

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB REPORT/abd \_\_\_\_\_

731208 Oper. by Exxon to Union Pacific eff. 12-8-93:  
 Commenced Injection 2-23-94

\* Chg BHL per WCR recorded 11-17-88

DATE FILED **2/11/88**  
 LAND, FEE & PATENTED  STATE LEASE NO \_\_\_\_\_ PUBLIC LEASE NO \_\_\_\_\_ INDIAN \_\_\_\_\_

DRILLING APPROVED **2/24/88 (Exception Location)**

SPUDDED IN **3/11/88**

COMPLETED **6/3/88 TA** PUT TO PRODUCING \_\_\_\_\_

INITIAL PRODUCTION \_\_\_\_\_

GRAVITY API \_\_\_\_\_

GOR \_\_\_\_\_

PRODUCING ZONES **NONE**

TOTAL DEPTH **11097**

WELL ELEVATION **6756**

DATE ABANDONED \_\_\_\_\_

FIELD **UNDESIGNATED**

UNIT \_\_\_\_\_

COUNTY **SUMMIT**

WELL NO **U.P.R.C. #1** API #43-043-30290

LOCATION (Surf.) **2335' FNL** FROM (N) (S) LINE. **2052' FWL** FT FROM (E) (W) LINE **SENW** 1 4 - 1.4 SEC **17**

(BHL) **2100' FSL** **0590 FWL** **2500' FSL**

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
<b>2N</b>	<b>7E</b>	<b>17</b>	<b>Union Pacific Resources Co. EXXON CORPORATION</b>				

2N

7E

17

Union Pacific Resources Co.  
 EXXON CORPORATION

## GEOLOGIC TOPS:

QUATERNARY	<del>Star Point</del> Purs 6910	Chinle	Molas
Alluvium	<del>Wetwood</del> Purs 1 8813	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaita Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
BEAR. R 37216	Dakota	Park City	McCracken
Relin 4230	Burro Canyon	Rico (Goodridge)	Aneth
Stamp 6317	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBON I FEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

**EXXON** COMPANY, U.S.A.  
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

**RECORDED**  
FEB 11 1988

DIVISION OF  
OIL, GAS & MINING

PRODUCTION DEPARTMENT  
SOUTHWESTERN DIVISION

February 10, 1988

U.P.R.C. #1  
(SENE) Sec. 17, T2N, R7E Surface  
(NWSE) Sec. 17, T2N, R7E BHL  
Summit County, Utah

Mr. John R. Baza  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attached is an application for permit to drill and a plat for the U.P.R.C. #1 well with a surface location of 2335' FNL and 2052' FWL and an anticipated bottomhole location of approximately 2100' FSL and 2500' FEL of Sec. 17, T2N, R7E, Summit County, Utah. Please note that the original U.P.R.C. #1 location in the (NWSE) of Sec. 17 has been changed to the U.P.R.C. #3 and that this well will be numbered the U.P.R.C. #1.

The proposed bottomhole location is not in the center of the quarter quarter section due to geological reasons. We, therefore, request an exception to Statewide Spacing Rule No. 302. Exxon operates all offset acreage within a 460' radius of the wellbore.

The well will not be directionally drilled, but will be allowed to drift without control to the anticipated bottomhole location. Directional surveys indicating the actual bottomhole location will be submitted with completion reports.

If you have any questions concerning this application, please contact James Cunningham at the letterhead address, or call 915-686-4405.

  
For Charlotte Harper  
Permits Supervisor

CHH:cjf  
Attachments

RECEIVED  
FEB 11 1988

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

DIVISION OF  
OIL, GAS & MINING

5. Lease Designation and Serial No. \_\_\_\_\_  
**Fee** \_\_\_\_\_  
 6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit Agreement Name \_\_\_\_\_  
 8. Farm or Lease Name  
**U.P.R.C.**  
 9. Well No. \_\_\_\_\_  
**1**  
 10. Field and Pool, or Wildcat  
**Undesignated**  
 11. Sec., T., R., M., or Blk. and Survey or Area  
**Sec. 17, T2N, R7E**  
 12. County or Parrish 13. State  
**Summit Utah**  
 16. No. of acres in lease \_\_\_\_\_  
**3240**  
 17. No. of acres assigned to this well \_\_\_\_\_  
**40**  
 18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. \_\_\_\_\_  
**11,000'**  
 19. Proposed depth \_\_\_\_\_  
**11,000'**  
 20. Rotary or cable tools  
**Rotary**  
 21. Elevations (Show whether DF, RT, GR, etc.) \_\_\_\_\_  
**GR-6756.5 ungraded**  
 22. Approx. date work will start\*  
**April 1, 1988**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
**DRILL**       **DEEPEN**       **PLUG BACK**

b. Type of Well:  
Oil Well       Gas Well       Other \_\_\_\_\_  
Single Zone       Multiple Zone

2. Name of Operator  
**Exxon Corp.      Attn: Permits Supervisor**

3. Address of Operator  
**P. O. Box 1600, Midland, TX 79702**

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
**At surface**  
**2335' FNL and 2052' FWL of Sec. 17, (SENW)**

*BHL* **At proposed prod. zone**  
**Approx. 2100' FSL and 2500' FEL of Sec. 17, (NWSE)**

14. Distance in miles and direction from nearest town or post office\*  
**11 miles East from Coalville**

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)  
**2335' Surface**  
**3300' BHL**

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
**1100' Surface**  
**1320' BHL**

21. Elevations (Show whether DF, RT, GR, etc.)  
**GR-6756.5 ungraded**

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26	16	Line Pipe	80	55 ft. <sup>3</sup>
12 1/4	9 5/8	40	1,500	470 ft. <sup>3</sup>
8 3/4	7	26, 35	11,000	375 ft. <sup>3</sup>

**Surface Owner:** Bow Valley Development Corp.  
1725 North 200 West, Suite 2C  
Provo, Utah 84604  
Steven Stewart ph. no. 801-377-6700

Exxon Corp. contact for additional information - James Cunningham ph. no. 915-686-4405.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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. *for* Charlotte Harper  
Signed: *Jane M. Coughlin* Title: **Permits Supervisor** Date: **2-10-88**

(This space for Federal or State office use)

Permit No. **43 043-30290** Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any: \_\_\_\_\_

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: **2-24-88**  
BY: *John R. Boy*

\*See Instructions On Reverse Side

WELL SPACING **R615-3-3**

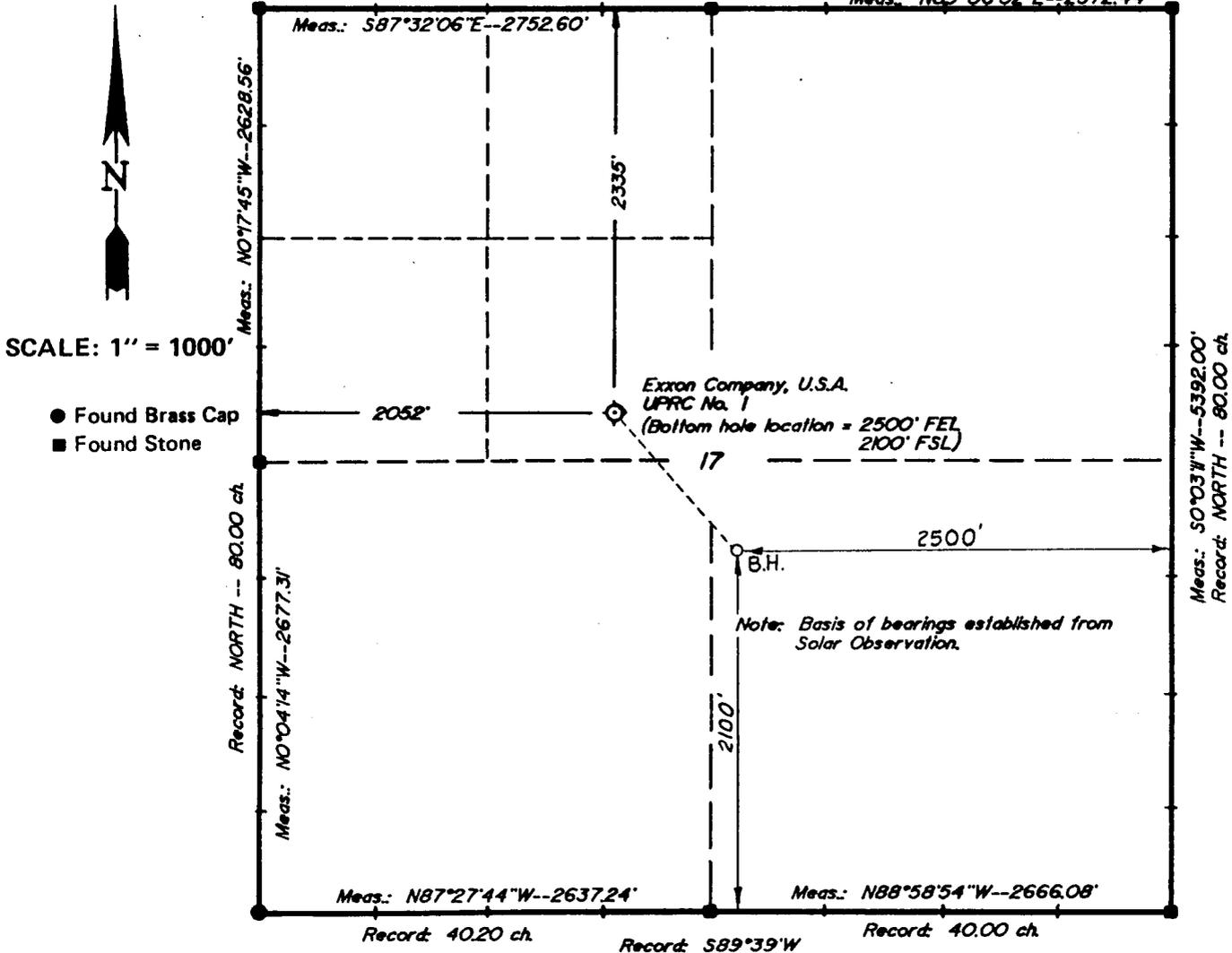
# WILLIAM H. SMITH & ASSOCIATES P.C.

## SURVEYING CONSULTANTS

POST OFFICE BOX 820  
GREEN RIVER, WYOMING 82935

T 2 N R 7 E  
Record: S89°26'W -- 80.17 ch.

550 EAST 2 NORTH  
PHONE 307-875-3638



I, John I. Dolinar of Green River, Wyoming hereby certify that in accordance with a request from Dolph Genn of Midland, Texas for Exxon Company, U.S.A. made a survey on the 8th day of February 19 88 for location and elevation of the UPRC No. 1

As shown on the above map, the wellsite is in the SE/4 of the NW/4 of Section 17, Township 2 North, Range 7 East of the Sett Lake Base 8 Meridian, Summit County, State of Utah. Elevation is 6756.5, unrecorded ground. Datum established from spot elevation 7026 located on the West line of Section 18, T2N R7E as shown on the USGS 7 1/2" topo "Utah Utah".

Reference Point	300'	NORTH	set a #5 rebar	Elevation top of rebar = 6879.3
Reference Point	300'	EAST	set a #5 rebar	Elevation top of rebar = 6760.3
Reference Point	300'	WEST	located in construction area	N/A
Reference Point	350'	SOUTH	set a #5 rebar	Elevation top of rebar = 6688.7

Job No. 88004.000  
Date: 2/19/88  
Drawn by: WWR

REGISTERED  
WYOMING UTAH IDAHO  
NEVADA NEW MEXICO ARIZONA  
COLORADO

W-A-10081

*John I. Dolinar*  
UTAH R. NO. 5909

No. 5909  
JOHN I.  
DOLINAR

Exxon Corporation  
 UPRC #1  
 Surface: 2335' FNL and 2052' FWL  
 Section 17, T2N, R7E  
 Bottom Hole: 2100' FSL, 2500' FEL  
 Section 17, T2N, R7E  
 Summit County, Utah  
 Drilling Plan

1. Geologic markers:

The estimated tops of important geologic markers:

Tertiary	Surface
Frontier	1,500'
Aspen	3,400'
Kelvin	4,300'
Stump	6,700'
Preuss	7,200'
Twin Creek	9,200'
Nugget	10,600'

2. The estimated depths at which the top and the bottom of anticipated oil, water, gas or other mineral bearing formations are expected to be encountered:

	<u>Top</u>	<u>Bottom</u>	<u>How Protected</u>
Fresh Water	0'	1,500'	Surface casing - cemented to surface
Oil	9,200'	11,000'	Production casing - cemented above 9,200'

3. Minimum specifications for pressure control equipment:

A. Casing Head Equipment:

"A" Section	9-5/8" LTC x 11" - 3000 - sweet
Tubinghead	11" - 3000 x 7-1/16" - 5000 - sweet
Tubinghead Adaptor	7-1/16" - 5000 x 2-9/16" - 5000 - sweet
Tree	2-9/16" - 5000 - sweet

B. Blowout Preventer Equipment:

<u>Type</u>	<u>Pressure Rating</u>	<u>Installed on Casing</u>
Type A1 Diverter System	150 psi	16"
Type RSRA BOP Stack	5000 psi	9-5/8"

Additional preventers may be added and/or preventers with higher pressure ratings may be substituted, depending on equipment provided by drilling contractor. Schematic diagram of preventer type is attached.

C. Testing:

Operational Testing: An operational test consisting of closing the annular preventer and pipe rams on the drill pipe and closing the blind rams on open hole will be performed on each round trip but not more than once each day.

**Pressure Testing:** An initial pressure test will be performed after nipping up on a casing string but prior to drilling out. Equipment will be tested to 300 psi and 100% of the pressure rating on installation.

Subsequent pressure tests will be conducted:

- o Upon any change in rams or other component of the BOP stack and/or choke manifold.
- o At least every thirty (30) days.

Subsequent pressure tests will be at 300 psi and the lesser of 50% of the manufacturer's rated pressure of the BOPE, the maximum anticipated pressure to be contained at the surface, 1 psi/ft of the last casing string depth, or 70% of the minimum internal yield pressure of any casing subject to test.

**Blowout Prevention Drills:** A drilling crew proficiency test to perform the well shut-in procedure will be performed at least once each week with each crew.

D. BOP Control Unit:

Unit will be hydraulically operated and have one control station located at least 60' from wellbore and one located on the rig floor.

4. Auxiliary Equipment and Proposed Casing Program:

A. Auxiliary Equipment:

1. Kelly Cocks: Upper and lower installed on kelly.
2. Safety Valve: Full opening ball type valve to fit each type and size of drill pipe in use will be available on the rig floor in the open position at all times for use when the kelly is not connected to the drill string.

B. Casing:

<u>String</u>	<u>Size/Weight/Grade/Conn</u>	<u>Depth Interval</u>
Conductor	16"/line pipe	0 - 80'
Surface	9-5/8"/40#/K55/LTC	0 - 1,500'
Production	7"/26#/N80/LTC	0 - 4,500'
	7"/26#/K55/LTC	4,500' - 6,550'
	7"/26#/N80/LTC	6,550' - 8,650'
	7"/35#/P110/LTC	8,650' - 9,650'
	7"/35#/N80/LTC	9,650' - 11,000'

C. Cement:

<u>Casing</u>	<u>Depth</u>	<u>Cement Type</u>	<u>Approximate Cement Volume</u>	<u>Top of Cement (Gauge hole)</u>
13-3/8"	80'	Readi-Mix	55 ft <sup>3</sup>	Surface
9-5/8"	1,500'	Light Cement Class "H"	315 ft <sup>3</sup> 155 ft <sup>3</sup>	Surface
7"	11,000'	Light Cement Class "H"	175 ft <sup>3</sup> 200 ft <sup>3</sup>	9,200'*

\* Calculated cement volume will be adequate to cover all hydrocarbon bearing zones.

