Sand (1850'56"; 1867'-1888')

Proposed Stage 1 Frac

Middle Coal (1982'-1985')

Lower Coals (2022'-2036')

PSTD 2171'

TD @ 2248'

5-1/2", 17# N-80 PRODUCTION CSG
SET @ 2217', CMT WITH 130 SXS 10-2 RFC
7 7/8" HOLE



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

March 13, 2002

Texaco Exploration and Production, Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401

Re: Application for Class II Injection Permit, SWD #4 Well, Section 15, Township 17 South, Range 8 East, Emery County, Utah

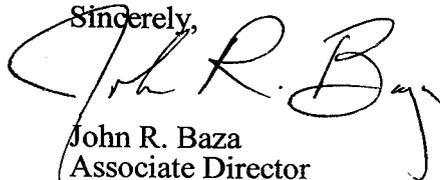
Gentlemen:

Pursuant to Utah Admin. Code 'R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code 'R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Texaco Exploration & Production, Inc.
3. Composite produced water analysis and compatibility test data from Huntington, UT, area Ferron Sandstone Member coalbed methane wells.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337.

Sincerely,



John R. Baza
Associate Director

er
cc: Dan Jackson, EPA
Emery County Commission

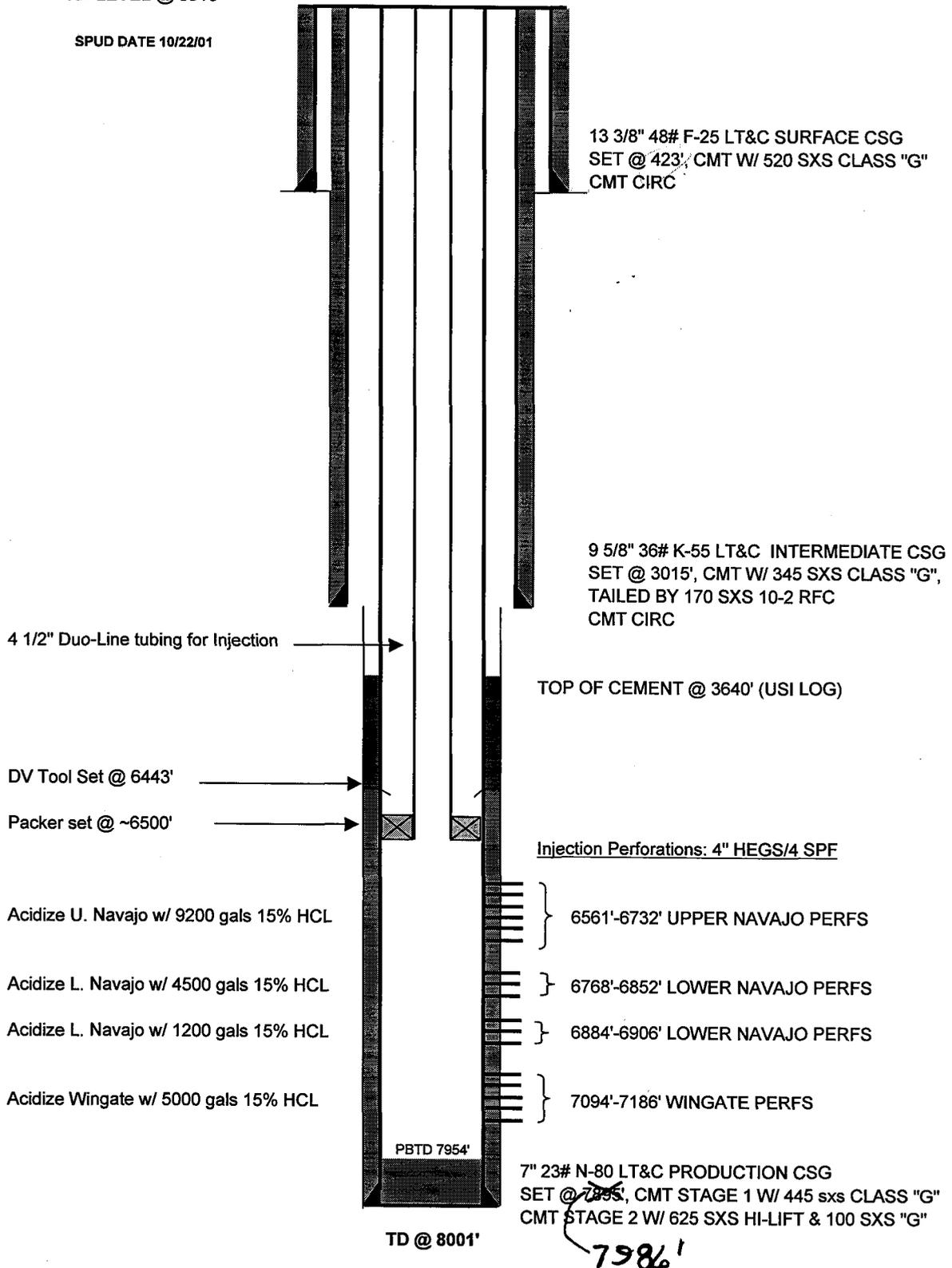
SWD #4

SEC 15, T 17S, R 8E
1557' FNL, 692' FEL
EMERY COUNTY, UT
API # 43-015-30490

GROUND LEVEL @ 5895'
KB LEVEL @ 5910'

CURRENT

SPUD DATE 10/22/01



**Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397**

SWD #4

Requirements R649 - 5 - 2 - 2.6

A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The fluid to be injected into SWD #4 will be a composite of waters gathered from gas wells that extract water from the Ferron coal seams. These wells are located within the current Texaco Huntington Shallow Gas Unit. See the attached list of the current wells in the unit.

It is estimated that up to approximately 10,000 barrels of water could be injected daily at 1750 psi.

See Attached List of wells that could be potential water sources

Current Huntington Unit Well List of Potential Water Sources

LEASE AND WELL #	API #	SEC	TWN	RNG
UP&L #6-102	4301530441	6	17S	8E
UP&L #6-103	4301530483	6	17S	8E
UP&L #6-104	4301530442	6	17S	8E
State of Utah "GG" 5-107	4301530479	5	17S	8E
State of Utah "AA" 7-106	4301530396	5	17S	8E
State of Utah "BB" 5-108	4301530480	5	17S	8E
State of Utah "BB" 5-109	4301530481	5	17S	8E
State of Utah "BB" 5-110	4301530482	5	17S	8E
State of Utah "BB" 8-111	4301530486	8	17S	8E
Wm S Ivie, et al "BB" 9-118	4301530443	9	17S	8E
State of Utah "BB" 9-120	4301530444	9	17S	8E
Gardner Trust, et al 16-121	4301530478	16	17S	8E
State of Utah "CC" 10-123	4301530454	10	17S	8E
State of Utah "CC" 10-124	4301530438	10	17S	8E
State of Utah "FF" 10-125	4301530458	10	17S	8E
American West Group, et al 15-126	4301530484	15	17S	8E
WH Leonard, et al 15-127	4301530485	15	17S	8E
State of Utah "FF" 11-129	4301530459	11	17S	8E
State of Utah "FF" 11-130	4301530462	11	17S	8E
Utah Federal "M" 6-25	4301530292	6	17S	8E
Lemmon 10-1	4301530242	10	17S	8E
State of Utah "T" 36-10	4301530268	36	16S	7E

Texaco Exploration and Production Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401
(505) 325-4397

SWD #4

Requirements R649 - 5 - 2 - 2.7

Standard laboratory analyses of the fluid to be injected,
the fluid in the formation into which the fluid is being injected,
and the compatibility of the fluids.

*Should this be documented
anyway? cjk 2/19/02*

As in previous Injection Permits it is shown that the Navajo and Ferron are compatible and have no scaling tendencies. Texaco injects scale inhibitor into the injection water to prohibit any possible scale that may form.

See Attached Lab Analyses of Navajo, Wingate, and Ferron* Formations

*Ferron water sample was taken from our current production in Orangeville. There is no Huntington composite production as of yet. Ferron water in Huntington is expected to be similar to Orangeville.

*Should a Huntington composite water
be documented, for instance, by requiring
samples from all or some of the
listed possible source wells?
cjk 2/19/02*



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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PO Box 145801
Salt Lake City, Utah 84114-5801
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801-359-3940 (Fax)
801-538-7223 (TDD)

March 13, 2002

Texaco Exploration and Production, Inc.
3300 North Butler, Suite 100
Farmington, New Mexico 87401

Re: Application for Class II Injection Permit, SWD #4 Well, Section 15, Township 17 South, Range 8 East, Emery County, Utah

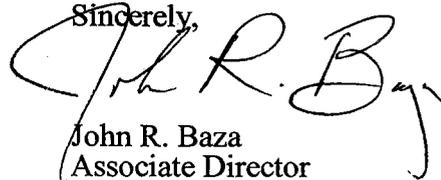
Gentlemen:

Pursuant to Utah Admin. Code 'R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code 'R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Texaco Exploration & Production, Inc.
3. Composite produced water analysis and compatibility test data from Huntington, UT, area Ferron Sandstone Member coalbed methane wells.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337.

Sincerely,



John R. Baza
Associate Director

er
cc: Dan Jackson, EPA
Emery County Commission



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
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Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-284

Operator: Texaco Exploration and Production, Incorporated
Wells: SWD #4
Location: Section 15, Township 17 South, Range 8 East,
County: Emery
API No.: 43-015-30490
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on March 13, 2002.
2. Maximum Allowable Injection Pressure: 1,750 psig
3. Maximum Allowable Injection Rate: 10,000 BWPD or restricted by pressure limitation.
4. Injection Interval: 6,561 feet to 7,186 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:

John R. Baza
Associate Director

March 15, 2002

Date

Cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Moab Field Office

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT STATEMENT OF BASIS

Applicant: Texaco Exploration & Production, Inc. **Well:** SWD #4

Location: T17S, R8E, S15, Emery Co., UT **API:** 4301530490

Ownership Issues:

The well is located on Fee surface and mineral estates. An affidavit of notification of operators, owners and surface owners within a half-mile radius has been provided.

Well Integrity:

Description of the Casings and Cement:

CASING PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	423'	408'	13 3/8"	48#	F-25	LT&C
Intermediate	12 1/4"	3015'	3000'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	8001'	7986'	7"	23#	N-80	LT&C

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>Number Sacks</u>	<u>Cement Type</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
Surface			300'	Surface	520	G	1.15	15.8
Intermediate		Tail	300'	Surface	170	RFC 10-2	1.63	14.2
		Lead	3000'	Surface	345	G	3.63	11
Production	6500'	2 nd Stage	6500'	Surface	725	Hi-Lift	1.91	11
		1 st Stage	7895'	6500'	445	G	1.15	15.8

The UltraSonic Imager USI Log was not run with the casing under pressure and no

Cement Bond Log was run. Under these conditions a microannulus could conceivably be present. An examination of the referenced log revealed that the confining layer in the well had generally been very well cemented (well in excess of 90%) for nearly 800 feet above the injection perforations, including the entire confining Carmel Formation. It is not likely that such a successful cement job would permit the formation of much of a microannulus. In as much as this logging technology is unfamiliar to all of the Division petroleum staff, we have elected to accept this log for documentation of a successful cement program over the confining interval, but will attempt to have the logging subcontractor (Schlumberger, Vernal UT) educate our staff at our next staff meeting (May, 2002, in Roosevelt). The casing is also acceptably cemented for more than 1,000 feet below the top of the injection perforations, although the quality is not as high as in the area of the confining interval. This should be adequate to prevent any upward migration of fluid between the 7-inch casing and the borehole.

The 7-inch production casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone, in a gross interval from 6,561 feet to 7,186 feet and a Step Rate injection test was run.

Ground Water Protection:

High quality ground water will probably be encountered in the unconfined Quaternary alluvium aquifer along Huntington Creek, which flows adjacent to the location. Below this is the Blue Gate Shale Member, proper, of the Mancos Shale. The conductor, surface and intermediate casings have all been set and cemented in place and will adequately protect the shallow alluvial sediments. Cement was circulated back to surface for all the casing strings, although the 7 inch production casing was cemented in two stages (above and below 6,500 feet). Other subsurface water is unlikely between the surface alluvium and the Cretaceous-age Ferron Sandstone Member of the Mancos Shale.

The Ferron Sandstone Member including the associated coal seams produces the water to be injected. The Ferron Sandstone is found at 1,883 feet, Total Depth, in the SWD #4 well. Injection water from 22 listed potential source wells will be collected and transferred to the injection site. Analysis of a composite of produced waters, currently being injected, from Texaco Chevron's nearby Orangeville area coalbed methane production wells, has revealed Total Dissolved Solids levels of 9,101 milligrams per liter. The operator will test a composite of Huntington area coalbed methane produced waters as soon as a representative distribution of wells is regularly contributing to the sample.

The Navajo Sandstone in the SWD #4 provided water samples which tested at 15,134 milligrams/liter Total Dissolved Solids, as measured by an independent laboratory. It occurs at 6,549 feet, Total Depth. Water from the Wingate Sandstone was tested as containing 43,612 milligrams/liter of Total Dissolved Solids. Testing was conducted on the water samples on January 9, 2002, by the local (Huntington, UT) laboratories of Commercial Testing & Engineering Company.

The Navajo Sandstone is a known fresh water aquifer at many locations in the state. In the San Rafael Swell area, the quality of Navajo Sandstone ground water is generally best near the outcrop and recharge areas, becoming poorer with increased depth and distance from recharge [Utah State Department of Natural Resources (DNR) Technical Publication # 78]. This premise has been supported by test results on samples taken from the subject well and other disposal wells in the field. Injection of produced water from the Ferron Sandstone will result in the dilution of the more saline Navajo Sandstone, Kayenta Formation and Wingate Sandstone formation waters. These saline waters are predominant in the Huntington area, owing to the distance from outcrop, depth of burial and a location

situated on the steeply dipping flank of the northwest side of the San Rafael Swell. Analysis of samples of injection zone produced waters from the SWD #4 for scaling tendencies will have to wait until a representative Huntington composite produced water sample is available.

The proposed operation is expected to have little effect on the overall hydrology of the aquifer because of its great extent in comparison with the volume of fluid that will likely be injected over time. According to DNR Technical Publication #78, the Navajo Sandstone alone contains approximately 94,000,000 acre-feet of water in transient storage. Injection at a rate of 14,400 barrels per day for 10 years would result in the injection of approximately 6,775 acre-feet of produced water. This equates to about 0.007% of the water already in storage in the Navajo Sandstone.

During a step rate injection test conducted by Dowell-Schlumberger on the SWD #4 well on January 2, 2002, the apparent formation parting pressure measured at approximately 3,250 psia. This was measured while injecting at a rate of about 3.19 barrels per minute or about 4,600 barrels per day. The operator's original UIC Form 1 proposal was changed by an amending UIC Form 1 re-submittal, with attached cover letter, dated January 21, 2002, which provided a new proposed maximum injection rate of nearly 7 BPM or 10,000 BPD and a maximum injection pressure of 1,750 psig. The proposed maximum injection pressure is above the fracture parting pressure of the injection intervals but well below the measured formation parting pressure of the suprajacent high modulus, high stress limestone and high stress, sealing anhydrite beds.

Several reports, which have been prepared by Tesseract Corporation and Stim-Lab document that fracture propagation occurs downward or laterally in the proposed injection zones. This is largely controlled by the above two impermeable, high stress lithologies overlying the Navajo Sandstone. The anhydrites make up a structurally

plastic seal, which attenuates the upward propagation of fractures, forming the upper ultimate confining beds of the injection zone. Updated in-situ stress profile analyses of the confining and target strata were commissioned by some coalbed methane operators and performed by the referenced subcontractors. These indicate that the operators could inject the target zones at pressures, which exceed the formation parting pressure in this well (about 3,250 psia), without breaching the anhydrite and limestone confining strata. From the UltraSonic Imager USI Log, it is concluded that the cement coverage through these zones is very good and that injected waters are unlikely to have an escape conduit up the annulus of the wellbore.

After reviewing the application and documentation submitted by Texaco Exploration and Production, Incorporated, I find that the injection of Ferron Sandstone produced waters into the proposed zones at the SWD #4 location is likely to result in insignificant dilution of the more saline waters present in the target injection zones. After injection ceases, increased pressure about the wellbore will abate over time. It is therefore to be concluded that no long term negative surficial or ground water impacts are anticipated resultant of the proposed injection operation. Saline Ferron Sandstone produced waters will be safely sequestered in deeply buried, extensive and geologically-sealed aquifers containing ground water which is already inferior to that being injected.

Oil/Gas & Other Mineral Resources Protection:

The Ferron coal/gas zone is protected by casings and cements, which have been considered in the Well Integrity portion of this report. No other known potentially producible mineral or hydrocarbon zones were observed in the well. The injection zone is isolated over 4,300 feet below the productive interval of the Ferron

Sandstone and good to excellent cement bond covers a sufficient length of hole to protect the shallower producing strata.

The well records of the Division of Oil, Gas and Mining document two shallower Ferron Sandstone coalbed methane production wells within the half mile area of review of the proposed disposal well. Both of these are modern completions in good mechanical condition.

Bonding:

Texaco Exploration and Production, Incorporated has an \$80,000 surety bond in place, which ensures plugging of this well.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and the Emery County Progress (Castledale, UT). In addition, copies of the notice were provided to the EPA, BLM (Moab, UT), Emery County Planning, Texaco Exploration and Production, Incorporated. The notice named the lately amended, proposed interval for injection to be selective zones in the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone. The actual gross perforated interval descends from 6,561 feet to 7,186 feet.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies. The operator must have an analysis made of a representative Ferron Sandstone Member composite produced water sample from the Huntington area, reasonably soon after this may be easily accomplished. The Division staff recommends approval of this application contingent upon no additional or

unforeseen information being presented which is relevant to this analysis or modifies the data presented herein.