D. Casing Test Procedures:

1. Surface casing (9-5/8"): 1,500 psi test pressure
2. Production casing (7"): 3,500 psi test pressure

5. Circulating Medium Characteristics:

A. Type and anticipated characteristics of drilling fluid:

<u>Depth Interval</u>	<u>Mud Type</u>	<u>MW (ppg)</u>	<u>FV (sec/qt)</u>	<u>PV (cp)</u>	<u>YP (#/100 ft<sup>2</sup>)</u>	<u>WL (cc/30 min)</u>	<u>pH</u>
0-1,500'	Spud Mud	8.4-8.9	26-35	--	--	--	8.5+
1,500-8,500'	FWM	8.4-9.0	30-50	5-12	6-20	10-15	9.5+
8,500-TD	SWM	8.8-10.4	36-46	5-17	6-18	10	9.5+

Mud weight and viscosity will be maintained at minimum levels compatible with operating conditions.

B. Quantities of Mud and Weighting Material:

1. Quantity: Not less than ± 200 bbls of mud will be in surface mud pits at all times.
2. Weighting Material: At least 200 sx of barite will be stocked on location. Stock point for barite and all other mud additions will be located within a two-hour radius.

C. Mud System Monitoring Equipment:

1. Pit Volume Totalizer: PVT will be used to monitor mud pits.
2. Trip Tank: Tank will be used to keep hole full of fluid on trips and to monitor hole behavior during trips.

6. Anticipated type and amount of coring, testing and logging:

- A. Drill Stem Tests: 1 is anticipated in the Twin Creek.  
2 are anticipated in the Nugget.

C. Logging Program:

From surface casing to total depth: BHC-Sonic-GR-CAL  
DIL-GR-SP  
Mudlogger

From 9,000' to total depth: FDC-CNL-GR-CAL

From surface to total depth: VSP

7. Expected bottom hole pressures, abnormal pressures and temperatures or any potential hazards:

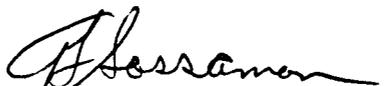
- A. Bottom hole pressure is expected to be less than 4,800 psi at total depth.

B. H<sub>2</sub>S is not expected.

8. Other Facets of Proposed Operation:

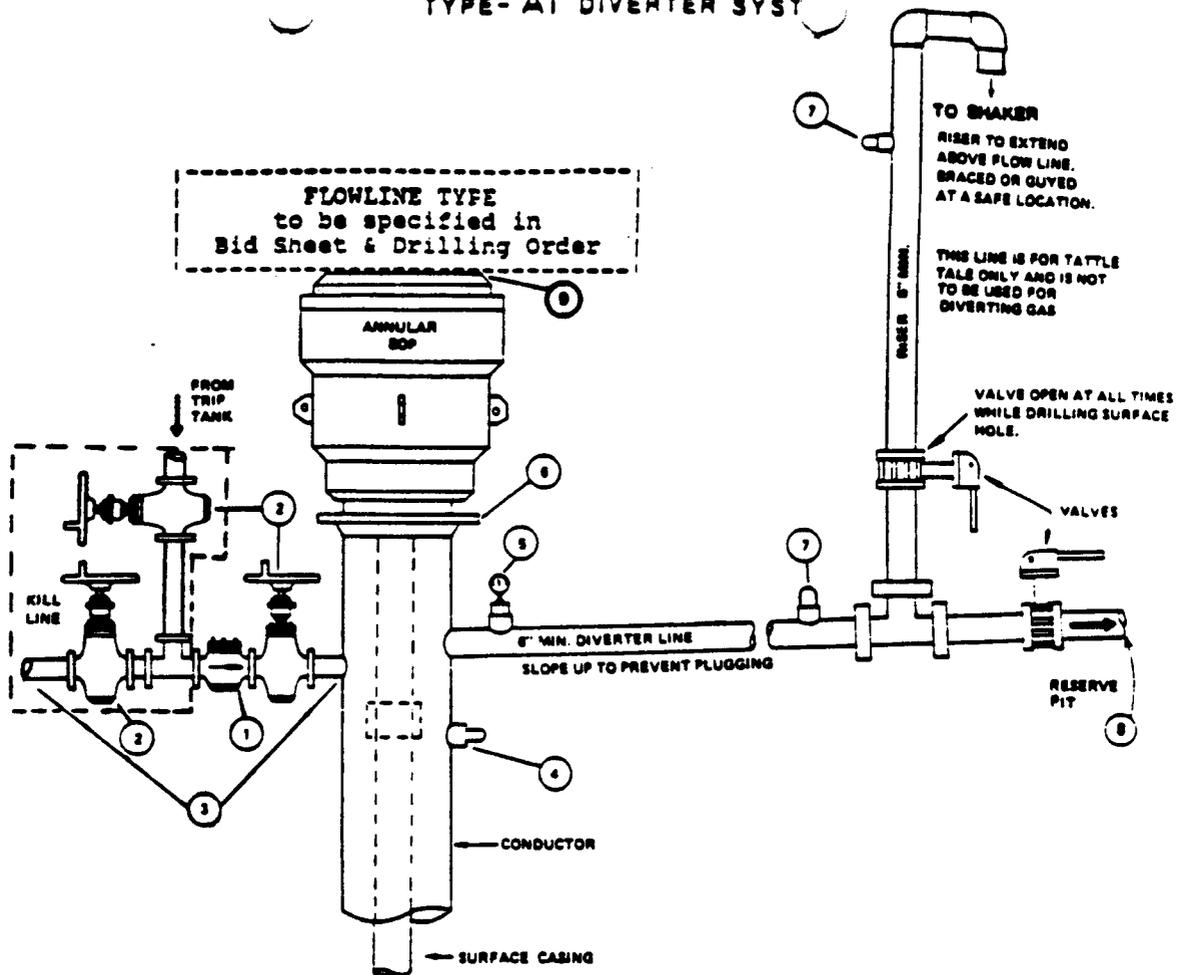
Completion Program: Perforate, stimulate, and production test intervals based on wireline logs and shows.

Contact A. L. Sossaman at (915) 686-4352 with any questions concerning this Drilling Plan.



A. L. Sossaman

# TYPE-A/ DIVERTER SYST



## COMPONENT SPECIFICATIONS

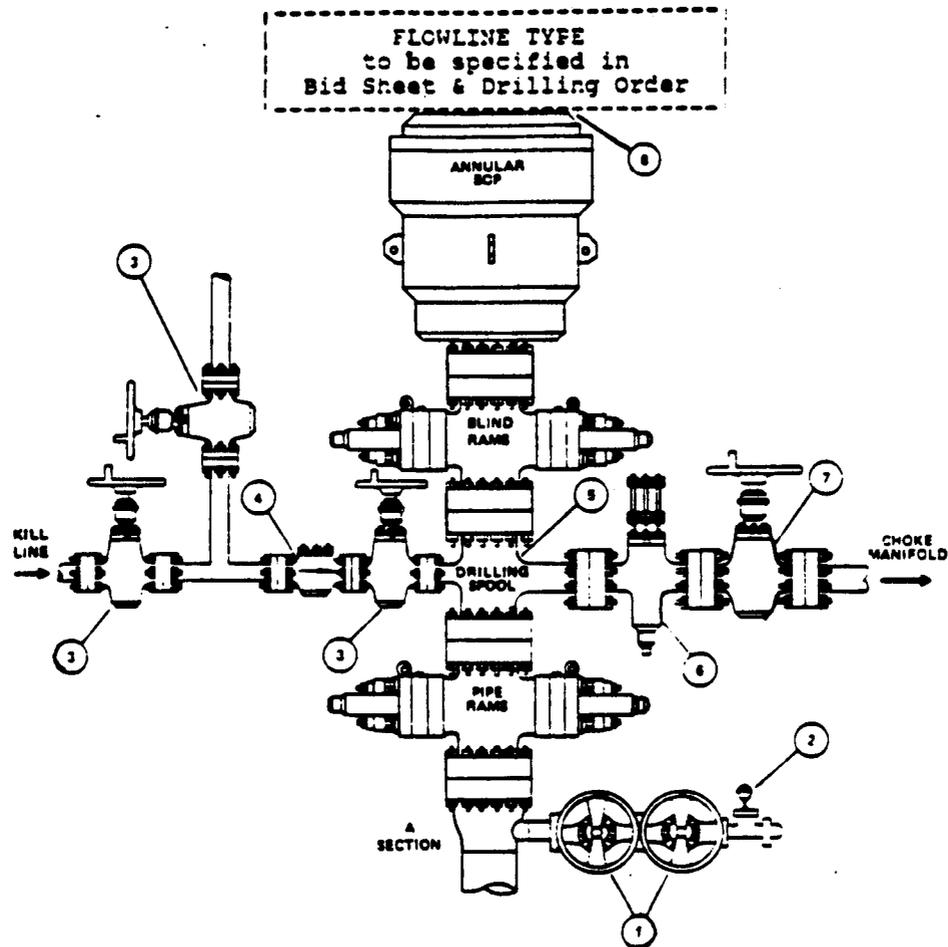
1. Flanged or screwed flapper type check valve -- 3" minimum nominal dia. and 150 psi minimum working pressure.
2. Flanged or screwed gate or plug valves -- 3" minimum nominal dia. and 150 psi minimum working pressure. NOTE: Outer valves are optional if pump type trip tank is tied into Flowline Type.
3. Kill line to pump water and minimize fire hazard when gas is flowing out diverter line. 3" thread-o-let welded to conductor.
4. 3" welded collar with bullplug. This connection is used to clean out cement.
5. 2" welded collar with tapped bullplug, valve, and pressure gauge.
6. Annular BOP companion flange -- screwed or welded to conductor casing. NOTE: A flanged spool with a diverter line side outlet can be used to save rig-up time.
7. Welded collar -- 2" minimum nominal dia. -- with bullplug. Cleanout connections.
8. Diverter line minimum 6" internal diameter.
9. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

### NOTE:

- A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all of the above equipment including annular BOP, flowline type and trip tank line connections.
- B. The diverter line valves and other diverter component equipment must be 150 psi minimum working pressure.
- C. The diverter line valves must be designed to maintain full open or closed position.
- D. Diverter lines must be securely anchored. Sleeve-type couplings should not be used for pipe joint connections and 45° or 90° ells must not be installed on the end of diverter lines to direct flow downward. These can cause the line to "kick-up" when large flow volumes are diverted.

# TYPE-RSRA BOP STACK

## THREE PREVENTERS



1. Screwed or flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve -- 2" minimum nominal dia. -- same working pressure as BOP stack. NOTE: Outer valves are optional if pump type trip tank is tied into Flowline Type.
4. Flanged spring-loaded or flapper type check valve -- 2" minimum nominal dia. -- same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets -- 3" choke and 2" kill line minimum nominal dia.
6. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
7. Flanged plug or gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

### NOTE:

- A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
- B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
- C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

February 10, 1988

TO: John Baza  
FROM: James Cunningham  
SUBJECT: Permit for water source

We have made application with the Water Rights department to add the place of use and point of diversion for the U.P.R.C. #1 to the attached permit for temporary change of water. We will be using the same 16 acre feet that we have appropriated from Wright Dairy Partnership.

If you have any questions concerning our water source, please call me at 915-686-4405.

JMC



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

December 21, 1987

Exxon Corp.  
P.O. Box 1600  
Midland, TX 79702

Gentlemen: Temporary Change †87-35-2

Temporary Change Number †87-35-2 has been approved subject to prior rights and the following conditions and stipulations:

- 1) No more water may be diverted than the 16.0 acre-feet of water as described in the application.
- 2) All diversion from the temporary point of diversion must cease December 30, 1988.

A copy of the Approved Temporary Change Application is returned herewith for your records and future reference.

Sincerely,

James E. Riley, P.E.  
Area Engineer

cc: Kent L. Jones, P.E.  
Directing Appropriations Engineer

Chalk Creek/Hoytsville Water User's Corp.  
c/o Lawrence Wright, Pres.  
Chalk Creek Road  
Coalville, UT 84017

NGPA & PERMITS

DEC 28 1987

RECEIVED

# APPLICATION FOR TEMPORARY CHANGE

Contact Exxon  
James Cunningham  
915-686-4405

RECEIVED  
DEC 18 1987  
STATE OF UTAH WATER

Rec. by JA  
Fee Paid \$ 30.00  
Receipt # 23444  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

\*WATER RIGHT NO. \_\_\_\_\_ \*APPLICATION NO. 87-35-2

Changes are proposed in (check those applicable)

point of diversion.  place of use.  nature of use.  period of use.

### 1. OWNER INFORMATION

Name: Exxon Corp. Attn: Permits Supervisor \*Interest: \_\_\_\_\_%  
Address: P. O. Box 1600  
City: Midland State: Texas Zip Code: 79702

2. \*PRIORITY OF CHANGE: \_\_\_\_\_ \*FILING DATE: \_\_\_\_\_

\*Is this change amendatory? (Yes/No): \_\_\_\_\_

3. RIGHT EVIDENCED BY: Chalk Creek-Hoytsville Water Users Corporation 16 shares from Cert. #113 dated 2-1-41. Application 8170-C, Cert. #8459

Prior Approved Temporary Change Applications for this right: \_\_\_\_\_

\*\*\*\*\* HERETOFORE \*\*\*\*\*

4. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 16 ac-ft.

5. SOURCE: South Fork Chalk Creek

6. COUNTY: Summit 5,456 E576

7. POINT(S) OF DIVERSION: 51°, 37 min. E 735' from north quarter corner of Sec. 34, T2N, R8E, Summit County, Utah.

Description of Diverting Works: \_\_\_\_\_

### 8. POINT(S) OF REDIVERSION

The water has been rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

### 9. POINT(S) OF RETURN

The amount of water consumed is \_\_\_\_\_ cfs or 16 ac-ft.

The amount of water returned is \_\_\_\_\_ cfs or 0 ac-ft.

The water has been returned to the natural stream/source at a point(s): \_\_\_\_\_

\*These items are to be completed by the Division of Water Rights.

**20. NATURE AND PERIOD OF USE**

Irrigation: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Stockwatering: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Domestic: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Municipal: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Mining: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Power: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
Other: From 1/1/88 to 12/30/88

**21. PURPOSE AND EXTENT OF USE**

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
Stockwatering (number and kind): \_\_\_\_\_  
Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
Municipal (name): \_\_\_\_\_  
Mining: \_\_\_\_\_ Mining District at the \_\_\_\_\_ Mine.  
Ores mined: \_\_\_\_\_  
Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
Other (describe): Oil and Gas Well Drilling

**22. PLACE OF USE**

Legal description of place of use by 40 acre tract(s): U.P.R.C. #1 well located (NWSE) of Sec. 17, T2N, R7E and the U.P.R.C. #2 well located (SWNE) of Sec. 17, T2N, R7E, S.L.M., Summit County, Utah.

**23. STORAGE**

Reservoir Name: Not Applicable Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.  
Height of dam: \_\_\_\_\_ feet.  
Legal description of inundated area by 40 tract(s): \_\_\_\_\_

**24. EXPLANATORY**

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): Water will be pumped from the South Fork Chalk Creek at the location described in paragraph 17 and will be hauled by truck approximately 3 1/2 miles to the points of use as described in paragraph 22 above. Water will also be pumped from wells at locations to pits.

\*\*\*\*\*

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

D. S. [Signature] for Dam 12/16/87  
Signature of Applicant(s)

030101

OPERATOR Edson Corp. DATE 2-12-88

WELL NAME U. P. R. C. #1

SEC. 7 T. 2N R. 7E COUNTY Summit

43-043-30290  
API NUMBER

See  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'

Water permit # 87-35-2

Exception requested

**MICROFICHE**

APPROVAL LETTER:

SPACING:

R615-2-3

UNIT

R615-3-2

CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

2. After excavation <sup>and lining</sup> of reserve pit & prior to placing fluid in the pit, the operator shall notify DOGM to allow inspection of pit liner
1. The <sup>reserve</sup> pit shall be lined with ~~with~~ tear resistant plastic liner with a minimum thickness of 12 mil
3. Directional Drilling Stipulation.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 24, 1988

NO420

Exxon Corporation  
P. O. Box 1600  
Midland, Texas 79702

Gentlemen:

Re: U.P.R.C. #1 - (Surf.) SE NW, (BHL) NW SE, Sec. 17, T. 2N, R. 7E  
(Surf.) 2335' FNL, 2052' FWL, (BHL) 2100' FSL, 2500' FEL  
Summit County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. The reserve pit shall be lined with tear resistant plastic liner with a minimum thickness of 12 mil.
2. After excavation and lining of reserve pit and prior to placing fluids in the pit, the operator shall notify DOGM to allow inspection of pit liner.
3. Submittal of directional drilling data upon completion of drilling operations to properly ascertain the location of the producing formation.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2  
Exxon Corporation  
U.P.R.C. #1  
February 24, 1988

5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-043-30290.