Reviewer(s): Christopher J. Kierst

Date: March 13, 2002

BOTTOMHOLE PRESSURE LOG

CLIENT: **TEXACO**

WELL: **SWD#2 4**

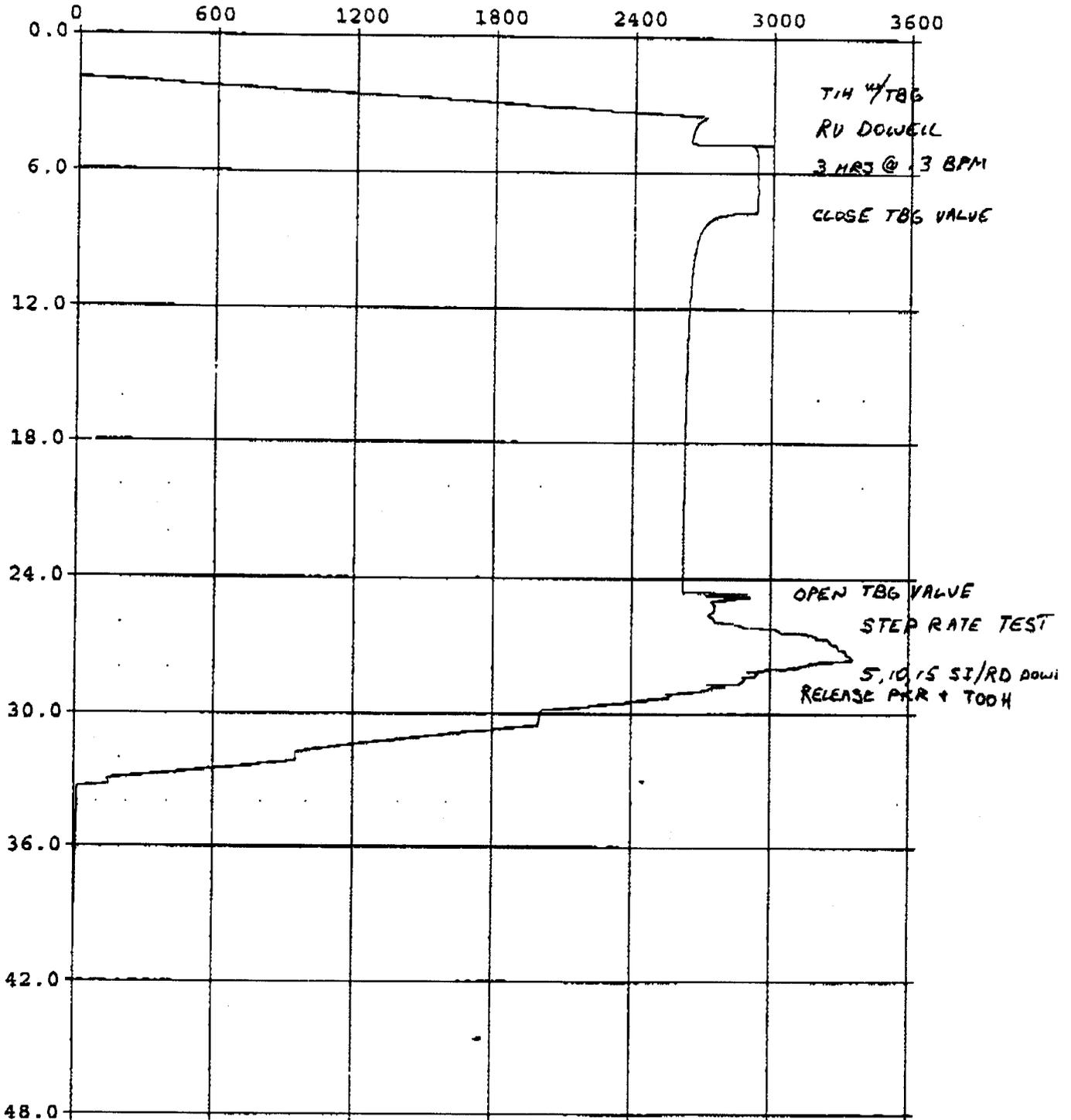
*as per conversation w/
Ian Keppard of Texaco/Chvron
on 2/28/02*

Field Report No. 7878213
Instrument No. SLSR0 1052

Time Reference: Elap. Time=0.0 hr at 6:35:45 on Wed. 2-JAN-02

↓ ELAPSED
TIME (HR)

BOTTOMHOLE PRESSURE (PSIA) →



SCHLUMBERGER Testing


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 FAX: (435) 653-2436

January 9, 2002

 TEXACO EXPLORATION
 P.O. BOX 618
 ORANGEVILLE UTAH 84537
 RON WIRTH

 Sample identification by
 TEXACO EXPLORATION

 ID:SWD #4 RUN 14#
 NAVAJO FORMATION
 RECEIVED 1350
 SAMPLED 1330

 Kind of sample Water
 reported to us

Sample taken at SWD #4

Sample taken by Laine Norton

Date sampled December 26, 2001

Date received December 26, 2001

PARTIAL REPORT

Page 1 of 1

Analysis report no. 59-23731

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time	Analyst
Acidity	<5	5	mg/l as CaCO ₃	D1067-92	12-26-2001 1400	MK
Alkalinity, Bicarbonate	1218	5	mg/l as HCO ₃	EPA 310.1	12-27-2001 1400	CB
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	12-27-2001 1400	CB
Alkalinity, Total	998	5	mg/l as CaCO ₃	EPA 310.1	12-27-2001 1400	CB
Anions	170.3		meq/l		01-09-2002 1015	SB
Calcium, Total	435	1	mg/l	EPA 215.1	12-27-2001 1301	MK
Cations	246.3		meq/l		01-09-2002 1015	SB
Chloride	5080.9	0.5	mg/l	EPA 300.0	01-08-2002 0747	SC
Conductivity	21400		umhos/cm	SM2510-B	01-03-2002 1400	SC
Density	1				12-26-2001 1415	CB
Hardness, Total	1272		mg/l as CaCO ₃	SM2340-B	01-09-2002 1015	SB
Iron, Total	60.2	0.1	mg/l	EPA 236.1	12-28-2001 1122	MK
Magnesium, Total	45	1	mg/l	EPA 242.1	12-27-2001 1402	MK
Nitrogen, Ammonia	10.4	0.1	mg/l as N	EPA 350.3	01-08-2000 0900	SC
Nitrogen, Nitrate-Nitrite	0.09	0.03	mg/l as N	EPA 300.0	12-28-2001 0800	CB
Nitrogen, Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	12-28-2001 0800	CB
pH	7.62		pH units	EPA 150.1	12-27-2001 0730	CB
Potassium, Total	194	1	mg/l	EPA 258.1	12-28-2001 0943	MK
Silicon, Si	xxxx	0.05		EPA 200.7	-	
Sodium, Total	4965	1	mg/l	EPA 273.1	12-28-2001 1025	MK
Solids, Total Dissolved	15134	10	mg/l	EPA 160.1	12-26-2001 1415	CB
Solids, Total Suspended	684	5	mg/l	EPA 160.2	12-26-2001 1415	CB
Sulfate	339	0.5	mg/l	EPA 300.0	01-03-2002 1000	SC
Cation/Anion Balance	18.2		%		01-09-2002 1015	SB

 Respectfully submitted,
 COMMERCIAL TESTING & ENGINEERING CO.


 Huntington Laboratory

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January 9, 2002

TEXACO EXPLORATION
P.O. BOX 618
ORANGEVILLE UTAH 84537
RON WIRTH

Sample identification by
TEXACO EXPLORATION

ID: HUNTINGTON SWD #4
WINGATE FORMATION

Kind of sample Water
reported to us

Sample taken at SWD #4

RECEIVED 1435
SAMPLED 1630

Sample taken by Ron Wirth

Date sampled December 18, 2001

Page 1 of 1

Date received December 19, 2001

Analysis report no. 59-23710

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time/Analyst	
Acidity	<5	5	mg/l as CaCO ₃	D1067-92	12-21-2001 1000	SC
Alkalinity, Bicarbonate	4146	5	mg/l as HCO ₃	EPA 310.1	12-27-2001 1400	CB
Alkalinity, Carbonate	389	5	mg/l as CO ₃	EPA 310.1	12-27-2001 1400	CB
Alkalinity, Total	4046	5	mg/l as CaCO ₃	EPA 310.1	12-27-2001 1400	CB
Anions	789.9		meq/l		01-08-2002 1400	SB
Calcium, Total	51	1	mg/l	EPA 215.1	12-27-2001 1301	MK
Cations	712.6		meq/l		01-08-2002 1400	SB
Chloride	23406.8	0.5	mg/l	EPA 300.0	01-08-2002 0747	SC
Conductivity	62100		umhos/cm	SM2510-B	12-20-2001 1225	SC
Density	1.02		g/ml		12-18-2001 1450	CB
Hardness, Total	230		mg/l as CaCO ₃	SM2340-B	01-08-2002 1400	SB
Iron, Total	5400.0	0.1	mg/l	EPA 236.1	12-28-2001 1122	MK
Magnesium, Total	25	1	mg/l	EPA 242.1	12-27-2001 1402	MK
Nitrogen, Ammonia	31.8	0.1	mg/l as N	EPA 350.3	12-21-2001 0800	SC
Nitrogen, Nitrate-Nitrite	0.31	0.03	mg/l as N	EPA 300.0	12-19-2001 1500	CB
Nitrogen, Nitrite	<0.03	0.03	mg/l as N	EPA 300.0	12-19-2001 1500	CB
pH	7.04		pH units	EPA 150.1	12-19-2001 1600	CB
Potassium, Total	1084	1	mg/l	EPA 258.1	12-28-2001 0943	MK
Silicon, Si	78.5	0.05	mg/l	EPA 200.7	12-26-2001 1700	JE
Sodium, Total	15640	1	mg/l	EPA 273.1	12-28-2001 1025	MK
Solids, Total Dissolved	43612	10	mg/l	EPA 160.1	12-20-2001 0945	CB
Solids, Total Suspended	12578	5	mg/l	EPA 160.2	12-20-2001 0945	CB
Sulfate	2341	0.5	mg/l	EPA 300.0	12-19-2001 1500	CB
Cation/Anion Balance	5.1		%		01-08-2002 1400	SB

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

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February 21, 2001

TEXACO EXPLORATION
P.O. BOX 618
ORANGEVILLE UTAH 84537
ROBERT SCHAFFITZEL

Sample identification by
TEXACO EXPLORATION

ID: swd-1 - *Injection*
Orangeville composite
RECEIVED 1415
SAMPLED 1100

Kind of sample Water
reported to us

Sample taken at

Sample taken by TEXACO

Date sampled February 8, 2001

Date received February 8, 2001

SILICON RUN AT DENVER LAB.

Analysis report no. 59-22342

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time/Analyst	
Alkalinity, Bicarbonate	7571	5	mg/l as HCO ₃	EPA 310.1	02-13-2001 1010	CB
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	02-13-2001 1010	CB
Alkalinity, Total	6205	5	mg/l as CaCO ₃	EPA 310.1	02-13-2001 1010	CB
Anions	166.0	----	meq/l	-----	02-21-2001 0930	MK
Barium, Total	21	1	mg/l	EPA 208.1	02-20-2001 1200	MK
Calcium, Total	26	1	mg/l	EPA 215.1	02-20-2001 1030	MK
Cations	188.0	----	meq/l	-----	02-21-2001 0930	MK
Chloride	1482	20	mg/l	EPA 300.0	02-19-2001 0915	SC
Conductivity	14965	1	umhos/cm	SM2510-B	02-06-2001 1250	CB
Iron, Total	1.4	0.1	mg/l	EPA 236.1	02-20-2001 0900	MK
Magnesium, Total	14	1	mg/l	EPA 242.1	02-20-2001 1045	MK
Nitrogen, Ammonia	4.9	0.5	mg/l as N	EPA 350.3	02-20-2001 0800	SC
Nitrogen, Nitrate-Nitrite	1.29	0.03	mg/l as N	EPA 300.0	02-09-2001 0815	SC
pH	7.44	----	pH units	EPA 150.1	02-09-2001 1100	CB
Potassium, Total	25	1	mg/l	EPA 258.1	02-20-2001 0915	MK
Silicon	8.60	0.05	mg/l	EPA 200.7	02-21-2001 1100	JE
Sodium, Total	4250	50	mg/l	EPA 273.1	02-20-2001 0930	MK
Solids, Total Dissolved	9101	10	mg/l	EPA 160.1	02-12-2001 0930	CB
Sulfate	5	1	mg/l	EPA 300.0	02-19-2001 0915	SC

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

[Signature]
Huntington Laboratory

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TRANSACTION REPORT

P. 01

MAR-27-2002 WED 10:25 AM

FOR: OIL, GAS & MINING

801 359 3940

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MAR-27	10:24 AM	12815613418	43"	2	SEND	OK	129	
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Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

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DATE: 3/27/02

FAX #: (281) 561-3418

ATTN: Ian Kephart

COMPANY: Texaco Chevron

DEPARTMENT: _____

NUMBER OF PAGES: (INCLUDING THIS ONE) 2

FROM: Christopher Kierst (801) 538-5337



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 Division Director

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 We are sending from a Sharp facsimile machine. Our telecopier number is (801)359-3940.

MESSAGE: Included in this transmission, please find
a facsimile copy of the signed Underground Injection
Control Permit for the SWD #4 well (43-015-36490).
Please confirm receipt.

Important: This message is intended for the use of the individual or entity of which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.



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UNDERGROUND INJECTION CONTROL PERMIT

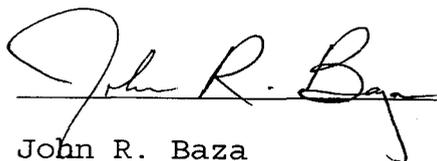
Cause No. UIC-284

Operator: Texaco Exploration and Production, Incorporated
Wells: SWD #4
Location: Section 15, Township 17 South, Range 8 East,
County: Emery
API No.: 43-015-30490
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on March 13, 2002.
2. Maximum Allowable Injection Pressure: 1,750 psig
3. Maximum Allowable Injection Rate: 10,000 BWPD or restricted by pressure limitation.
4. Injection Interval: 6,561 feet to 7,186 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:


John R. Baza

Associate Director

March 15, 2002

Date

Cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Moab Field Office



Chevron U.S.A. Production Company
Mid-Continent Business Unit
P.O. Box 36366
Houston, TX 77236
Phone 713 754 2000

April 9, 2002

Mr. John Baza,
Associate Director of Oil and Gas
Utah Department of Natural Resources
Division of Oil, Gas & Mining
1594 W. North Temple St., Suite 1210
Salt Lake City, UT 84114-5801

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APR 12 2002

DIVISION OF
OIL, GAS AND MINING

Dear Mr. Baza:

As you may recall from our meeting last year, we planned to combine the assets of Chevron U.S.A. Inc. ("CUSA"), by merger, and Texaco Exploration and Production Inc. ("TEPI"), by assignment, into a new entity which we referred to as "Newco LP". Along the way, additional information came to light and it was decided that this proposed corporate restructure would not be preferable. Therefore, CUSA and TEPI have continued to operate as separate entities.

We are now planning a simpler restructuring process where TEPI will assign most of its assets/operatorship to CUSA effective May 1, 2002. We plan to use the existing CUSA bonds/letters of credit, operator identification numbers, etc., for the TEPI assets that will be assigned.

A task force of Land, Regulatory and Environmental Compliance personnel are finishing the work that was begun last year to assign TEPI's assets—using the same forms and procedures as before. We have "new faces" in this task force due to reassignments and departures. In some cases, it may be worthwhile to visit you and your staff in person where new people are involved or if we need to review/clarify your forms and procedures. Otherwise, we will endeavor to complete the work to assign TEPI's assets/operatorship to CUSA and deliver the requisite materials to you in a timely manner.

During discussions last year, our focus was on Land, Regulatory and Environmental matters. The Finance organization also desires to join in this effort. For State Tax, Royalty and Regulatory reporting purposes (applicable to production from May 2002 through December 2002), we intend to generate two reports and two payments.

However, the reporting company name and identification number will be CUSA's. Beginning with January 2003 production and thereafter, we will issue only one CUSA report and payment. We trust this plan meets with your approval. Any questions or comments should be directed to Rick Dunlavy (telephone 713/752-7411, rickdunlavy@chevrontexaco.com).

We appreciate the cooperation and guidance you provided us in the past, and we look forward to bringing these efforts to a conclusion.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Don R. Sellars".