Sincerely,



R. L. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

032805

DIVISION OF OIL, GAS AND MINING

*Orl.*

SPUDDING INFORMATION

API #43-043-30290

NAME OF COMPANY: EXXON CORPORATION

WELL NAME: UPRC #1

SECTION NW SE 17 TOWNSHIP 2N RANGE 7E COUNTY Summit

DRILLING CONTRACTOR \_\_\_\_\_

RIG # \_\_\_\_\_

SPUDDED: DATE 3-11-88

TIME \_\_\_\_\_

How Dry Hole Digger

DRILLING WILL COMMENCE 3-22-88 - 8:45 PM - Adcor Rig #66

REPORTED BY \_\_\_\_\_

TELEPHONE # \_\_\_\_\_

DATE 3-24-88 SIGNED AS

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

(Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		3. LEASE DESIGNATION AND SERIAL NO. Fee <u>Orl.</u>
2. NAME OF OPERATOR Exxon Corp. Attn: Permits Supervisor		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>040705</b>
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2335' FNL and 2052' FWL of Sec. 17, (SENW)  BHL-Approx. 2100' FSL and 2500' FEL of Sec. 17, (NWSE)		8. FARM OR LEASE NAME U.P.R.C.
16. PERMIT NO. <u>43-043-30290</u>		9. WELL NO. 1
18. ELEVATIONS (Show whether DF, ST, GR, etc.) GR 6756.5		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Sec. 17, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETS <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spud</u>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The captioned well spudded 3-22-88.

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

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 3-28-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

COMMENTS OF APPROVAL, IF ANY:



UTAH  
NATURAL RESOURCES

*Q Rwr ✓ 4/14*

*(2) File*

To: *(WF) well file*

From: *Jerin Thompson*

Date: *4-11-88*

For your information and file.

For necessary action.

Reply directly to origin with a copy to this office.

Please draft a reply for signature of \_\_\_\_\_

\_\_\_\_\_ and

return by the following date \_\_\_\_\_.

Other *Please put in*

*individual well file*

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Summit*

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
BOPE TEST INSPECTION FORM

COMPANY: Exxon REPRESENTATIVE: Wayne Keel

WELL NAME: UPRC #1 API# 43-043-30290

QTR/QTR SE/NW SECTION 17 WELLSIGN  TWP 2N RANGE 7E

INSPECTOR: F. R. MATTHEWS DATE: 4-9-88

DRILLING CONTRACTOR Adcor RIG # 66

RIG OPERATIONS: Trip for bit and/or motor

DEPTH 5088 LAST CASING 9 5/8 40K 85 @ 1543

TEST BY Quick Test / Vernal WATER w/methanol MUD ---

PRESSURE RATING OF STACK 5000 psi H2S RATED N

TEST PRESSURES 300 12100 KELLYCOCK: UPPER  LOWER

INSIDE BOP  FULL OPENING VALVE ON FLOOR

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Annular
2. Blind Rams
3. Drilling Spool
4. Pipe Rams
5. Spool
6. Surface csg flange 3000 psi

ADDITIONAL COMMENTS: Annular tested to 1500 psi

Ren Cook tester. Also tested top 100' of csg. Leak

in csg head. screw in conn. weld ripple into wh.

REPORTED BY: Wayne Keel RIG PHONE: 801-336-5931

DATE: 4-9-88 SIGNED: F. R. Matthews

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

SUBMIT IN TRIPLICATE  
 (Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee	
<b>2. NAME OF OPERATOR</b> Exxon Corp. Attn: Permits Supervisor		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>	
<b>3. ADDRESS OF OPERATOR</b> P. O. Box 1600, Midland, TX 79702		<b>7. UNIT AGREEMENT NAME</b>	
<b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)</b> At surface 2335' FNL and 2052' FWL of Sec. 17, (SENW)  BHL-Approx. 2100' FSL and 2500' FEL of Sec. 17, (NESW)		<b>8. FARM OR LEASE NAME</b> U.P.R.C.	
<b>14. PERMIT NO.</b> 43 043 30290		<b>9. WELL NO.</b> 1	
<b>15. ELEVATIONS (Show whether SP, RT, CR, etc.)</b> GR 6756.5		<b>10. FIELD AND POOL, OR WILDCAT</b> Undesignated	
		<b>11. SEC., T., R., M., OR BLK. AND SUBVY OR ARBA</b> Sec. 17, T2N, R7E	
		<b>12. COUNTY OR PARISH</b> Summit	<b>13. STATE</b> Utah

**DATE RECEIVED**  
  
 APR 14 1988  
 DIVISION OF OIL, GAS & MINING

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETS <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Drilling Report</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\***

3-12 thru 3-15-88 Drill conductor hole and cemented 16" conductor in place @ 120'. Had state inspection of reserve pit liner.

3-16 thru 3-17-88 Move in and set up septic system.

3-18 thru 3-21 M.I.R.U.

3-22-88 Spud and drill 12 1/4" hole.

3-23 thru 3-25-88 Drill surf hole to 1552'.

3-25-88 RU and run 36 jts of 9 5/8"/40#/K-55/LTC, set @ 1545', cemented w/ 685 sx CLH, did not circulate to surface. Pumped additional 150 sx cmt on top out job, circ. 8 BBL to pit.

3-26-88 N.U. BOP's and test BOP's and valves - choke manifold to 300 psi and 3000 psi - OK. Ran gyro and drilled out of casing.

3-27 and 28 Drill and run surveys, tripped for hole in pipe, RIH w/ new bit.

3-29 thru 3-31-88 Drill, run surveys and function test BOP's.

**18. I hereby certify that the foregoing is true and correct**

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 4-8-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CORRECTIONS OF APPROVAL IF ANY:

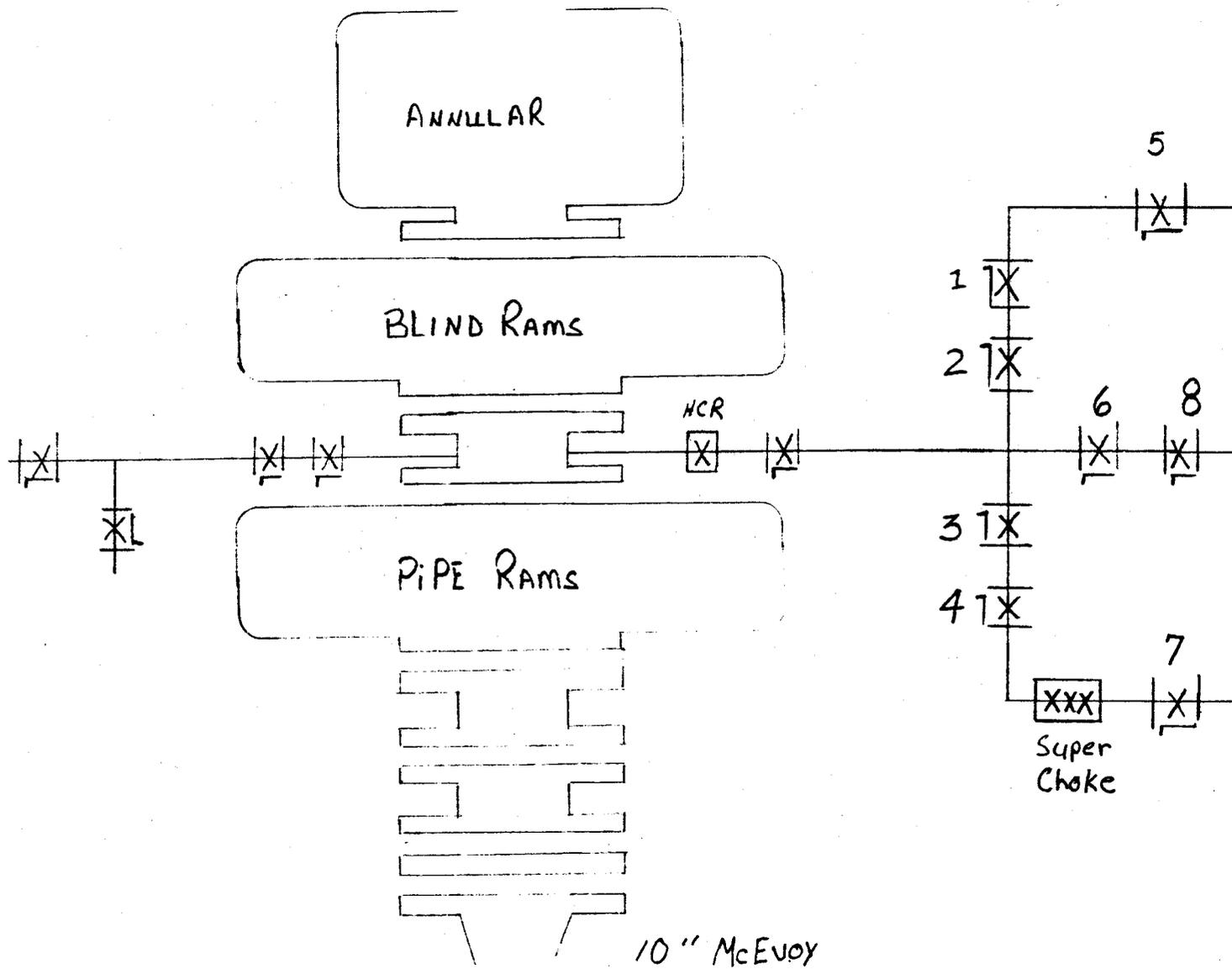
QUICK TEST  
OFFICE (801) 789-8159

Exxon U.S.A. Inc.  
UPRC #1  
4-9-88

TEST #	ITEM TESTED	PRESSURE	MIN. HELD	RESULTS
1	Choke line with manual valve closed. Choke manifold with valves 2,3, &6 closed	300	5	No visable leaks.
		2100	5	No visable leaks.
2	Same test, closed valves 1,8, &4	300	5	No visable leaks.
3	Blind rams, kill line with valve #1 closed, choke line and choke manifold with valve 5,7, &8 closed.	300	5	No visable leaks.
		2100	5	No visable leaks.
4	Same test, closed super choke, opened valve #7 on manifold	3000	5	No visable leaks.
		2100	-	Slight leak , work super choke.
5	Same test	2100	5	No visable leaks.
6	Pipe rams valve #2 on kill line. choke line with HCR valve closed	300	5	No visable leaks.
		2100	-	Lost Oring on test plug. (replace)
7	Same test	2100	5	No visable leaks.
8	Same test, closed valves 3 &4 on kill line closed manual valve on choke line	300	5	No visable leaks.
		2100	5	No visable leaks.

## Exxon (con't)

TEST #	ITEM TESTED	PRESSURE	MIN. HELD	RESULTS
9	Inside BOP	300	5	No visible leaks.
		2100	5	No visible leaks.
10	Lower kelly cock	300	5	No visible leaks.
		2100	5	No visible leaks.
11	Upper kelly cock	300	5	No visible leaks.
		2100	5	No visible leaks.
12	Safety valve	300	5	No visible leaks.
		2100	5	No visible leaks.
13	Hydril, kill line with valves # 4 closed, choke line with HCR valve closed, 100' 9 5/8 CSG.	300	5	No visible leaks.
		1500	5	No visible leaks.







STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
BOPE TEST INSPECTION FORM

COMPANY: EXXON REPRESENTATIVE: JOHN McLAIN

WELL NAME: UPRC #1 API# 43-043-30290

QTR/QTR SE/NW SECTION 17 WELLSIGN  TWP 2N RANGE 7E

INSPECTOR: BRAD Hill DATE: 4/26/88

DRILLING CONTRACTOR ADCOR RIG # 66

RIG OPERATIONS: TRIPPING OUT DOWN HOLE MOTOR TO GO BACK  
TO CONVENTIONAL DRILLING

DEPTH 7182 LAST CASING 9 5/8 40" K550 1543

TEST BY DOUBLE JACK TESTING WATER  MUD

PRESSURE RATING OF STACK 5000 # H2S RATED

TEST PRESSURES 300 / 12100 KELLYCOCK: UPPER  LOWER

INSIDE BOP  FULL OPENING VALVE ON FLOOR

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. HYDRIL - ANNULAR
2. BLIND RAMS
3. MUD CROSS
4. PIPE RAMS
5. 2 DRILLING SPOOLS
6. 10" McARDY WELL HEAD

ADDITIONAL COMMENTS: TESTED CHOKE MANIFOLD 200/1000 #

TESTED UPPER 90' OF CASING 200/1000 #

REPORTED BY: JOHN McLAIN PHONE: 336-5931

DATE: 4/26/88 SIGNED: Brad Hill

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

RECEIVED  
APR 07 1988

March 15, 1988

DIVISION OF  
U.S. AND S. MINING

Exxon Corp.  
P.O. Box 1600  
Midland TX 79702

Gentlemen: Temporary Change †88-35-1

Temporary Change Number 88-35-1 has been approved subject to prior rights and the following conditions and stipulations.

- 1) No more water may be diverted than the 16.0 acre-feet of water as described in the application.
- 2) All diversion from the temporary point of diversion must cease March 15, 1989.

A copy of the Approved Change application is returned herewith for your records and future reference.

Sincerely,

William L. Burton, for

James E. Riley, P.E.  
Area Engineer

WLB/JER/II

cc: Kent L. Jones, P.E.  
Direction Appropriations Engineer

Chalk Creek/Hoytsville Water User's Corp.  
c/o Lawrence Wright, Pres.  
516 East Chalk Creek Road  
Coalville, UT 84017



12. COUNTY: Summit

COMMON DESCRIPTION:

13. POINT(S) OF DIVERSION: Changed as follows:

- (1) S 2140 ft. W 2000 ft. from NE corner, Section 14, T2N, R6E, SLBM  
Source: South Fork Chalk Creek
- (2) S 2650 ft. E 2052 ft. from NW corner, Section 17, T2N, R7E, SLBM  
Source: South Fork Chalk Creek
- (3) S 1900 ft. W 2200 ft. from NE corner, Section 17, T2N, R7E, SLBM  
Diameter of Well: 8 ins. Depth: 500 to 1000 ft.
- (4) S 2335 ft. E 2052 ft. from NW corner, Section 17, T2N, R7E, SLBM  
Diameter of Well: 8 ins. Depth: 500 to 1000 ft.
- (5) N 1377 ft. W 1757 ft. from SE corner, Section 17, T2N, R7E, SLBM  
Diameter of Well: 8 ins. Depth: 500 to 1000 ft.

14. PLACE OF USE: Changed as follows:

✓ 43-043-30288-#2 Drl.  
Sec 17, T2N, R7E, SLBM

NORTH-EAST 1/4		NORTH-WEST 1/4		SOUTH-WEST 1/4		SOUTH-EAST 1/4
NE NW SW SE		NE NW SW SE		NE NW SW SE		NE NW SW SE
: : X:		: : : X		: : :		: X: :

✓ 43-043-30290-#1 Drl.

✓ 43-043-30287-#3 Drl.

15. NATURE OF USE: Changed as follows:

OTHER: Oil and Gas well Drilling

PERIOD OF USE: March 15, 1988 to March 15, 1989

EXPLANATORY

Water will be pumped from the South Fork Chalk Creek at the locations described and will be piped to the location or hauled by truck approximately 3 1/2 miles to the points of use as described. Water will also be pumped from wells at locations to pits.

The undersigned hereby acknowledges that even though he/she may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Engineer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

\_\_\_\_\_  
Signature of Applicant

---

TEMPORARY CHANGE APPLICATION NUMBER: †88-35-1

1. March 15, 1988            Change Application received.
2. March 15, 1988            Application designated for APPROVAL by JER and JER.
3. Comments:

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Conditions:

This application is hereby APPROVED, dated March 15, 1988, subject to prior rights and this application will expire on March 15, 1989.

*William L. Preston, Jr.*

James E. Riley, Area Engineer  
for  
Robert L. Morgan, State Engineer

Double Jack Testing & Services Inc.

FIELD TICKET 5779

P.O. Box 2097

Evansville, Wyoming 82930

(307) 789-8213

DATE 5-10-88

OPERATOR Exxon

COUNTY Summit

STATE Utah

SECTION 17

RIG NAME AND #

Ad cor 66

WELL NAME AND NO.

U.P.B.C. 1

TOWNSHIP 2 N

RANGE

7 E

EQUIPMENT TESTED

300 psi	RAMS	300	5 mins	2100	5 mins
2100 psi	RAMS	300	5 mins	2100	5 mins
	RAMS				
	ANNULAR				
	B.O.P.	300	5 mins	2100	5 mins
	CHOKES				
	LINE	300	5 mins	2100	5 mins
	KILL				
	LINE	300	5 mins	2100	5 mins
	UPPER				
	KELLY	300	5 mins	2100	5 mins
	LOWER				
	KELLY	300	5 mins	2100	5 mins
	SAFETY				
	VALVES	300	5 mins	2100	5 mins

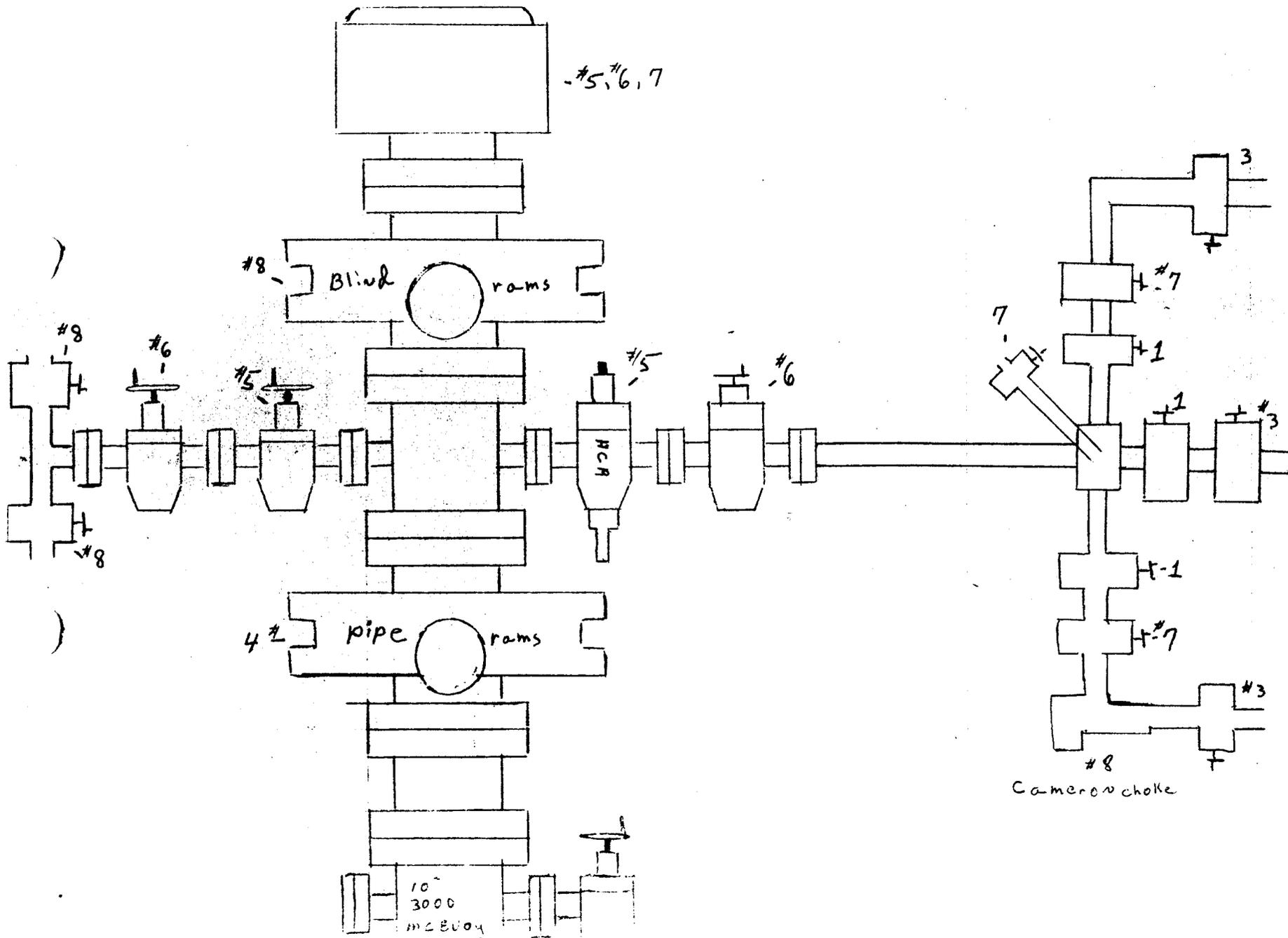
ADDITIONAL TESTS & COMMENTS

Test Cameron Super Choke 300 psi 5 mins 2100 psi 5 mins  
Test top 75ft of 9578 40lb casing to 1000 psi 10 mins

no test on first lower Kelly changed out retested wear valve

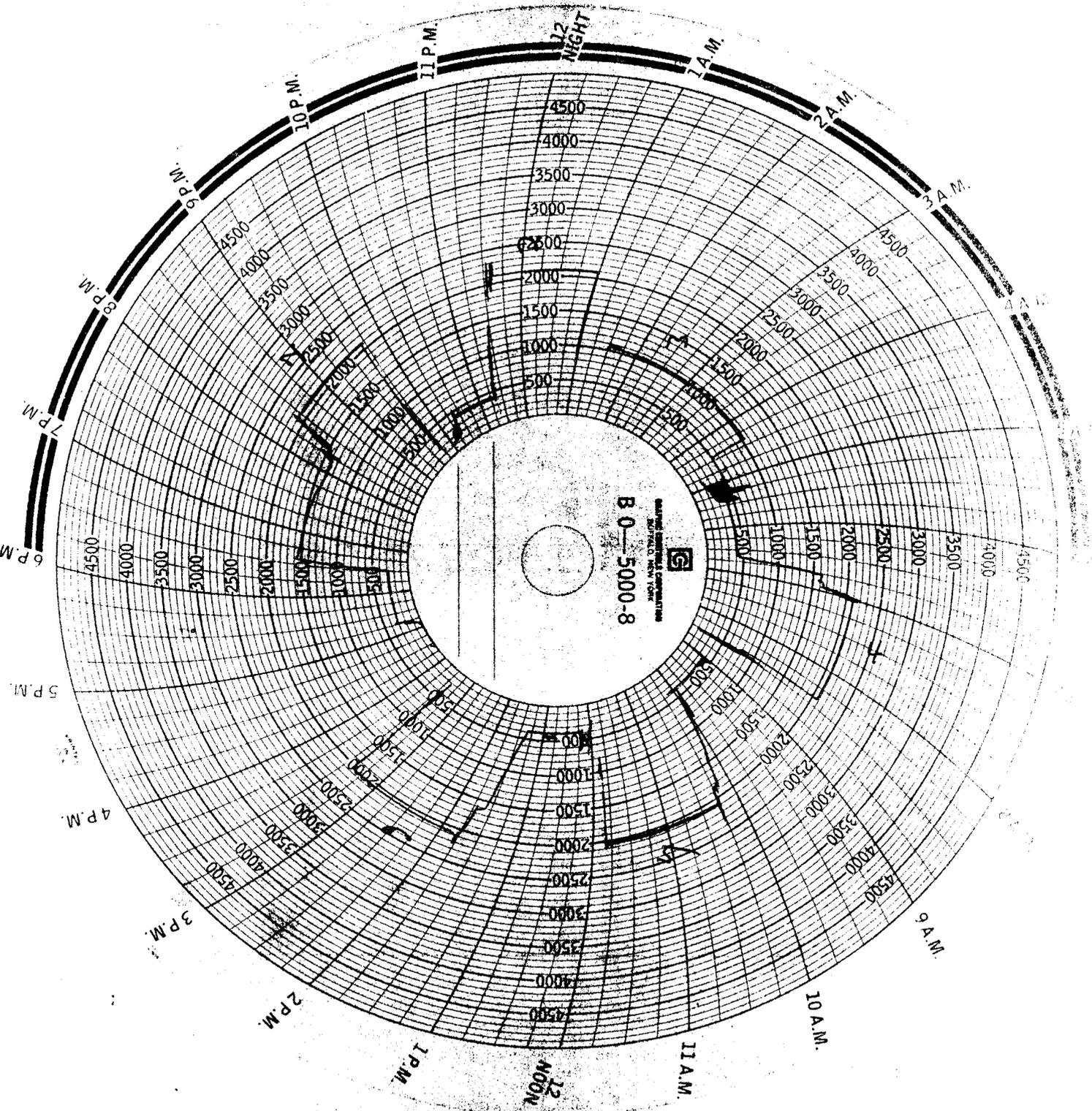
Notified Jim Thompson with Utah oil & gas 9:30 AM 5-10-88

CLOSING UNIT PSI 2000 psi CLOSING TIME OF RAMS 5 secs HYDRIL 9 secs  
CLOSED CASING HEAD VALVE yes SET WEAR RING yes



EXXON UPRC 1 5-10-88 Ad cor 66

TIME	DESCRIPTION
12:05	arrive at location rig up to test
12:15 - 12:20	300 psi test inside 3 manual valves to manifold
12:20 - 12:25	2100 psi "
12:26 - 12:31	300 psi test outside 3 manual valves or manifold
12:32 - 12:37	2100 psi "
	rig up pull wear ring run 1 stand of pipe with cup packer tool
1:20 - 1:30	1000 psi test top 75 ft of 95/8 40" lb casing pull cup packer set plug note had a hard time getting plug through Hydril wacker several times
2:25 - 2:30	300 test lower pipe rams T I valve
2:30 - 2:35	2100 "
2:40 - 2:45	300 psi test Hydril inside manual loss Kill line HOK on choke line T I valve
2:45 - 2:50	2100 psi "
2:55 - 3:00	300 psi test Hydril second manual on Kill line, last valve manual on choke line, last valve
3:00 - 3:05	2100 psi "
3:07 - 3:12	300 psi test Hydril vertical riser, middle valves on manifold second on Kill line
3:13 - 3:18	2100 psi "
3:40 - 3:45	300 psi test Blind rams, outside two manuals, on Kill Cameron super choke
3:45 - 3:50	2100 psi "
	no test on lower Kelly
4:10 - 4:20	test Upper Kelly 300 low 2100 high leaked sub
	test second lower Kelly picked up put in string
	set wear ring up down





Well File

Exxon U.S.A. Inc.  
UPRC #1  
Section 17  
Township 2N  
Range 7E  
Adcor #66  
4-09-88  
Tested by Ron Cook

43-043-30290

**RECEIVED**  
APR 15 1988

DIVISION OF  
OIL, GAS & MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to complete a well in a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

<p>1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/></p>		<p>5. <b>LEASE DESIGNATION AND SERIAL NO.</b> Fee</p>
<p>2. <b>NAME OF OPERATOR</b> Exxon Corporation                      Attn: Permits Supervisor</p>		<p>6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b></p>
<p>3. <b>ADDRESS OF OPERATOR</b> P. O. Box 1600, Midland, TX 79702</p>		<p>7. <b>UNIT AGREEMENT NAME</b></p>
<p>4. <b>LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)</b> At surface 2335' FNL and 2052' FWL of Sec. 17, (SENW)  BHL (Approx) 2100' FSL and 2500' FEL of Sec. 17, (NESW)</p>		<p>8. <b>FARM OR LEASE NAME</b> U.P.R.C.</p>
<p>14. <b>PERMIT NO.</b> 43-043-30290</p>	<p>15. <b>ELEVATIONS (Show whether DF, RT, OR, etc.)</b> GR 6756.5</p>	<p>9. <b>WELL NO.</b> 1</p>
<p>10. <b>FIELD AND POOL, OR WILDCAT</b> Undesignated</p>		<p>11. <b>SEC., T., R., M., OR BLE. AND SURVEY OR AREA</b> Sec. 17, T2N, R7E</p>
<p>12. <b>COUNTY OR PARISH</b> Summit</p>		<p>13. <b>STATE</b> Utah</p>

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Drilling Report</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

4-01-88 thru 4-10-88 Drilling from 3360'-5091'. Run surveys. Function test BOPs, trip for bit and hole in pipe.

4-10-88 Trip pipe, pressure test BOP's (witnessed by Frank Matthews w/ Utah O & G Commission).

4-11-88 thru 4-15-88 Drilling from 5091'-6282', run surveys, function test BOP's, trip for holes in pipe and motor problems.

4-15-88 Encountered drlg break from 6271'-6280'. 63 BBL pit gain. SIDPP 205 psi. Weight up mud w/ salt to 9.9 PPG. To kill water flow.

4-16-88 Back to drilling.

4-17-88 Drilling, drilling break from 6437'-6446'. Well flowed again. SIDPP 200 psi. Built MW to 10.6 PPG.

4-18-88 thru 4-21-88 Drilling w/ some lost returns, trips for motor problems, fish for survey tool.

4-22-88 thru 4-26-88 Drill, trip for motor problems, run surveys. On 4-26, pressure tested BOP's to 300 psi and 2100 psi (test witnessed by Brad Hill w/ Utah O & G Commission).

4-26-88 thru 4-30-88 Drilling to 7717'. Function test BOP's.

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

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 5-3-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

30290

RECEIVED  
MAY 31 1988

DIVISION OF  
OIL, GAS & MINING

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. Test Report

B.O.P. Test Performed on (date) 5-10-88

Oil Company Exxon

Well Name & Number U.P.R.C. 1

Section 17

Township 2n

Range 7e

County Summit Utah

Drilling Contractor Adcor 66

Oil Company Site Representative John

Rig Tool Pusher \_\_\_\_\_

Tested out of Evanston

Notified Prior to Test Utah oil Gas

Copies of This Test Report Sent to: Utah

Site Rep

Original Chart & Test Report on File at: Evanston

Tested by: Double Jack Testing & Services, Inc.  
108 Parkview Road  
P.O. Box 2097  
Evanston, Wyoming 82930

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*

(Other instructions on reverse)

**RECEIVED**  
JUN 6 1988

LEASE DESIGNATION AND SERIAL NO.

Fee

IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug wells. A different form is reserved for such proposals. Use "APPLICATION FOR PERMIT—" for such proposals.)

DIVISION OF  
OIL, GAS & MINING

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Exxon Corporation Attn: Permits Supervisor		8. FARM OR LEASE NAME U.P.R.C.
3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2335' FNL and 2052' FWL of Sec. 17, (SENW)		10. FIELD AND POOL, OR WILDCAT Undesignated
BHL (Approx) 2100' FSL and 2500' FEL of Sec. 17, (NESW)		11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA Sec. 17, T2N, R7E
14. PERMIT NO. 43-043-30290	15. ELEVATIONS (Show whether DF, RT, OR, etc.) GR 6756.5	12. COUNTY OR PARISH Summit
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Utah Oil and Gas Commission representative, John Baza, gave verbal approval on May 31, 1988 to extend the permitted depth for the captioned well to 11,200'.

**COPY**

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

SIGNED James Cunningham TITLE Administrative Specialist DATE 6-1-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 6-7-88  
BY: John R. Baza

\*See Instructions on Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
BOPE TEST INSPECTION FORM

COMPANY: Exxon REPRESENTATIVE: John McLain  
WELL NAME: UPRC #1 API# 43-043-30290  
QTR/QTR SE/NW SECTION 17 WELLSIGN  TWP 2N RANGE 7E  
INSPECTOR: JM + BH DATE: 6-2-88  
DRILLING CONTRACTOR Adcor RIG # 66  
RIG OPERATIONS: Trip for new bit  
DEPTH 11,033 LAST CASING 98 @ 1560  
TEST BY Double Jack Testing WATER  MUD \_\_\_\_\_  
PRESSURE RATING OF STACK 5000 psi H2S RATED No  
TEST PRESSURES 2100/300 KELLYCOCK: UPPER  LOWER   
INSIDE BOP  FULL OPENING VALVE ON FLOOR   
WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. ANNULAR
2. Blind Rams
3. Drilling Spool
4. Pipe Rams
5. Spacer Spool
6. 3000 psi WP Surface flange

ADDITIONAL COMMENTS: Now datg suggest formation. BOP drill  
w/crew ON EVENING TOUR recorded on Tour sheet.  
Hole should be TD' today or tomorrow.