Don R. Sellars

Sr. Environmental Specialist

Chevron U.S.A. Inc.
Midcontinent Business Unit
Ferron Operations
Emery County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.
Disposal Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main	Fed or State
N5700	15	170S	080E	4301530490	SWD 4	4	APD	WD	FEE
N5700	11	180S	070E	4301530303	SWD 3	4	I	WD	FEE
N5700	14	180S	070E	4301530323	SWD 2	4	A	WD	FEE
N5700	24	180S	070E	4301530272	SWD 1	4	A	WD	FEE
N5700	23	18S	080E	4301530510	SWD 5	4	I	WD	FEE

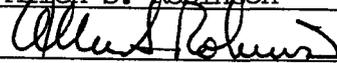
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Orangeville & Huntington, Emery County, Utah (See Attached Well List)		API Number
Location of Well Footage : See attached well locations County : Emery		Field or Unit Name See Attached Well List
QQ, Section, Township, Range: State : UTAH		Lease Designation and Number See Attached Well List

EFFECTIVE DATE OF TRANSFER: 5/1/2002

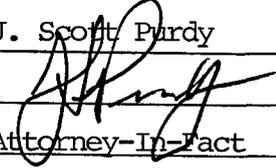
CURRENT OPERATOR

Company: Texaco Exploration and Production Inc
 Address: 3300 North Butler, Suite 100
city Farmington state NM zip 87401
 Phone: (505) 325-4397
 Comments:

Name: Allen S. Robinson
 Signature: 
 Title: Attorney-In-Fact
 Date: April 30, 2002

NEW OPERATOR

Company: Chevron U.S.A. Inc.
 Address: P.O. Box 36366
city Houston state TX zip 79702
 Phone: (915) 687-2000
 Comments:

Name: J. Scott Purdy
 Signature: 
 Title: Attorney-In-Fact
 Date: May 1, 2002

(This space for State use only)

Transfer approved by: 
 Title: Field Services Manager

Approval Date: 8/5/02

Comments: SWD#4

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MAY 06 2002

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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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Operator Name Change</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See Attached List of Wells</u>
2. NAME OF OPERATOR: <u>Chevron U.S.A. Inc.</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>BLM & State of Utah</u>
3. ADDRESS OF OPERATOR: <u>P.O. Box 36366</u> CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77236</u>		7. UNIT or CA AGREEMENT NAME: <u>Orangeville & Huntington</u>
PHONE NUMBER: <u>(281) 561-3443</u>		8. WELL NAME and NUMBER: <u>See Attached List of Wells</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See Attached List of Wells</u>		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: <u>Emery</u>		STATE: <u>UTAH</u>

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

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

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

Effective May 1, 2002, Chevron U.S.A. Inc. is the new operator of the attached list of subject wells and leases that were previously operated by Texaco Exploration and Production Inc. The subject wells are located North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following surety bonds:

STATE OF UTAH Bond #: 103521627-0010 in the amount of \$80,000. (This bond will replace United Pacific Insurance Company bond number U89-75-80-0059. We respectfully request this bond be released and returned.)

BLM Nationwide Bond#: U89-75-81-0034 in the amount of \$300,000.

Key Contacts:

Ron Wirth - Operations Supervisor - 435 748-5395 x1
Texaco Exploration & Production Inc.

J. S. Purdy
J. S. Purdy, Attorney-In-Fact

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MAY 06 2002
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OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>Allen S. Robinson</u>	TITLE <u>Attorney-In-Fact</u>
SIGNATURE <i>Allen S. Robinson</i>	DATE <u>April 30, 2002</u>

(This space for State use only)

7. Federal and Indian Units:

The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. Federal and Indian Communization Agreements ("CA"):

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. Underground Injection Control ("UIC")

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/05/2002

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 08/01/2002
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 08/01/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 103521627-0018
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 08/01/2002

COMMENTS:

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number SWD 4 Permit #UIC-284.1	API Number 4301530490
Location of Well Footage : 1557' FNL 692' FEL County : Emery QQ, Section, Township, Range: SENE 15 11S 7E State : UTAH	Field or Unit Name Buzzard Bench Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 8/17/2004

CURRENT OPERATOR

N0210

Company: Chevron U.S.A. Inc.
Address: 11111 S. Wilcrest
city Houston state Tx zip 77099
Phone: (281) 561-4991
Comments:

Name: Kenneth W. Jackson
Signature: *Kenneth W. Jackson*
Title: Regulatory Specialist
Date: _____

NEW OPERATOR

N2615

Company: XTO ENERGY INC.
Address: 2700 Farmington Ave. Bldg K. Suite 1
city Farmington state NM zip 87401
Phone: (505) 324-1090
Comments:

Name: James L. Death
Signature: *James L. Death*
Title: Vice President - Land
Date: 8/16/04

(This space for State use only)

Transfer approved by: *David H. [Signature]*
Title: VIC Geologist

Approval Date: 9/28/04

Comments:

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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Various Leases
2. NAME OF OPERATOR: XTO ENERGY INC. <i>N2615</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 2700 Farmington Bldg K, Suite <i>Farmington</i> CITY STATE <i>NM</i> ZIP <i>87401</i>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY: <i>Emery</i>		8. WELL NAME and NUMBER: See attached list
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: <i>UTAH</i>		9. API NUMBER: Multiple
		10. FIELD AND POOL, OR WILDCAT: Buzzard Bench
		PHONE NUMBER: (505) 324-1090

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

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

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

Effective August 1, 2004, the operator changed from Chevron U.S.A. Inc. to XTO ENERGY INC. for all wells on the attached list.

BLM #579173

State and Fee Bond #104312762

Kenneth W. Jackson

Kenneth W. Jackson Regulatory Specialist ChevronTexaco for Chevron U.S.A. Inc. *N0210*

NAME (PLEASE PRINT) <i>James L. Death</i>	TITLE <i>Vice President Land</i>
SIGNATURE <i>James L. Death</i>	DATE <i>8/16/04</i>

(This space for State use only)

APPROVED *9/30/2004*

Earlene Russell

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000)

(See Instructions on Reverse Side)

RECEIVED

SEP 28 2004

DIV. OF OIL, GAS & MINING

API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	Twn-Rng
43-015-30242-00-00	L M LEMMON 10-1	Gas Well	EMERY	SESE	10	17S-8E
43-015-30243-00-00	FEDERAL B21-3	Gas Well	EMERY	NESW	21	19S-7E
43-015-30244-00-00	FEDERAL A26-2	Gas Well	EMERY	SESW	26	18S-7E
43-015-30245-00-00	FEDERAL C23-8	Gas Well	EMERY	NENW	23	18S-7E
43-015-30246-00-00	FEDERAL A26-4	Gas Well	EMERY	SWSE	26	18S-7E
43-015-30247-00-00	FEDERAL A35-6	Gas Well	EMERY	NWNW	35	18S-7E
43-015-30248-00-00	FEDERAL A35-5	Gas Well	EMERY	NWNE	35	18S-7E
43-015-30249-00-00	FEDERAL A34-7	Gas Well	EMERY	NENE	34	18S-7E
43-015-30258-00-00	UTAH FED P 10-47	Gas Well	EMERY	NWNW	10	18S-7E
43-015-30259-00-00	A L JENSEN 27-9	Gas Well	EMERY	SESE	27	21S-6E
43-015-30268-00-00	ST OF UT T 36-10	Gas Well	EMERY	SWNE	36	16S-7E
43-015-30270-00-00	ST OF UT U 2-11	Gas Well	EMERY	NWNW	2	18S-7E
43-015-30272-00-00	SWD 1	Water Disposal Well	EMERY	SWNW	24	18S-7E
43-015-30274-00-00	UTAH FED S 8-46	Gas Well	EMERY	SESW	8	18S-7E
43-015-30275-00-00	UTAH FED R 9-45	Gas Well	EMERY	NWNE	9	18S-7E
43-015-30276-00-00	UTAH FED P 10-42	Gas Well	EMERY	NWNE	10	18S-7E
43-015-30277-00-00	UTAH FED P 10-43	Gas Well	EMERY	NWSE	10	18S-7E
43-015-30280-00-00	UTAH FED Q 4-44	Gas Well	EMERY	SESE	4	18S-7E
43-015-30282-00-00	UTAH FED D 34-12	Gas Well	EMERY	SESE	34	17S-7E
43-015-30285-00-00	UTAH FED D 35-13	Gas Well	EMERY	SWSW	35	17S-7E
43-015-30286-00-00	UTAH FED D 35-14	Gas Well	EMERY	NWNW	35	17S-7E
43-015-30287-00-00	UTAH FED D 35-15	Gas Well	EMERY	SWSE	35	17S-7E
43-015-30292-00-00	UTAH FED M 6-25	Gas Well	EMERY	SENE	6	17S-8E
43-015-30294-00-00	UTAH FED H 6-21	Gas Well	EMERY	SESW	6	20S-7E
43-015-30303-00-00	SWD 3	Water Disposal Well	EMERY	SENE	11	18S-7E
43-015-30306-00-00	ST OF UT U 2-48	Gas Well	EMERY	NWNE	2	18S-7E
43-015-30308-00-00	ST OF UT U 2-50	Gas Well	EMERY	NESW	2	18S-7E
43-015-30309-00-00	ST OF UT U 2-49	Gas Well	EMERY	NWSE	2	18S-7E
43-015-30310-00-00	L & M CURTIS 10-58	Gas Well	EMERY	SWSW	10	18S-7E
43-015-30311-00-00	ST OF UT X 16-66	Gas Well	EMERY	SENE	16	18S-7E
43-015-30312-00-00	ST OF UT X 16-65	Gas Well	EMERY	NWNE	16	18S-7E
43-015-30313-00-00	U P & L 14-53	Gas Well	EMERY	SESE	14	18S-7E
43-015-30314-00-00	U P & L 14-55	Gas Well	EMERY	NWNW	14	18S-7E
43-015-30315-00-00	U P & L 23-51	Gas Well	EMERY	SENE	23	18S-7E
43-015-30316-00-00	U P & L 24-57	Gas Well	EMERY	NWNW	24	18S-7E
43-015-30318-00-00	D & A JONES 15-68	Gas Well	EMERY	NENW	15	18S-7E
43-015-30319-00-00	D&D CURTIS 14-54	Gas Well	EMERY	SENE	14	18S-7E
43-015-30320-00-00	P & K PEACOCK 8-62	Gas Well	EMERY	SWNE	8	18S-7E
43-015-30321-00-00	PEACOCK TRUST 9-60	Gas Well	EMERY	NWSW	9	18S-7E
43-015-30323-00-00	SWD 2	Water Disposal Well	EMERY	NWNW	14	18S-7E
43-015-30324-00-00	R G NORRIS 14-40	Gas Well	EMERY	NESW	14	18S-7E
43-015-30325-00-00	L & M CURTIS 15-67	Gas Well	EMERY	NENE	15	18S-7E
43-015-30326-00-00	PEACOCK TRUST 8-61	Gas Well	EMERY	NESE	8	18S-7E
43-015-30327-00-00	PEACOCK 7-64	Gas Well	EMERY	NENE	7	18S-7E
43-015-30328-00-00	PEACOCK TRUST 8-63	Gas Well	EMERY	SENE	8	18S-7E
43-015-30329-00-00	D & A JONES 9-59	Gas Well	EMERY	SESE	9	18S-7E
43-015-30381-00-00	UTAH STATE 1-76	Gas Well	EMERY	NWNW	1	18S-7E
43-015-30382-00-00	UTAH STATE 36-78	Gas Well	EMERY	SWSW	36	17S-7E
43-015-30383-00-00	USA 3-74	Gas Well	EMERY	SESE	3	18S-7E
43-015-30384-00-00	USA 3-75	Gas Well	EMERY	NENE	3	18S-7E
43-015-30385-00-00	USA 11-70	Gas Well	EMERY	SWSE	11	18S-7E
43-015-30386-00-00	USA 11-71	Gas Well	EMERY	SWNE	11	18S-7E
43-015-30387-00-00	USA 11-72	Gas Well	EMERY	NWNW	11	18S-7E
43-015-30388-00-00	USA 11-73	Gas Well	EMERY	NWSW	11	18S-7E
43-015-30389-00-00	USA 34-80	Gas Well	EMERY	SENE	34	17S-7E
43-015-30390-00-00	USA 34-82	Gas Well	EMERY	SESW	34	17S-7E
43-015-30393-00-00	ST OF UT EE 06-138	Gas Well	EMERY	NENW	6	17S-9E
43-015-30396-00-00	ST OF UT AA 07-106	Gas Well	EMERY	NWNE	7	17S-8E
43-015-30437-00-00	ST OF UT BB 09-119	Gas Well	EMERY	SESW	9	17S-8E
43-015-30438-00-00	ST OF UT CC 10-124	Gas Well	EMERY	SENE	10	17S-8E
43-015-30439-00-00	ST OF UT DD 31-98	Gas Well	EMERY	NWSW	31	17S-8E
43-015-30440-00-00	FEDERAL T 27-85	Gas Well	EMERY	SENE	27	18S-7E
43-015-30441-00-00	UP&L 06-102	Gas Well	EMERY	NENW	6	17S-8E
43-015-30442-00-00	UP&L 06-104	Gas Well	EMERY	NESE	6	17S-8E
43-015-30443-00-00	WM S IVIE ET AL 09-118	Gas Well	EMERY	SWNE	9	17S-8E