REPORTED BY: John McLain PHONE: 801-336-5931  
DATE: 6-2-88 SIGNED: JM McLain

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

0451T Copy of test will be sent to the office

STATE OF UTAH

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-

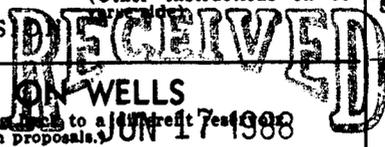
OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

Fee

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug wells to a different location.  
Use "APPLICATION FOR PERMIT—" for such proposals.)



1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Monthly Drilling Report		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Exxon Corporation		8. FARM OR LEASE NAME U.P.R.C.	
3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2335' FNL & 2052' FWL of Sec. 17 (SENW) BHL (Approx) 2100' FSL & 2500' FEL of Sec. 17 (NESW)		10. FIELD AND POOL, OR WILDCAT Undesignated	
14. PERMIT NO. 43-043-30290		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T2N, R7E	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) GR 6756.5		12. COUNTY OR PARISH Summit	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Drilling Report</u> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5-1 thru 5-31-88 Drilling, function and pressure test BOP's, pick up and drill with mud motor, run surveys.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
TAS	✓
MICROFILM	
2- FILE ✓	

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

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 06-10-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RECEIVED  
AUG 1 1988

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

PRINT IN TRIPLICATE  
Per Instructions  
AUG 1 1988

SUNDRY NOTICES AND REPORTS ON WELLS  
DIVISION OF OIL, GAS & MINING

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Monthly Drilling Report		5. WELLS DESIGNATION AND SERIAL NO. Fee																				
2. NAME OF OPERATOR Exxon Corporation Attn: Permits Supervisor		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702		7. UNIT AGREEMENT NAME																				
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14. PERMIT NO. 43-043-30290	15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6756.5	9. WELL NO. 1																				
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(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

6-1 thru 6-3-88 Drilling, function and pressure test BOP's. Drill to TD of 11,114. Begin logging. Log through 6-6-88.

6-7 & 6-8, run production casing: 0 - 1315' 5 1/2"/20#/S00-90/BT  
 1315' - 1921' 5 1/2"/20#/C95/BT  
 1921' - 3055' 5 1/2"/20#/L80/LTC  
 3055' - 8440' 5 1/2"/17#/L80/LTC  
 8440' - 9936' 5 1/2"/23#/P110/LTC  
 9936' - 11112' 5 1/2"/20#/L80/LTC

Two stage cement job: 1st stage - 550 sx CLH w/.4% HR5. TOC 9700' (calc)  
 2nd stage - Lead, 1350 sx HLC w/.4% HR5. Tail, 1000 sx CLH w/.3% HR5  
 TOC 800' (calc)

6-9 thru 6-21 WO completion rig.  
 6-22 MIRU completion rig. NU BOPS  
 6-23 thru 6-26 DO DV tool, clean out to 11077'  
 6-27 Ran GR/CLL from 11066'-8500'  
 6-28 Perfed: 11000'-10956' (4spf), Swabbed.  
 6-29 Swabbed  
 6-30 Ran Temp. Log

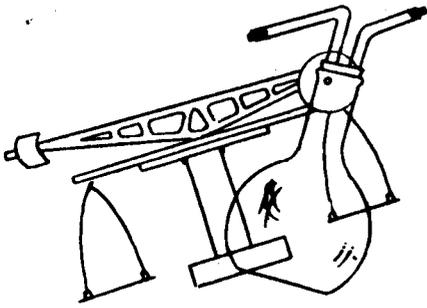
18. I hereby certify that the foregoing is true and correct

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 07-28-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



# Ford Chemical

LABORATORY, INC.  
*Bacteriological and Chemical Analysis*

40 WEST LOUISE AVENUE  
SALT LAKE CITY, UTAH 84115

PHONE 466-8761

DATE: 08/05/88

## CERTIFICATE OF ANALYSIS

ELVAY CONSTRUCTION  
P.O. BOX 609  
EVANSTON, WY  
82930

88-002167

SAMPLE: LIQUID SAMPLE UPRC #1 FROM EXXON RECEIVED 7-15-88 FOR  
E.P. TOXIC ANALYSIS USING PROCEDURE SW846 FOR LEACHABLE  
METALS STARTING AT 1 P.M.

### RESULTS

1-Arsenic as As mg/l SM304	.006
1-Barium as Ba mg/l SM303C	1.58
1-Cadmium as Cd mg/l SM304	<.005
1-Chromium as Cr mg/l SM304	.020
1-Lead Spike Recovery %	98.95
1-Lead as Pb mg/l SM304	<.001
1-Lead pb (dupl) mg/l SM304	<.001
1-Mercury as Hg mg/l SM320A	<.0004
1-Selenium as Se mg/l SM304	<.001
1-Silver as Ag mg/l SM304	<.001
1-pH Initial Units	4.75
3-React.as H2S mg/kg EPA376.1	2.40
3-React.as HCN mg/kg EPA9010	<.02

*43-043-30290*  
*See 17 T 2N R 1E*  
*Summit County*



# Ford Chemical LABORATORY, INC.

*Bacteriological and Chemical Analysis*

40 WEST LOUISE AVENUE  
SALT LAKE CITY, UTAH 84115

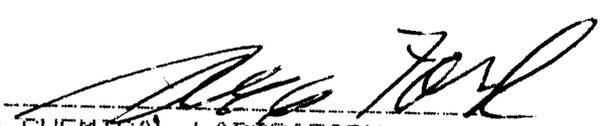
PHONE 466-8761

PAGE: 2

CERTIFICATE OF ANALYSIS  
88-002167

## RESULTS

Ignitability-40 CFR 261.21 F.	200
Liquid % E.P. Toxic SW 846	100
Solids % EP Toxic SW 846	<.5

  
FORD CHEMICAL LABORATORY, INC.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*

**RECEIVED**  
AUG 11 1988

LEASE DESIGNATION AND SERIAL NO.  
Fee  
IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a well in a reserved area. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Monthly Drilling Report		DIVISION OF OIL, GAS & MINING	
2. NAME OF OPERATOR Exxon Corporation		Attn: Permits Supervisor	
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14. PERMIT NO. 43-043-30290		15. ELEVATIONS (Show whether DF, RT, OR, etc.) GR 6756.5	
7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME U.P.R.C.	
9. WELL NO. 1		10. FIELD AND POOL, OR WILDCAT Undesignated	
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 17, T2N, R7E		12. COUNTY OR PARISH Summit	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Drilling Report</u>	<input checked="" type="checkbox"/>
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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- 7-1 Finish running temp. log.
- 7-2, 3 & 4 Well shut in.
- 7-5, 6 & 7 Swab.
- 7-8 thru 19 Well shut in.
- 7-20 Set CIBP @ 10944', cap w/ 1sx of cmt
- 7-21 Test CIBP to 7000 psi. Perf from 10903' to 10826' (2spf), swabbed.
- 7-22 thru 26 Well SI.
- 7-27 Acidize new perfs w/ 7500 gal of 28% HCL.
- 7-28 thru 31 swab.

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

SIGNED Stephery Johnson TITLE Administrative Specialist DATE 08-09-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

SEP 26 1988

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.P.R.C.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 17, T2N, R7E

12. COUNTY OR PARISH 13. STATE

Summit

Utah

1. OIL WELL  GAS WELL  OTHER  Monthly Drilling Report

2. NAME OF OPERATOR Exxon Corporation Attn: Permits Supervisor

3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

2335' FNL & 2052' FWL of Sec. 17 (SENW)  
BHL (Approx) 2100' FSL & 2500' FEL of Sec. 17 (NESW)

14. PERMIT NO.  
43-043-30290

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
GR 6756.5

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Monthly Drilling Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- 8-1 Swab
- 8-2 & 3 Well shut in.
- 8-4 Set CIBP @ 10800', cap w/ 1 sx cmt.
- 8-5 Perf. from 10692' - 10720' (2spf), 10574' - 10602' (2spf), swabbed.
- 8-6 Swab, measure influx.
- 8-7 Acidize w/ 6048 gal of 28% HCL. Swabbed.
- 8-8 & 9 Swab.
- 8-10 Swab. Set CIBP @ 10686', cap w/ 1 sx cmt. Swab.
- 8-11 Swab.
- 8-12 Acidize w/ 2503 gal of 28% HCL. Swab.
- 8-13 & 14 Well SI.
- 8-15 Swab.
- 8-16 thru 8-31 Well SI for evaluation.

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

SIGNED

Stephen Johnson

TITLE Administrative Specialist

DATE 09-21-88

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

**RECEIVED**  
OCT 21 1988

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-)

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
DIVISION OF OIL, GAS & MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Monthly Drilling Report		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Exxon Corporation Attn: Permits Supervisor		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2335' FNL & 2052' FWL of Sec. 17 (SENW) BHL (Approx) 2100' FSL & 2500' FEL of Sec. 17 (NESW)		8. FARM OR LEASE NAME U.P.R.C.
14. PERMIT NO. 43-043-30290	15. ELEVATIONS (Show whether DF, RT, OR, etc.) GR 6756.5	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	Monthly Drilling Report <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- 9-1 thru 9-5 Well SI
- 9-6 Swab & Run Temp Log
- 9-7 Run Temp Log, Set CIBP @ 10675' and test to 3000#-OK, Set Cmt retainer @ 10490',
- 9-8 Pump 200 sx CLG and attempt sqz.
- 9-9 Pump 200 sx CLG and attempt sqz.
- 9-10 Pump 100 sx CLG w/ 1/4# per sx D-29 and 10# per sx d-42, and 100 sx CLG. Got sqz.
- 9-11 SI
- 9-12 Found TOC @ 10480', begin to drill out cmt. & retainer.
- 9-13 Fish for cone, mill.
- 9-14 Drill out to 10658', test sqz - OK.
- 9-15 Set pkr @ 10466', perf Twin Creek @ 10398-10428, 10438-10496, 10514-10526, 10536-10541.
- 9-16 Swab.
- 9-17 thru 9-20 Well SI.
- 9-21 & 9-22 Swab.
- 9-23 thru 9-25 SI.
- 9-26 Acid frac w/ 10000 gal of 28% HCL.
- 9-27 thru 9-29 Swab.
- 9-30 Well SI.

18. I hereby certify that the foregoing is true and correct  
 SIGNED Stephen Johnson TITLE Administrative Specialist DATE 10-13-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

**RECEIVED**  
NOV 07 1988

STATE OF UTAH

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Monthly Drilling Report</p> <p>2. NAME OF OPERATOR Exxon Corporation Attn: Permits Supervisor</p> <p>3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, TX 79702</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2335' FNL &amp; 2052' FWL of Sec. 17 (SEW) BHL (Approx) 2100' FSL &amp; 2500' FEL of Sec. 17 (NESW)</p> <p>14. PERMIT NO. 43-043-30290</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. FEE</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME U.P.R.C.</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Undesignated</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T2N, R7E</p> <p>12. COUNTY OR PARISH Summit</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) GR 6756.5</p>		

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/> Monthly Drilling Report	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

10-1 thru 10-9 Well SI  
 10-10 Set CIBP @ 10565.  
 10-11 Tested CIBP to 3000# - OK, Perfed: 10536 - 10541, 10514 - 10526, 10438 - 10496, 10398 - 10428, 2spf, 218 shots.  
 10-12 & 13 Swab.  
 10-14 Acidized w/ 9500 gal of 28% HCL. Swab.  
 10-15 Swab  
 10-16 SI  
 10-17 Swab  
 10-18 Set CIBP @ 10300' and cap w/ 3 sx cmt. Test to 2000# - OK. Well temporarily abandon.

This well has uphole potential for use as a water disposal well. This use is being evaluated.

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

SIGNED

*Stephen Johnson*  
Stephen Johnson

TITLE Administrative Specialist

DATE 11-02-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

SCIENTIFIC DRILLING CONTROLS  
SURVEY FIELD REPORT

PAGE 1 OF 1

JOB NO.: 4160388011

for

DATE: 3-26-88

WELL NO.: \_\_\_\_\_

Exxon Company U.S.A.

SURVEYOR: John H Beckner

LOCATION: Summit Co, Utah

method of calculation

SURVEY TYPE: Gyroscopic

LEASE: UPRC #1

Radius of Curvature

PROPOSAL: S 40.8° E

MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEV.	INC.		BEARING		COORDINATES				DOG-LEG PER 100'
				D	M	D	M	LATITUDE	N/S	DEPARTURE	E/W	
100	100	- .15		- 3/8		S 76-	W	.08	S	.32	W	.38
200	200	- .06		- 1/4		S 02-	W	.48	S	.64	W	.39
300	300	.14		- 1/8		S 22-	W	.80	S	.71	W	.14
400	400	.0		- 1/4		N 42-	W	.85	S	.99	W	.33
500	500	- .22		Vert.		0		.69	S	1.13	W	.25
600	600	.18		- 1/2		S 66-	E	.86	S	.73	W	.50
700	699.99	1.30		1-		S 76-	E	1.29	S	.50	E	.51
800	799.96	3.06		1- 7/8		S 86-	E	1.65	S	2.77	E	.67
900	899.91	5.31		2- 1/8		S 89-	E	1.79	S	6.64	E	.51
1000	999.82	7.91		2- 5/8		N 85-	E	1.65	S	10.19	E	.56
1100	1099.69	10.66		3- 1/8		N 80-	E	.99	S	15.17	E	.56
1200	1199.52	13.49		3- 1/2		N 77-	E	.16	N	20.84	E	.41
1300	1299.32	16.49		3- 3/4		N 76-	E	1.53	N	27.01	E	.26
1400	1399.10	19.90		4-		N 81-	E	2.76	N	33.65	E	.32
1450	1448.98	21.79		4-		N 82-	E	3.25	N	37.10	E	0
				-		-						
				-		-						
				-		-						
				-		-						
				-		-						

THE HORIZONTAL DISPLACEMENT AT THE DEPTH  
OF 1450 EQUALS 37.24' AT N 85° E

WHITE - CUSTOMER FILE  
YELLOW - DISTRICT FILE  
PINK - DIVISION

02603098 P.01  
03/27/1988 07:46 EXXON LEE FAMILY #1

TOTAL P.01

b

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [ ] 1b. TYPE OF COMPLETION: NEW WELL [x] WORK OVER [ ] DEEP-EN [ ] PLEG BACK [ ] DIFF. RESVR. [ ]

2. NAME OF OPERATOR Exxon Corp.

3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, Tx 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\* At surface 2335' FNL & 2052 FWL of Sec 17 (SENW) At top prod. interval reported below At total depth 2592' FWL & 2298' FSL of sec 17

14. PERMIT NO. 43-043-30290 DATE ISSUED 2-24-88

15. DATE SPUDDED 3-22-88 16. DATE T.D. REACHED 6-3-88 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, REB, BT, OR, ETC.)\* GR 6756.5 19. ELEV. CASINGHEAD N/A

20. TOTAL DEPTH, MD & TVD MD-11097, TVD-11008 21. FLUC. BACK T.D., MD & TVD 10300 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* None

25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MSFL, SDT, LDT/CNL, FMS, WST 27. WAS WELL CORED No

29. CASING RECORD (Report all strings set in well) Table with columns: CASING-SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD and 30. TUBING RECORD Tables with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

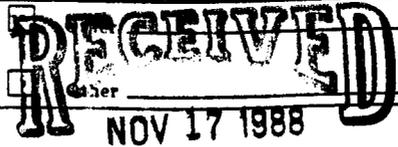
35. LIST OF ATTACHMENTS LOGS, Directional Survey, form OGC-8-X

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Stephen Johnson TITLE Administrative Specialist DATE 11-11-88

\*(See Instructions and Spaces for Additional Data on Reverse Side)

5. LEASE DESIGNATION AND SERIAL NO. Fee 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME U.P.R.C. 9. WELL NO. 1 10. FIELD AND POOL, OR WILDCAT Undesignated 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 17, T2N, R7E 12. COUNTY OR PARISH Summitt 13. STATE Utah



DIVISION OF OIL, GAS & MINING

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

\*Item 32 Cont.

CIBP @ 10686, Cap w/ 1 sx cmt.

10574-10602, Acidized w/ 2503 Gal of 28% HCL

CIBP @ 10675

SQZ perfs @ 10602-10574 w/ 500 sx CLG

10398-10541, Acid-Frac w/ 10000 Gal 28% HCL

CIBP @ 10565

10398-10541, Acidize w/ 95 GAL of 28% HCL

CIBP @ 10300, Cap w/ 3 sx cmt.

**37. SUMMARY OF POROUS ZONES:**  
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Nugget	MD 10956 TVD 10867	Md 11000 TVD 10911	Water
Twin Creek	MD 10826 TVD 10737	MD 10903 TVD 10814	Water
Twin Creek	MD 10574 TVD 10486	MD 10602 TVD 10514	DRY
Twin Creek	MD 10398 TVD 10310	MD 10541 TVD 10453	Dry

**38. GEOLOGIC MARKERS**

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Bear River	3726	3691
Kelvin	4230	4184
Stump	6367	6297
Preuss	6910	6836
Preuss Salt	8813	8728
Twin Creek	9446	9360
Gypsum Spring	10917	10828
Nugget	10947	10858

1-TAS

3-AST

SLS

GLH

RUF

OIL AND GAS

MICROFILM

FILE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

FREE

6. INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

NOV 23 1988

1. OIL WELL  GAS WELL  OTHER Monthly Drilling Report

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR  
Exxon Corporation Attn: Permits Supervisor

8. FARM OR LEASE NAME

U.P.R.C.

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, TX 79702

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

10. FIELD AND POOL, OR WILDCAT  
Undesignated

2335' FNL & 2052' FWL of Sec. 17 (SEW)  
BHL (Approx) 2100' FSL & 2500' FEL of Sec. 17 (NESW)

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

Sec. 17, T2N, R7E

14. PERMIT NO.  
43-043-30290

15. ELEVATIONS (Show whether DP, RT, OR, etc.)  
GR 6756.5

12. COUNTY OR PARISH 13. STATE

Summit

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

Monthly Drilling Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

10-1 thru 10-9 Well SI  
10-10 Set CIBP @ 10565.  
10-11 Tested CIBP to 3000# - OK, Perfed: 10536 - 10541, 10514 - 10526, 10438 - 10496, 10398 - 10428, 2spf, 218 shots.  
10-12 & 13 Swab.  
10-14 Acidized w/ 9500 gal of 28% HCL. Swab.  
10-15 Swab  
10-16 SI  
10-17 Swab  
10-18 Set CIBP @ 10300' and cap w/ 3 sx cmt. Test to 2000# - OK. Well temporarily abandon.

This well has uphole potential for use as a water disposal well. This use is being evaluated.

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

SIGNED Stephen Johnson

TITLE Administrative Specialist

DATE 11-02-88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

TA  
43-043-30290

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number U.P.R.C. #1  
Operator Exxon Corporation Address P.O. Box 1600, Midland, TX 79702  
Contractor Adcor Drilling, Inc. Address 1625 Broadway, Ste. 2180, Denver, CO  
80202  
Location SE 1/4 NW 1/4 Sec. 17 T: 2N R. 7E County Summit

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	6271	6280	205 SIDPP with 8.7 ppg mud weight*	Fresh
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

\* Estimated Bottom Hole Pressure of 3,042 psi (9.3 ppg Pore Pressure)

Formation Tops

Flow occurred in the Kelvin Formation  
Kelvin formation occurs from 6278' to 6288' (log meas.)

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

**EXXON** COMPANY, U.S.A.  
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT  
SOUTHWESTERN DIVISION

**RECEIVED**  
JAN 30 1989

DIVISION OF  
OIL, GAS & MINING

January 26, 1989

U.P.R.C. #1  
Section 17, T2N, R7E  
Summit County, Utah  
43-043-30290

Utah Oil & Gas Conservation Commission  
355 West North Temple  
State Office Building  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attached is the directional survey you requested for the captioned well. If I can be of further assistance, please call me at (915) 688-7548.



Stephen Johnson  
Administrative Specialist

SJJ:jmf  
Attachment

ORIG REC'D JAN 89  
DUP REC'D NOV 91  
ORIG FILED WITH LOSS  
DUP IN FILE  
ULC-DOG M  
11-20-91

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File U.P.R.C. #1

Suspense  
(Return Date) 2/1/89  
(To - Initials) A.W.S.

Other  
\_\_\_\_\_  
\_\_\_\_\_

(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43-043-30290

1. Date of Phone Call: 1/12/89 Time: 10 AM

2. DOGM Employee (name) Adlene S. (Initiated Call   
Talked to:

Name Bruce (Initiated Call  - Phone No. (801) 789-0338  
of (Company/Organization) Edson (Vernal)

3. Topic of Conversation: Directional Drill Survey -

4. Highlights of Conversation: He will make some calls and have it sent to us.

8/30/89 - Requesting Directional Drill survey. Left message to return call. Bruce returned call will contact the engineers and have them mail survey.

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

9-24-90

~~9-21-90~~

Route original/copy to:

Well File UPRC #1

Suspense  
(Return Date) 9-22-90  
(To - Initials) JLC

Other

(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43 043 30290

1. Date of Phone Call: 2-23-90 Time: 11:00

2. DOGM Employee (name) Vicky (Initiated Call   
Talked to:

Name Bruce (Initiated Call  - Phone No. (801) 789-0338

of (Company/Organization) EXXON (VERNAL)

3. Topic of Conversation: REQUEST DIRECTIONAL DRILL  
SURVEY.

4. Highlights of Conversation: Bruce said he spoke to  
Arlene several times w: above. He also  
called the engineering dept to have them send  
survey. I told him we needed this per the  
2-24-88 Approval letter as underlined. He  
said maybe we didn't have it because  
they are still working on the well to  
evaluate findings on the well. They are now  
on hold awaiting further options. They are  
shut down at this point for further  
study. He will contact the engineers  
again and I told him I would  
suspense this for a few months and  
then get back with him.

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:  
 Well File WPRC #1       Suspense  
(Return Date) \_\_\_\_\_       Other  
(Location) Sec 17 Twp 2N Rng 7E      (To - Initials) \_\_\_\_\_  
(API No.) 43-043-30290      \_\_\_\_\_

1. Date of Phone Call: 9/24/91      Time: 9:30 AM

2. DOGM Employee (name) Frank Matthews      (Initiated Call )  
Talked to:  
Name Steven Johnson (Initiated Call ) - Phone No. 915/688-6100  
of (Company/Organization) Exxon

3. Topic of Conversation: Directional Survey

4. Highlights of Conversation: Mr. Johnson said he would pull file & check on well to see if it was indeed directional. Will call or write once he has checked on file.

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File WPRC #1

Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

Other \_\_\_\_\_

(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43-043-30290

1. Date of Phone Call: 9/24/91 Time: 9:30 AM

2. DOGM Employee (name) Frank Matthews (Initiated Call   
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Name Steven Johnson (Initiated Call  - Phone No. 915/688-6100  
of (Company/Organization) Exxon

3. Topic of Conversation: Directional Survey

4. Highlights of Conversation: Mr. Johnson said he would pull file & check on well to see if it was indeed directional. Will call or write once he has checked on file.

10-21-91  
WPRC  
J. Johnson



Division of Oil, Gas and <sup>g</sup>  
PHONE CONVERSATION DOCUMENTATION FORM

~~2-27-91~~  
~~7-26-90~~  
~~9-24-90~~ 9-24-91  
~~9-31-90~~

Route original/copy to:  
 Well File UPRC #1  
(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43 043 30290

Suspense  
(Return Date) 6-22-90  Other  
(To - Initials) DLG

1. Date of Phone Call: 2-23-90 Time: 11:00

2. DOGM Employee (name) Vicky (Initiated Call   
Talked to:  
Name Bruce (Initiated Call  - Phone No. (801) 789-0338  
of (Company/Organization) EXXON (VERVAL)

3. Topic of Conversation: REQUEST DIRECTIONAL DRILL SURVEY.

4. Highlights of Conversation: Bruce said he spoke to Arlene several times re: above. He also called the engineering dept to have them send survey. I told him we needed this per the 2-24-88 Approval letter as underlined. He said maybe we didn't have it because they are still working on the well to evaluate findings on the well. They are now on hold awaiting further options. They are shut down at this point for further study. He will contact the engineers again and I told him I would suspense this for a few months and then get back with him.

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[ ] Well File U.P.R.C. #1  
(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43-043-30290

Suspense ~~\_\_\_\_\_~~  Other  
(Return Date) 3/1/89  
(To - Initials) K.W.S.

1. Date of Phone Call: 1/12/89 Time: 10 AM

2. DOGM Employee (name) Alan S. (Initiated Call   
Talked to:  
Name Bruce (Initiated Call  - Phone No. (801) 789-0338  
of (Company/Organization) Edson (Vernal)

3. Topic of Conversation: Directional Drill Survey -

4. Highlights of Conversation: He will make some calls and have it sent to us.

8/30/89 - Requesting Directional Drill survey. Left message to return call. Bruce returned call will contact the engineers and have them mail survey.

12/14/89 - (Denny) will make some calls & see if he can get the survey.

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File U.P.R.C. #1

Suspense  Other

(Location) Sec 17 Twp 2N Rng 7E  
(API No.) 43-043-30290

(Return Date) 2/17/90  
(To - Initials) A.W.S.

1. ]

Time: 10 AM

2. ]

2-22-90

(Initiated Call )

Dow

- Phone No. (801) 789-0338

3. ]

I don't know why Arlene was requesting this, shd I continue to follow-up? I didnt think we could or should request this type info.

Survey -

4. ]

shd some calls had

9

see attached

still working on well to evaluate findings well on hold waiting further options.

Can get the survey.

shut down for further study.

~~AS W.S.~~

February 24, 198

N0420

Exxon Corporation  
P. O. Box 1600  
Midland, Texas 79702

Gentlemen:

Re: U.P.R.C. #1 - (Surf.) SE NW, (BHL) NW SE, Sec. 17, T. 2N, R. 7E  
(Surf.) 2335' FNL, 2052' FWL, (BHL) 2100' FSL, 2500' FEL  
Summit County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. The reserve pit shall be lined with tear resistant plastic liner with a minimum thickness of 12 mil.
2. After excavation and lining of reserve pit and prior to placing fluids in the pit, the operator shall notify DOGM to allow inspection of pit liner.
3. Submittal of directional drilling data upon completion of drilling operations to properly ascertain the location of the producing formation.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

an equal opportunity employer



**WESTERN ENVIRONMENTAL SERVICES AND TESTING INC.**

ATTACHMENT #7b

6756 West Uranium Road  
Casper, Wyoming 82604  
307/234-5511

76 Imperial Drive, Unit I  
Evanston, Wyoming 82930  
307/789-6420

Client: Union Pacific Resource Company  
Address: P.O.Box 7, Fort Worth, TX 76101  
Attention: Fred McDougal

Lab #: 93-5116

Analyzed By: KB,KAH,GLH      Date Submitted: 10-11-93      Date Analyzed: 10-13-93

Operator: UPRC  
Well #: 19-2x-7e  
Field: Elkhorn  
County: Summit  
State: Utah

Sample Date: 10-07-93  
Location:  
Formation: Twin Creek  
Interval:  
Sample Point: Wellhead

CATIONS	mg/l	meq/l	ANIONS	mg/l	meq/l
Sodium (Na)	24412	1061.85	Chloride (Cl)	46485	1311.28
Potassium (K)	713	18.24	Sulfate (SO4)	752	15.66
Calcium (Ca)	4738	236.43	Bicarbonate (HCO3)	151	2.47
Magnesium (Mg)	562	46.26	Carbonate (CO3)	0	0.00
Iron (Fe)	10.8	0.39	Hydroxide (OH)	0	0.00
Total Cations .....	1363.17		Total Anions .....	1329.41	

Total Dissolved Solids, mg/l                      88356  
Resistivity @ 68 F, ohm-meters                      0.124  
Observed pH, units    6.29

*Neil L. Rasmussen*  
Laboratory Supervisor

the analysis, opinions or interpretations contained in this report are based on observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Western Environmental Services and Testing, Inc. Western Environmental assumes no responsibility and makes no warranty or representations, expressed or implied as to the productivity, proper operations, or profitableness however of any oil, gas, coal, mineral, property, well, sand, soil or any other application or connection with which this report is used or relied upon for any reason

## WATTON CANYON

## WATER ANALYSIS

Sample from Twin Creek									
Well	3-1	4-1	3-5	9-1	N.S. 2	N.S. 1	11-1	Average	
Number of Samples	1	1	1	4	4	1	1		
Na	62389	36367	14459	17609	42206	49424	35171	36160	
K		1641	5978		3125	2031	8320	3711	
Ca	24048	10140	12144	2826	17094	23807	12525	15150	
Mg	7275	1545	2530	182	1995	2397	1290	1947	
SO4	144	529	721	1298	289	240	769	529	
Cl	134362	79504	55993	31489	104823	126986	86986	90851	
HCO3	43800	183	61	183	37	30	304	183	
TDS	272300	129764	91867	53624	168789	204897	145255	148114	

\* concentrations are in PPM (or mg/l)

NUGGET  
WATER ANALYSIS

Well	3-9	2-1	1	2-3	3-1	3-6	3-5	3-4	N.S.	1	Average
Number of Samples	3	5	2	2	1	3	2	3	1		
Na	13931	17861	10574	17907	11609	11747	9862	7724	9724	12321	
K		781	586		234		547	469	391	508	
Ca	1283	1844	942	1984	002	822	741	681	321	1016	
Mg	170	268	109	182	24	182	97	61	122	134	
SO4	1972	1250	1827	2260	2164	2308	1587	1298	3078	1972	
Cl	22163	30071	17376	29716	17411	18156	15745	12128	13688	19610	
HCO3	426	304	487	426	730	365	608	487	487	487	
TDS	40480	52220	31550	52480	32980	33610	28824	24284	27601	36000	

\* concentrations are in PPM (or mg/l)

**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

**INTER-OFFICE CORRESPONDENCE**

TO: C.D. Minzenmayer  
FROM: F.W. McDougal *FM*

OFFICE: FTW/3706  
November 3, 1993

Proposed SWD Operations - UPRC 17-1  
Elkhorn Field, Summit County, Utah

**Purpose**

The Overthrust team is converting the UPRC 17-1 to SWD to handle water generated by production operations on the UPRR 19-2X and the Newton Sheep 18-1. Currently we are hauling water from the 19-2X to Pineview for disposal and the Judd 34-1H for drilling, and Exxon is hauling from the 18-1 to a public disposal pit. We intend to eliminate the need to haul water by injecting it into the Nugget formation in the 17-1.

**Water Source**

The water to be injected in the UPRC 17-1 will be mainly produced water from the Twin Creek formation, minor amounts of water from other operations (such as killing and stimulating) will occasionally be disposed of in the 17-1. Subsequent development wells in the area could be added to the SWD system.

**Facilities**

We are designing our facilities for 4000 BPD at 2500 psi but our anticipated operating conditions will be less than 2500 psi and 1500 BPD. Our facilities will include:

- 2-1000 bbl, fiberglass lined, steel tanks. One tank will be used as a gun barrel for oil skimming and the other will serve as a clear water storage tank. The main water storage facilities will be located at the producing well batteries.
- An electrically powered, positive displacement pump and the associated transformer and switch board. Electricity might be temporarily generated onsite until powerlines can be ran to the location.
- Wellsite automation to some degree. The level of automation has not be determined yet and will probably be installed after the well is in use.
- A 4" low pressure fiberglass flowline from the 18-1. The line will run uphill from the 18-1 then over to the 17-1 and completely avoid the slide areas.

## **Water Analysis**

I have attached a "typical" Twin Creek water analysis as well as the actual water analysis for the UPRR 19-2X. The "typical" Twin Creek water analysis is probably more representative of what we will be disposing of in the UPRC 17-1 SWD. Both the 19-2X and the 18-1 produced waters have been dramatically effected by the lost circulation during drilling operations on the 19-2X.