API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	Twn-Rng
43-015-30444-00-00	ST OF UT BB 09-120	Gas Well	EMERY	NESE	9	17S-8E
43-015-30445-00-00	FEDERAL A 26-88	Gas Well	EMERY	SWNW	26	18S-7E
43-015-30446-00-00	FEDERAL A 35-89	Gas Well	EMERY	NWSW	35	18S-7E
43-015-30447-00-00	FEDERAL C 23-84	Gas Well	EMERY	NESW	23	18S-7E
43-015-30448-00-00	FEDERAL P 3-92	Gas Well	EMERY	SESW	3	18S-7E
43-015-30449-00-00	FEDERAL P 3-93	Gas Well	EMERY	SWNW	3	18S-7E
43-015-30450-00-00	FEDERAL T 21-94	Gas Well	EMERY	NENE	21	18S-7E
43-015-30451-00-00	FEDERAL T 22-69	Gas Well	EMERY	NENE	22	18S-7E
43-015-30452-00-00	FEDERAL T 22-83	Gas Well	EMERY	SWSE	22	18S-7E
43-015-30453-00-00	FEDERAL T 22-91	Gas Well	EMERY	NENW	22	18S-7E
43-015-30454-00-00	ST OF UT CC 10-123	Gas Well	EMERY	NWNW	10	17S-8E
43-015-30455-00-00	FEDERAL T 27-86	Gas Well	EMERY	SENE	27	18S-7E
43-015-30456-00-00	FEDERAL T 27-87	Gas Well	EMERY	SESE	27	18S-7E
43-015-30457-00-00	FEDERAL T 27-90	Gas Well	EMERY	NWSW	27	18S-7E
43-015-30458-00-00	ST OF UT FF 10-125	Gas Well	EMERY	NESW	10	17S-8E
43-015-30459-00-00	ST OF UT FF 11-129	Gas Well	EMERY	NWNW	11	17S-8E
43-015-30462-00-00	ST OF UT FF 11-130	Gas Well	EMERY	NWSW	11	17S-8E
43-015-30478-00-00	GARDNER TRUST ET AL 16-121	Gas Well	EMERY	NENE	16	17S-8E
43-015-30479-00-00	ST OF UT BB 05-107	Gas Well	EMERY	SENW	5	17S-8E
43-015-30480-00-00	ST OF UT BB 05-108	Gas Well	EMERY	NWSW	5	17S-8E
43-015-30481-00-00	ST OF UT BB 05-109	Gas Well	EMERY	SENE	5	17S-8E
43-015-30482-00-00	ST OF UT BB 05-110	Gas Well	EMERY	SWSE	5	17S-8E
43-015-30483-00-00	UP&L 06-103	Gas Well	EMERY	NESW	6	17S-8E
43-015-30484-00-00	AMERICA WEST GROUP ET AL 15-126	Gas Well	EMERY	NENW	15	17S-8E
43-015-30485-00-00	W H LEONARD ET AL 15-127	Gas Well	EMERY	NENE	15	17S-8E
43-015-30486-00-00	ROWLEY 08-111	Gas Well	EMERY	SENW	8	17S-8E
43-015-30490-00-00	SWD 4	Water Disposal Well	EMERY	SENE	15	17S-8E
43-015-30495-00-00	SEELEY 08-112	Gas Well	EMERY	NENE	8	17S-8E
43-015-30496-00-00	ST OF UT BB 08-113	Gas Well	EMERY	NWSE	8	17S-8E
43-015-30497-00-00	ST OF UT AA 07-105	Gas Well	EMERY	SWNW	7	17S-8E
43-015-30498-00-00	ST OF UT 01-97	Gas Well	EMERY	SENE	1	18S-7E
43-015-30499-00-00	ST OF UT GG 03-122	Gas Well	EMERY	SWSW	3	17S-8E
43-015-30500-00-00	ST OF UT HH 03-133	Gas Well	EMERY	SWSE	3	17S-8E
43-015-30501-00-00	SEELEY FARMS 09-117	Gas Well	EMERY	NWNW	9	17S-8E
43-015-30502-00-00	ST OF UT GG 15-128	Gas Well	EMERY	NWSW	15	17S-8E
43-015-30503-00-00	ST OF UT BB 04-116	Gas Well	EMERY	SWSE	4	17S-8E
43-015-30504-00-00	ST OF UT GG 04-115	Gas Well	EMERY	NESW	4	17S-8E
43-015-30505-00-00	BURNSIDE 14-132	Gas Well	EMERY	NWNE	14	17S-8E
43-015-30506-00-00	ST OF UT T 36-100	Gas Well	EMERY	NESE	36	16S-7E
43-015-30507-00-00	UT FED KK 01-140	Gas Well	EMERY	SENW	1	17S-7E
43-015-30508-00-00	ST OF UT II 36-96	Gas Well	EMERY	NWSE	36	17S-7E
43-015-30509-00-00	ST OF UT II 36-95	Gas Well	EMERY	NWNE	36	17S-7E
43-015-30510-00-00	SWD 5	Water Disposal Well	EMERY	SESE	23	17S-8E
43-015-30511-00-00	UP&L FED 01-101	Gas Well	EMERY	SENE	1	17S-7E
43-015-30520-00-00	ST OF UT SS 22-165	Gas Well	EMERY	NENE	22	17S-8E
43-015-30521-00-00	ZIONS FED 35-135R (RIG SKID)	Gas Well	EMERY	NESW	35	16S-7E
43-015-30528-00-00	ST OF UT 14-170	Gas Well	EMERY	SWSE	14	17S-8E
43-015-30529-00-00	CONOVER 14-171	Gas Well	EMERY	NWSW	14	17S-8E
43-015-30530-00-00	ST OF UT 36-139	Gas Well	EMERY	NWSW	36	16S-7E
43-015-30533-00-00	ST OF UT FO 02-186	Gas Well	EMERY	NENW	2	17S-8E
43-015-30549-00-00	ST OF UT JJ 03-160	Gas Well	EMERY	NWNW	3	17S-8E
43-015-30550-00-00	ST OF UT 36-138	Gas Well	EMERY	SWNW	36	16S-7E
43-015-30551-00-00	UT FED P 12-153	Gas Well	EMERY	NWNW	12	18S-7E
43-015-30552-00-00	ST OF UT CC 03-161	Gas Well	EMERY	SENE	3	17S-8E
43-015-30553-00-00	ST OF UT FO 02-188	Gas Well	EMERY	NWSW	2	17S-8E
43-015-30554-00-00	ST OF UT BB 04-158	Gas Well	EMERY	NENW	4	17S-8E
43-015-30555-00-00	ST OF UT BB 04-159	Gas Well	EMERY	SWNE	4	17S-8E
43-015-30556-00-00	MALONE 14-131	Gas Well	EMERY	SWNW	14	17S-8E
43-015-30559-00-00	UT FED KK 01-141	Gas Well	EMERY	SESE	1	17S-7E
43-015-30560-00-00	ST OF UT FO 02-189	Gas Well	EMERY	SWNE	2	17S-8E
43-015-30561-00-00	ST OF UT GG 15-184	Gas Well	EMERY	NWSE	15	17S-8E
43-015-30562-00-00	STATE OF UTAH "LL" 31-20	Gas Well	EMERY	NWNW	31	17S-8E
43-015-30566-00-00	ST OF UT "KK" 32-145	Gas Well	EMERY	NESE	32	16S-8E
43-015-30567-00-00	ST OF UT "KK" 32-144	Gas Well	EMERY	SWSW	32	16S-8E
43-015-30568-00-00	ST OF UT "AA" 18-153	Gas Well	EMERY	SESW	18	17S-8E