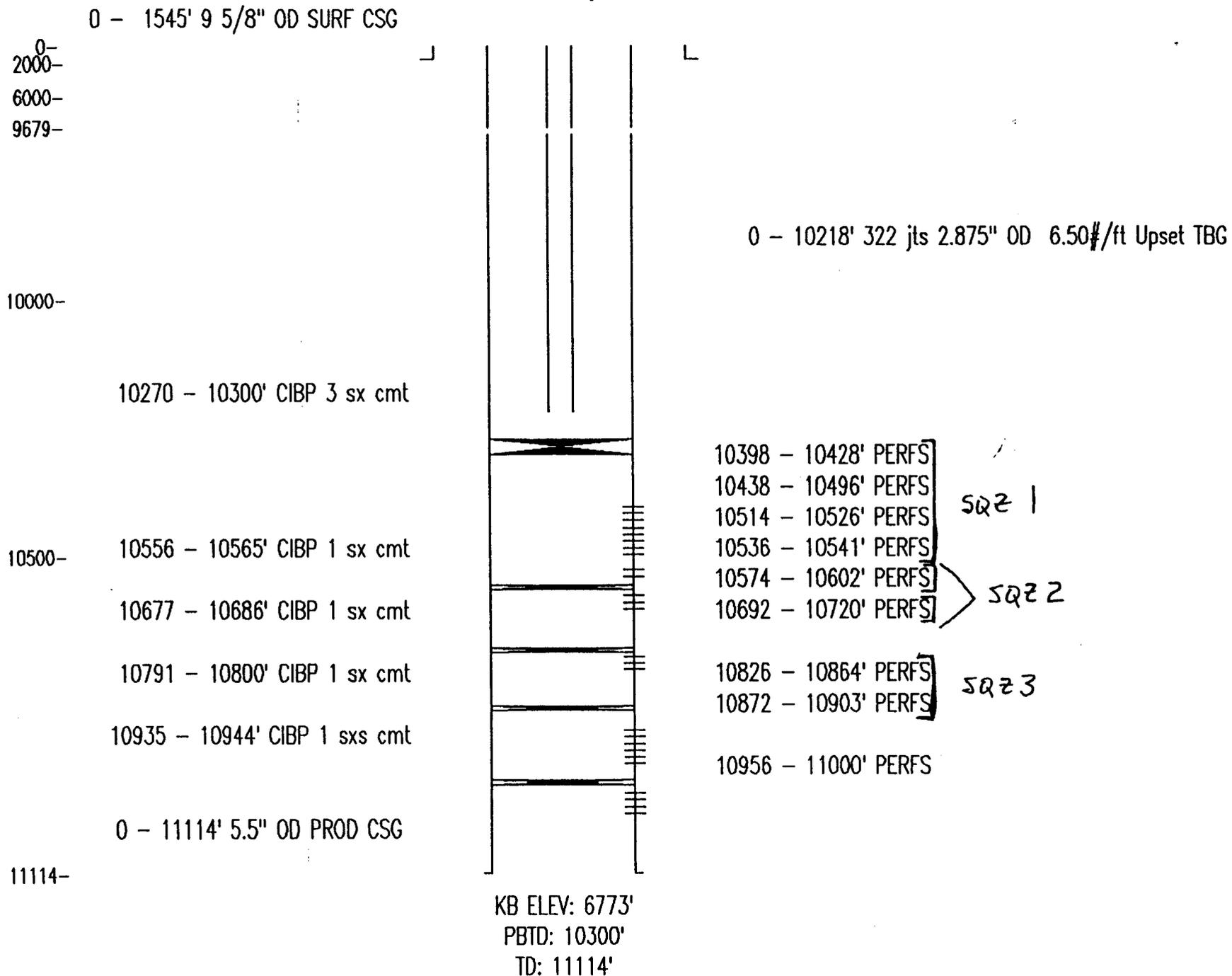
## **UPRC 17-1 History**

The UPRC 17-1 was drilled as a delineation well by Exxon in 1988. The Nugget and Twin Creek were tested extensively and proved to be wet. The well was temporarily abandoned in October 1988 and has remained shut-in since with no upside potential.

cc: Central File, Active Wellfile, Pete Straub - Evanston, WY,

c:\wp51\mem\UP17-1re.mem

UPRC 17-1  
17-2N-7E  
Summit County, Utah



**UPRC 17-1**  
 NW/4 Sec 17, T2N-R7E  
 Summit County, Utah

October 28, 1993

**Convert Well to Salt Water Disposal****Well Data:**

TD 11,114', PBD 10,270' (est)  
 5 1/2"/20#/SOO-90 @ 1315', 20#/C95 @ 1921', 20#/L80 @ 3055', 17#/L80 @ 8440', 23#/P110 @ 9936', & 20#/L80 @ 11,112'

**Note:** See attached wellbore schematic for additional well data.

1. MIRU WSU for 24 hr ops. Spot pump, pit & pwr swivel. Dig earth pit to take cmt rtns in. ND WH, NU BOP. Circ hole w/ prod wtr through kill string. POOH & stand back kill string.
2. The following table details the CIBPs which have to be drilled out and the test perfs which have to be sqz'd. Use the table as follows:
  1. PU 4 1/2" blade bit & 4-3 1/8" DCs, drill out the cmt capped CIBP(s) @ "Φ out CIBP", tag PBD @ "Btm CIBP". SI pipe rams & est pump in rate, report to engineering.
  2. POOH w/ bit & DCs. PU sqz pkr, RIH & set @ "Sqz Pkr". M&P "Sqz Vol", disp t/ EOT, slow down to 1/2 BPM as cmt enters perfs, stage as necessary. Sqz must test to 1000 psi. Repeat sqz as necessary (NOTE: Exxon used 1/4 per sx cellophane flakes and 10# per sx Koalite very effectively on 10,574'-602').
  3. Repeat for next set. Test last sqz to 1000 psi for 30 min while recording press on chart. Drill out last CIBP and shoe jt to 11,100'. POOH & LD WS & collars.

# out CIBP	Top Perf	Btm Perf	Btm CIBP	Sqz Pkr	Sqz Vol
10,300	10,398	10,541	10,565	9,948	40 sxs
10,565 10,686	10,574	10,720	10,800	10,124	40 sxs
10,800	10,826	10,903	10,944	10,376	30 sxs
10,944	10,956	11,000			0 sxs

3. MIRU WL & packoff. Run GR/CCL/CBL PBD to TOC. Perf 11,020'-100' with a 3 1/8" csg gun, 4 SPF, 15 gram charges, total of 320 holes. RDMO WLU.
4. PU Baker Model R, double grip, nickel plated pkr, & RIH on 2 7/8" N80 6.5# DUOLINE 8rd EUE. Spaceout & set pkr @ 10,800' with 20M# compression. ND BOP NU WH. Break down perfs & conduct injection test

with rig pump. ACDZ as necessary.

5. Notify Dan Jarvis (801)538-5340 w/ State of Utah 48 hours before test. Test pkr, tbg & csg to 1000 psi for 15 min. Put well on injection.

cc: M.P. Staub (Evanston), P.R. Smith (Pineview), Central File  
c:\wp51\pro\UPRC17-1.PRO

Mon Oct 25 16:30:37 1993

1> range of w is twincrktops

1> retrieve (w.apino,w.depth,w.tfname,w.co,w.tfcode)

2> where w.apino="4304330290"

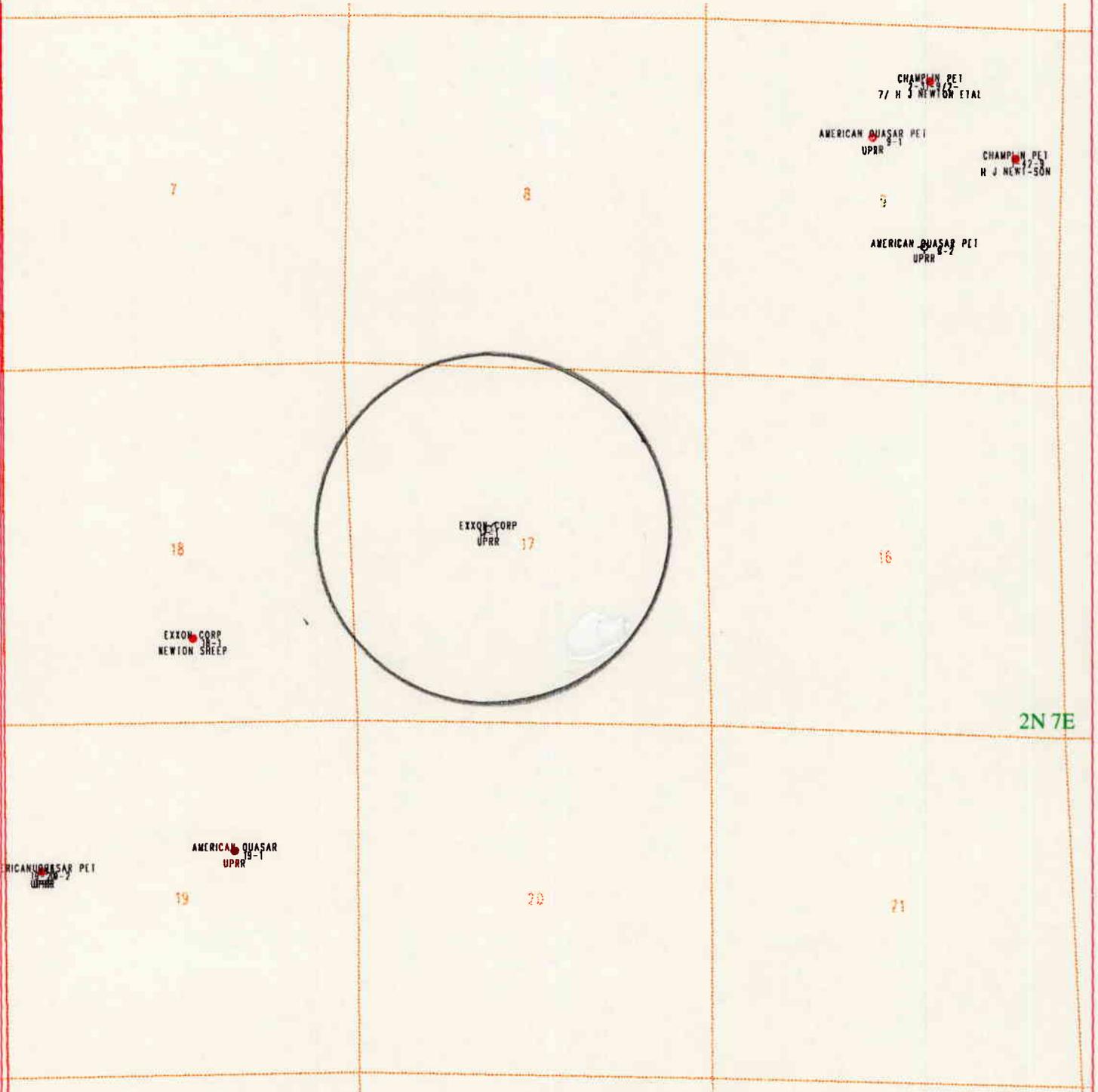
apino	depth	tfname	co	tfcode
4304330290	8813.000		PI	000SALT
4304330290	10947.000	NUGGET	PI	551NGGT
4304330290	10917.000	GYP SUM SPRINGS	PI	552GPSP
4304330290	6910.000	PREUSS	PI	553PRSS
4304330290	6367.000	STUMP	PI	553STMP
4304330290	9446.000	TWIN CREEK	PI	553TCRK
4304330290	3726.000	BEAR RIVER	PI	602BRRV
4304330290	4230.000		PI	602KLVN
4304330290	10947.000	NUGGET	UPR	551NGGT
4304330290	10341.000	WATTON CANYON	UPR	553WTCN
4304330290	6773.000	KB	UPR	000KB

(11 rows)

End of Request

# UPRC 17-1 Sec17,2N-7E Summit, Utah

ATTACHMENT #2



**Union Pacific Resources**

A Subsidiary of Union Pacific Corporation



via FEDERAL EXPRESS

November 10, 1993

Utah Board of Oil, Gas, and Mining  
Suite 350, 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180-1203

**RECEIVED**

NOV 12 1993

**DIVISION OF  
OIL, GAS & MINING**

RE: **Application for Salt-Water Disposal Well  
U.P.R.C. 17-1  
NW/4 Section 17-2N-7E  
Summit County, Utah**

Gentlemen:

Enclosed you will find Union Pacific Resources Co. (UPRC) application to convert the above-mentioned well to a salt-water disposal well.

This application contains the following information in accordance with Rule 615.5:

1. Application for Injection Well - UIC Form 1 which shows:
  - a. name, description, and depth of disposal interval
  - b. estimated maximum pressure
  - c. average daily rate of disposal in barrels per day
2. Attachment 1.a & 1.b - surface, working interest and/or mineral owners in a 1/2-mile radius and affidavit of notification
3. Attachment 2 - 9-spot map of area, indicating the area of interest
4. Attachment 3 - representative log of reservoir & tops which will be affected by SWD
5. Attachment 4 - engineer's conversion procedure
6. Attachment 5 - current and proposed wellbore schematic
7. Attachment 6 - proposed SWD operations
8. Attachment 7.a & 7.b - water analysis for the Nugget formation
9. Attachment 8 - water analysis for the Twin Creek formation

Should additional information be required, please direct questions and/or correspondence to the undersigned at the letterhead address or by calling (817) 877-6530.

Sincerely yours,

UNION PACIFIC RESOURCES COMPANY

*Cami Minzenmayer*

Cami Minzenmayer  
Regulatory Analyst

:CM

attachments

Schlumberger

SIMULTANEOUS  
DUAL LATEROLOG  
MICRO-SFL

COUNTY SUMMIT  
FIELD WILDCAT  
LOCATION 2335' FNL 2052' FWL  
WELL 84L-3008' FNL 2572' FNL  
U.P.R.C. #1  
COMPANY EXXON USA

COMPANY EXXON USA  
WELL U.P.R.C. #1  
FIELD WILDCAT  
COUNTY SUMMIT STATE UTAH

LOCATION 2335' FNL 2052' FWL  
*Final Print*

Other Services:  
DLL/MSFL  
SDT  
LDT/CNT  
FMS  
SHDT  
WST

API SERIAL NO. 43043 30290  
SECT. 17 TWP. 2N RANGE 7E

Permanent Datum GL Elev. 6751.0 F Elev.: K.B.8773.  
Log Measured From KB 22.0 F above Perm. Datum D.F.8772.  
Drilling Measured From KB G.L.8751.