API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	TwN-Rng
43-015-30569-00-00	ST OF UT "AA" 07-146	Gas Well	EMERY	NESW	7	17S-8E
43-015-30570-00-00	ST OF UT "AA" 18-154	Gas Well	EMERY	NESE	18	17S-8E
43-015-30571-00-00	ST OF UT "AA" 17-156	Gas Well	EMERY	SWSE	17	17S-8E
43-015-30572-00-00	ST OF UT "AA" 18-149	Gas Well	EMERY	SENW	18	17S-8E
43-015-30573-00-00	ST OF UT "MM" 20-192	Gas Well	EMERY	SENW	20	17S-8E
43-015-30574-00-00	ST OF UT "MM" 20-193	Gas Well	EMERY	NENE	20	17S-8E
43-015-30575-00-00	ST OF UT MM 20-194	Gas Well	EMERY	NWSW	20	17S-8E
43-015-30576-00-00	ST OF UT AA 07-147	Gas Well	EMERY	SESE	7	17S-8E
43-015-30577-00-00	ST OF UT BB 08-148	Gas Well	EMERY	NWSW	8	17S-8E
43-015-30578-00-00	ST OF UT AA 18-150	Gas Well	EMERY	NWNE	18	17S-8E
43-015-30579-00-00	ST OF UT NN 19-157	Gas Well	EMERY	NENE	19	17S-8E
43-015-30580-00-00	ST OF UT AA 17-152	Gas Well	EMERY	NENE	17	17S-8E
43-015-30581-00-00	ST OF UT OO 16-190	Gas Well	EMERY	NESW	16	17S-8E
43-015-30582-00-00	ST OF UT PP 16-191	Gas Well	EMERY	NESE	16	17S-8E
43-015-30583-00-00	ST OF UT AA 17-151	Gas Well	EMERY	NENW	17	17S-8E
43-015-30585-00-00	ST OF UT MM 21-195	Gas Well	EMERY	NENW	21	17S-8E
43-015-30586-00-00	ST OF UT GG 21-163	Gas Well	EMERY	NENE	21	17S-8E
43-015-30587-00-00	ZIONS FED 35-137	Gas Well	EMERY	NESE	35	16S-7E
43-015-30589-00-00	UTAH FED 01-205D	Gas Well	EMERY	SENW	1	17S-7E
43-015-30590-00-00	ZIONS FED 02-134	Gas Well	EMERY	NWNW	2	17S-7E
43-015-30591-00-00	UTAH FED 12-197	Gas Well	EMERY	SENE	12	17S-7E
43-015-30592-00-00	ST OF UT QQ 31-201	Gas Well	EMERY	SESW	31	16S-8E
43-015-30593-00-00	ST OF UT AA 17-155	Gas Well	EMERY	SWSW	17	17S-8E
43-015-30601-00-00	UTAH FED 12-199	Gas Well	EMERY	NESE	12	17S-7E
43-015-30602-00-00	UTAH FED 35-196	Gas Well	EMERY	NENW	35	16S-7E
43-015-30603-00-00	UTAH FED 35-136	Gas Well	EMERY	SWNE	35	16S-7E
43-015-30604-00-00	UT FED 12-200D	Gas Well	EMERY	NESE	12	17S-7E
43-015-30605-00-00	UT FED 12-198D	Gas Well	EMERY	SENE	12	17S-7E
43-015-30606-00-00	ST OF UT QQ 31-204D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30607-00-00	ST OF UT QQ 31-203D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30608-00-00	ST OF UT QQ 31-202D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30609-00-00	ST OF UT HH 23-166	Gas Well	EMERY	NENW	23	17S-8E

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

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: **8/1/2004**

FROM: (Old Operator): N0210-Chevron USA, Inc 11111 S Wilcrest Houston, TX 77099 Phone: 1-(281) 561-4991	TO: (New Operator): N2615-XTO Energy Inc 2700 Farmington Ave, Bldg K Suite 1 Farmington, NM 87401 Phone: 1-(505) 324-1090
--	---

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ST OF UT T 36-10	36	160S	070E	4301530268	11866	State	GW	P
SWD 4	15	170S	080E	4301530490	13366	Fee	WD	A
SWD 5	23	170S	080E	4301530510	13403	Fee	WD	A
ST OF UT U 2-11	02	180S	070E	4301530270	11865	State	GW	P
ST OF UT U 2-48	02	180S	070E	4301530306	12145	State	GW	P
ST OF UT U 2-50	02	180S	070E	4301530308	12147	State	GW	P
PEACOCK 7-64	07	180S	070E	4301530327	12199	Fee	GW	P
P & K PEACOCK 8-62	08	180S	070E	4301530320	12238	Fee	GW	P
PEACOCK TRUST 8-61	08	180S	070E	4301530326	12209	Fee	GW	P
PEACOCK TRUST 8-63	08	180S	070E	4301530328	12205	Fee	GW	P
PEACOCK TRUST 9-60	09	180S	070E	4301530321	12206	Fee	GW	P
D & A JONES 9-59	09	180S	070E	4301530329	12202	Fee	GW	S
UP & L 14-55	14	180S	070E	4301530314	12148	Fee	GW	P
D&D CURTIS 14-54	14	180S	070E	4301530319	12346	Fee	GW	S
SWD 2	14	180S	070E	4301530323	12279	Fee	WD	A
R G NORRIS 14-40	14	180S	070E	4301530324	12334	Fee	GW	P
D & A JONES 15-68	15	180S	070E	4301530318	12200	Fee	GW	S
L & M CURTIS 15-67	15	180S	070E	4301530325	12278	Fee	GW	P
UP & L 23-51	23	180S	070E	4301530315	12208	Fee	GW	P
UP & L 24-57	24	180S	070E	4301530316	12207	Fee	GW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/28/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/28/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/19/2004
- Is the new operator registered in the State of Utah: YES Business Number: 5655506-0143
- If **NO**, the operator was contacted on:
- 6a. (R649-9-2)Waste Management Plan has been received on: to follow
- 6b. Inspections of LA PA state/fee well sites complete on: being worked

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: n/a

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: 9/28/2004

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 9/30/2004
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/30/2004
3. Bond information entered in RBDMS on: 9/30/2004
4. Fee/State wells attached to bond in RBDMS on: 9/30/2004
5. Injection Projects to new operator in RBDMS on: 9/30/2004
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 9/28/2004

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 579173

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 104312762
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 10/5/2004

COMMENTS:

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File SWD 4

Suspense
(Return Date) _____
(To-Initials) _____

Other
SWD 4
Emergency Pit File

(Loc.) Sec 15 Twp 17S Rng. 8E
(API No.) 43-015-30490

1. Date of Phone Call: 2/10/05 Time: 12:00

2. DOGM Employee (name) Lisha Cordova (Initiated Call)
Talked to:

Name Jean Hubert (Initiated Call) - Phone No. (435) 636-3630 / Realty
of (Company/Organization) Price / Blm

3. Topic of Conversation: Surface flow bond for above well?
Private minerals, Fed. Surface (DOGSM records).

4. Highlights of Conversation: _____
Blm records have conflicting info. on surface ownership,
appears to be involved in a "land swap".

Emery County Recorder - Doris (435) 381-2414
Surface deed recorded 4/29/02, filed 5/15/01, to
Texaco E&P. (Private Surface)

* DOGM records updated accordingly, originally
permitted as Fed Surface - why it changed to Fed.?

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.

1. TYPE OF WELL: OIL WELL [] GAS WELL [] OTHER SWD #4
2. NAME OF OPERATOR: XTO Energy, Inc
3. ADDRESS OF OPERATOR: 1095 N. SR 57 POB 618 CITY Orangeville STATE UT ZIP 84078 PHONE NUMBER: (435) 748-5395
8. WELL NAME and NUMBER: SWD # 4
9. API NUMBER: 4301530490

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1557 FNL 0692 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 15 17S 8E
COUNTY: Emery County
STATE: UTAH

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

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, and various actions like ACIDIZE, DEEPEN, REPERFORATE CURRENT FORMATION, etc.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
It has been determined that we will no longer use the pit at SWD #4. We will be using 2-500 bbl tanks in place of the pit. We will be removing the liner and disposing of it at an approved facility and sampling the soil beneath the pit. We will the fill the pit, but will not re-seed the location because we plan to use it in the future.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 06-08-10
By: [Signature]

COPY SENT TO OPERATOR
Date: 6/10/2010
Initials: KS

NAME (PLEASE PRINT) Misty Jorgensen TITLE Environmental Specialist
SIGNATURE [Signature] DATE 6/7/2010

(This space for State use only)

RECEIVED
JUN 08 2010
DIV. OF OIL, GAS & MINING

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: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME: HUNTINGTON CBM
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: SWD 4
2. NAME OF OPERATOR: XTO ENERGY INC	9. API NUMBER: 43015304900000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 87410	PHONE NUMBER: 505 333-3159 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1557 FNL 0692 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 15 Township: 17.0S Range: 08.0E Meridian: S	9. FIELD and POOL or WILDCAT: BUZZARD BENCH
	COUNTY: EMERY
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/22/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="PIT CLOSURE"/>

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

XTO Energy Inc. has closed the pit @ SWD #4 per the following: 8/10/2010: MI, install two 500 bbl tks for over flow lines, suspend report until further activity. 8/26/2010: MIRU Nielson Const. Service. Liner was disposed of at the ECDC disposal; soil samples were taken, all samples met state requirements. Suspend report pending further activity. 9/22/2010: Pit closed. RDMO Nielson Construction.

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

NAME (PLEASE PRINT) Barbara Nicol	PHONE NUMBER 505 333-3642	TITLE Regulatory Compliance Tech
SIGNATURE N/A	DATE 2/9/2011	



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 25, 2013

XTO Energy Inc
382 CR 3100
Aztec, NM 87410

17S 8E 15

SUBJECT: Pressure Test for Mechanical Integrity, SWD 3 (API# 43-015-30303) and SWD 4 (API# 43-015-30490) Wells, Emery County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following wells require a current test:

SWD 3	43-015-30303
SWD 4	43-015-30490

Please make arrangements and ready wells for testing during the week of April 1st, 2013, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.



Page 2
February 25, 2013
XTO Energy Inc

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

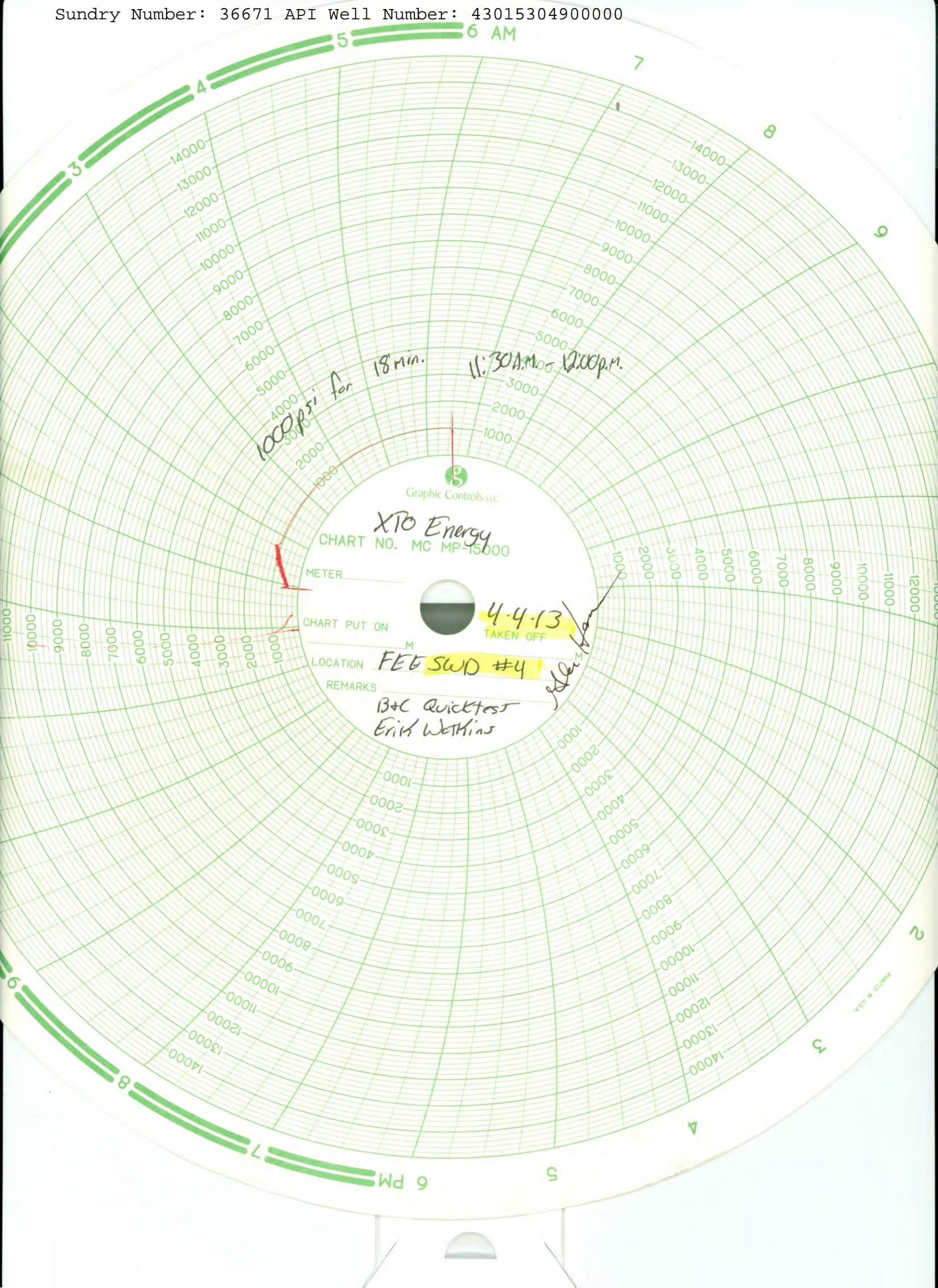


Bart Kettle
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager
Well File

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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: HUNTINGTON CBM
1. TYPE OF WELL Water Disposal Well		8. WELL NAME and NUMBER: SWD 4
2. NAME OF OPERATOR: XTO ENERGY INC		9. API NUMBER: 43015304900000
3. ADDRESS OF OPERATOR: PO Box 6501 , Englewood, CO, 80155	PHONE NUMBER: 303 397-3727 Ext	9. FIELD and POOL or WILDCAT: BUZZARD BENCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1557 FNL 0692 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 15 Township: 17.0S Range: 08.0E Meridian: S		COUNTY: EMERY
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/4/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>In response to your letter dated 2/25/2013, and maintaining compliance with Rule R649-5-5.3 of the Oil and Gas Conservation General Rules, XTO conducted a MIT on this well 4/4/2013 per the following: MIRU B & C Quik Test. NU to csg. PT line to 1,500 psig, gd tst. Pmp 2 gal TFW w/adds. PT csg to 1,000 psig (30") gd tst. Bleed off pressure. ND fr csg. SITP 0 psig. SICP 0 psig. RDMO B & C Quik Test. Please see the attached MIT chart.</p>		<p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>May 02, 2013</p>
NAME (PLEASE PRINT) Barbara Nicol	PHONE NUMBER 303-397-3736	TITLE Regulatory Compliance Tech
SIGNATURE N/A		DATE 4/11/2013



Graphic Controls LLC

XTO Energy

CHART NO. MC MP-15000

METER

CHART PUT ON

4-4-13

TAKEN OFF

LOCATION

FEE SWD #4

REMARKS

B+C Quicktest
Erik Watkins

1000psi for 18 min.
11:30 AM to 12:00 PM