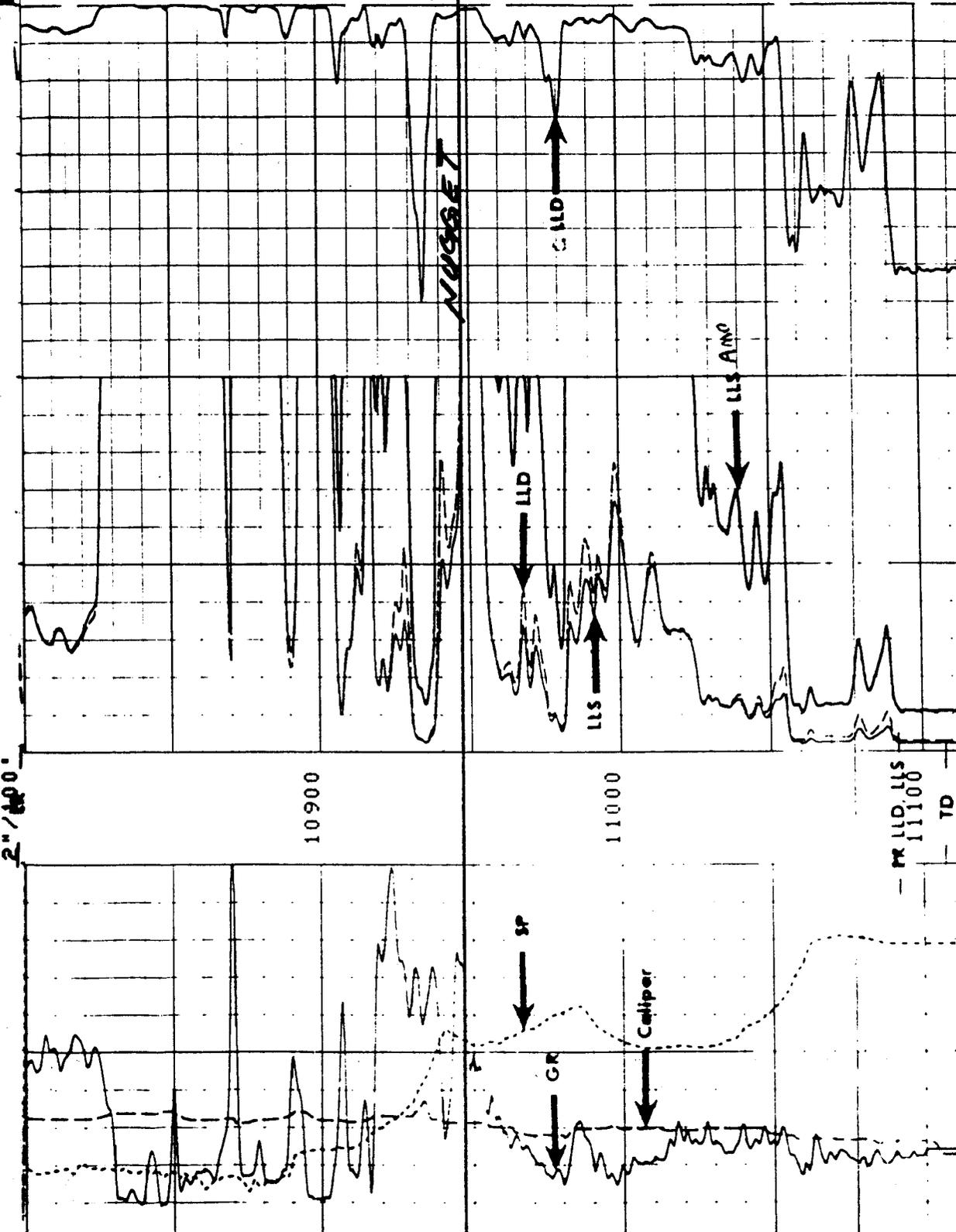
Date 04-JUN-88  
Run No. ONE  
Depth Driller 11114.0 F  
Depth Logger (Schl) 11108.0 F  
Btm. Log Interval 11108.0 F  
Top Log Interval 1500.0 F  
Casing-Driller 9 5/8 @1543.0 F  
Casing-Logger 1545.0 F  
Bit Size 8 3/4  
Type Fluid In Hole SWM  
Dens. 10.40 LB/G Visc. 41.0 S  
pH 9.0 Fld. Loss 8.8 C3  
Source of Sample TANK  
Rm @ Meas. Temp. .058 OHMM @ 63.0 DEGF  
Rmf @ Meas. Temp. .045 OHMM @ 63.0 DEGF  
Rmc @ Meas. Temp. .086 OHMM @ 63.0 DEGF  
Source: Rmf Rmc MEAS CALC  
Rm @ BHT .021 OHMM @ 188. DEGF  
TIME Circulation Ended 3 JUN 88 7:30 PM  
Logger on Bottom 4/6/88 0323 HRS.  
Max. Rec. Temp. 188. DEGF  
Equip. Location 8190 EVANSTON  
Recorded By EGEMO/RICHTER

**TIGHT  
HOLE**

CEMENT VOLUME = 1477.51 F3  
HOLE VOLUME = 1706.64 F3  
FROM 2932.0 TD 1543.0 FEET

LLS (OHMM)	20.000	CLLD(MMHQ)	0.0
LLS (OHMM)	100.00		500.00
LLD (OHMM)	100.00		500.00
LLS (OHMM)	0.0		0.0
LLS (OHMM)	0.0		0.0
LLD (OHMM)	0.0		0.0
CALI(IN)	16.000		0.0
GR (GAPI)	150.00		0.0
SP (MV)	0.0		0.0
	-100.0		0.0

CP 30.4 FILE 11 05-JUN-88 09:50  
INPUT FILES 7 11  
DATA ACQUIRED 05-JUN-88 07:14  
NA



**UPRC 17-1**  
**Surface Owner, Working Interest and/or Mineral Owners**  
**1/2 mile radius**

Surface Owner	Working Interest Owners	Mineral Owners
<p><b>Section 8-2N-7E:</b>  <b>S/2 S/2</b></p> <p>Edward L. Gillmor  3819 South 2000 East  Holladay, UT 84109</p>	<p>Conquest Expl. Co.  1331 Lamar, Suite 900  Houston, TX 77010-3088  Attn: Jane Pereski</p> <p>Geodyne Resources, Inc.  Sampson Plaza  Two West Second Street  Tulsa, OK 74103</p> <p>N. Central Oil Corp.  6001 Savoy Drive  Suite 600  Houston, TX 77036</p> <p>Amoco Production Co.  P.O. Box 800  Denver, CO 80201  Attn: Greg Shewmaker</p>	<p>Bass Enterprises  Production Co.  1211 Ft. Worth Nat'l Bank  Bldg.  Fort Worth, TX 76102</p> <p>Newton Sheep Company  a limited partnership  3744 South 6400 West  Salt Lake City, UT 84120</p> <p>Bow Valley Coal Resources  Inc.  1700 Broadway, Suite 900  Denver, CO 80290</p>

328-2886

<p><b>Section 18-2N-7E: All</b></p> <p>Edward L. Gillmor 3819 South 2000 East Holladay, UT 84109</p>	<p>UPRC</p> <p>Exxon Corporation P.O. Box 1600 Midland, TX 79702-1600 Attn: Robert Fields</p> <p>Conquest Exploration Co.</p> <p>Oryx Energy Co. 13155 Noel Rd. Dallas, TX 75240</p> <p>N. Central Oil Corp.</p> <p>EM Nominee Partnership c/o Hallwood Energy Co.</p> <p>4582 S. Ulster Pkwy. St. Suite 1700 Denver, CO 80220 Attn: Kathleen Volk</p> <p>HS Resources, Inc. 216 16th St., 14th Floor Denver, CO 80202</p> <p>Amoco Production Co.</p>	<p>Bass Enterprises Production Co. Newton Sheep Company Bow Valley Coal Resources Inc.</p>
<p><b>Section 20-2N-7E: N/2</b></p> <p>Edward L. Gillmor 3819 South 2000 East Holladay, UT 84109</p>	<p>Conquest Exploration Co. N. Central Oil Corp. EM Nominee Partnership HS Resources, Inc. Amoco Production Co.</p>	<p>Bass Enterprises Production Co. Newton Sheep Company</p>

<b>Edward L. Gillmor</b> <b>3819 South 2000 East</b> <b>Holladay, UT 84109</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 539	
<b>Conquest Expl. Co.</b> <b>1331 Lamar, Suite 900</b> <b>Houston, TX 77010-3088</b> <b>Attn: Jane Pereski</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 540	
<b>Geodyne Resources, Inc.</b> <b>Sampson Plaza</b> <b>Two West Second Street</b> <b>Tulsa, OK 74103</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 541	
<b>N. Central Oil Corp.</b> <b>6001 Savoy Drive, Suite 600</b> <b>Houston, TX 77036</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 595	
<b>Amoco Production Co.</b> <b>P.O. Box 800</b> <b>Denver, CO 80201</b> <b>Attn: Greg Shewmaker</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 596	
<b>Bass Enterprises Production Co.</b> <b>1211 Ft. Worth Nat'l Bank Bldg.</b> <b>Fort Worth, TX 76102</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 597	
<b>Newton Sheep Company</b> <b>3744 South 6400 West</b> <b>Salt Lake City, UT 84120</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 598	
<b>Bow Valley Coal Resources</b> <b>1700 Broadway, Suite 900</b> <b>Denver, CO 80290</b>  <b>UPRC 17-1 (CM)</b>	P 374 613 599	

<p><b>Exxon Corporation</b>  <b>P.O. Box 1600</b>  <b>Midland, TX 79702-1600</b>  <b>Attn: Robert Fields</b></p> <p><b>UUPRC 17-1 (CM)</b></p>	<p>P 374 613 600</p>	
<p><b>Oryx Energy Co.</b>  <b>13155 Noel Rd.</b>  <b>Dallas, TX 75240</b></p> <p><b>UUPRC 17-1 (CM)</b></p>	<p>P 374 613 601</p>	
<p><b>EM Nominee Partnership</b>  <b>c/o Hallwood Energy Co.</b>  <b>4582 S. Ulster Pkwy. St.Suite 1700</b>  <b>Denver, CO 80220</b>  <b>Attn: Kathleen Volk</b>  <b>UUPRC 17-1 (CM)</b></p>	<p>P 374 613 602</p>	
<p><b>HS Resources, Inc.</b>  <b>216 16th St., 14th Floor</b>  <b>Denver, CO 80202</b></p> <p><b>UUPRC 17-1 (CM)</b></p>	<p>P 374 613 603</p>	
	<p>P 374 613 604</p>	
	<p>P 374 613 605</p>	
	<p>P 374 613 606</p>	
	<p>P 374 613 607</p>	

**Affidavit of Notification of Interested Parties**

I, Cami Minzenmayer, as Regulatory Analyst for Union Pacific Resources Co., do solemnly swear that the attached list of surface, working interest and/or mineral owners, for the UPRC 17-1 have been notified via certified mail on November 10, 1993.

The attached list indicates the "Certified Mail Tracking Number" for reference.

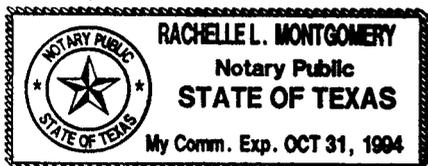
Cami Minzenmayer  
Cami Minzenmayer  
Regulatory Analyst

The State of Texas  
County of Tarrant

Before me, a Notary Public, on this day personally appeared Cami Minzenmayer known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 10th day of November, A.D. 1993.

(SEAL)



Rachelle L. Montgomery  
Notary Public, State of Texas  
Rachelle L. Montgomery  
(Print name of Notary Public)

My commission expires the 31<sup>st</sup> day of October, 1994.



**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

via Federal Express

November 17, 1993

Utah Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 N. Temple - 3 Triad Center, Suite 350  
Salt Lake City, Utah 84180  
Attn: Mr. Dan Jarvis

RE: UPRC 17-1  
SWD application  
NW/4 Sec. 17-2N-7E  
Summit County, Utah

Dear Dan,

Pursuant to our conversation on November 16, please find attached the following information requested to complete Union Pacific Resources' application for salt-water disposal:

- a. a representative Nugget water analysis
- b. proof of fresh water protection
- c. confining intervals which prevent vertical migration of injected water
- d. information to support the Nugget fracture pressure requested

Please notice the changes on UIC Form 1, proposed injection interval is 10956'-11100' and the proposed maximum injection is 10,000 BWPD.

If any additional information is needed, please contact myself at (817) 877-6530 or Fred McDougal at (817) 877-7887.

Sincerely,

UNION PACIFIC RESOURCES COMPANY

*Cami Minzenmayer*

Cami Minzenmayer  
Regulatory Analyst

attachments

RECEIVED

NOV 18 1993

DIVISION OF  
OIL, GAS & MINING

Union Pacific Resources Company  
P.O. Box 7  
Fort Worth, Texas 76101-0007  
817 / 877-6000  
TWX 910 893 5024  
Telex 758-447



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

## INTER-OFFICE CORRESPONDENCE

TO: C.D. Minzenmayer  
FROM: F.W. McDougal

OFFICE: FTW/3706  
November 17, 1993

Supplemental Information - UPRC 17-1 SWD Application  
Elkhorn Field, Summit County, Utah

### Representative Nugget Water Analysis

I have attached our most recent Nugget water analysis. It was taken on produced water from the UPRR 3-2, Pineview field, approximately 13,300' from the UPRC 17-1. The UPRR 3-2 was recently recompleted to the Nugget, 9600'-9726'. This is a representative Nugget water sample.

### Fresh Water Protection

The fresh water intervals in the UPRC 17-1 are isolated from the injection interval by approximately 5800' of cement in the 5 1/2" casing/hole annulus. The base of the fresh water corresponds to the top of the Kelvin formation as per telecom with Dan Jarvis, Utah Division of Oil, Gas & Mining, November 17, 1993. The Kelvin top in this well is 4230'. The top of the cement in this well is estimated to be 5300' based on a reported cement volume of 2900 sacks Class H (assumed yield of 1.18 ft<sup>3</sup>/sack) and the *Integrated Cement Volume* calculated from the MSFL derived caliper log and assumed pipe size of 5 1/2".

### Confining Intervals which prevent Vertical Migration of Injected Water

The Nugget is bounded by the Gypsum Springs (29' thick in the UPRC 17-1, red shale) above and the Ankareh (414' thick in the UPRR 3-2, Deep red, maroon and yellowish to orange shale) below. Both of the bounding formations are shales and should prevent vertical migration of injected water.

### Nugget Fracture Pressure

The fracture gradient in the Nugget is estimated to be 0.86 <sup>psi</sup>/<sub>ft</sub> from the Bingham 2-1A frac job and the Bingham 2-3 acid job (fracture gradient used in the Bingham & Son's No. 1 SWD Application, February 10, 1992). Assuming 8.6 ppg water the static wellhead pressure at which the top Nugget perf, 10,956', fractures is 4522 psi. We are asking for a maximum wellhead pressure of 2500 psi (which includes friction pressure) putting us 2000 psi below the fracture pressure.

c:\wp51\mem\UP17-1re.me2



UPRC 17-1  
17-2N-7E  
Summit County, Utah

0 - 1545' 9 5/8" OD SURF CSG

0 - 10800' 2.875" OD 6.50#/ft DUO Upset TBG

10398 - 10428' SQUEEZE PERFS

10438 - 10496' SQUEEZE PERFS

10514 - 10526' SQUEEZE PERFS

10536 - 10541' SQUEEZE PERFS

10574 - 10602' SQUEEZE PERFS

10692 - 10720' SQUEEZE PERFS

10826 - 10864' SQUEEZE PERFS

10826 - 10864' SQUEEZE PERFS

10872 - 10903' SQUEEZE PERFS

10872 - 10903' SQUEEZE PERFS

10956 - 11000' PERFS

11020 - 11100' PERFS

(New)

~~10800~~ 10810 RETRV. PACKER

0 - 11114' 5.5" OD PROD CSG

KB ELEV: 6773'

PBTD: 10300'

TD: 11114'

CMT'D 5 1/2" CSG w/ 2900 SXS  
5 1/2" SHAPE @ 11,114'  
THD @ 5300'

UPRC 17-1  
 NW/4 Sec 17, T2N-R7E  
 Summit County, Utah

October 28, 1993

**Convert Well to Salt Water Disposal**

**Well Data:**

TD 11,114', PBSD 10,270' (est)  
 5 1/2"/20#/SOO-90 @ 1315', 20#/C95 @ 1921', 20#/L80 @ 3055', 17#/L80 @ 8440', 23#/P110 @ 9936', & 20#/L80 @ 11,112'

Note: See attached wellbore schematic for additional well data.

1. MIRU WSU for 24 hr ops. Spot pump, pit & pwr swivel. Dig earth pit to take cmt rtns in. ND WH, NU BOP. Circ hole w/ prod wtr through kill string. POOH & stand back kill string.
2. The following table details the CIBPs which have to be drilled out and the test perms which have to be sqz'd. Use the table as follows:
  1. PU 4 1/2" blade bit & 4-3 1/8" DCs, drill out the cmt capped CIBP(s) @ "Φ out CIBP", tag PBSD @ "Btm CIBP". SI pipe rams & est pump in rate, report to engineering.
  2. POOH w/ bit & DCs. PU sqz pkr, RIH & set @ "Sqz Pkr". M&P "Sqz Vol", disp t/ EOT, slow down to 1/2 BPM as cmt enters perms, stage as necessary. Sqz must test to 1000 psi. Repeat sqz as necessary (NOTE: Exxon used 1/4 per sx cellophane flakes and 10# per sx Koalite very effectively on 10,574'-602').
  3. Repeat for next set. Test last sqz to 1000 psi for 30 min while recording press on chart. Drill out last CIBP and shoe jt to 11,100'. POOH & LD WS & collars.

Φ out CIBP	Top Perf	Btm Perf	Btm CIBP	Sqz Pkr	Sqz Vol
10,300	10,398	10,541	10,565	9,948	40 sxs
10,565 10,686	10,574	10,720	10,800	10,124	40 sxs
10,800	10,826	10,903	10,944	10,376	30 sxs
10,944	10,956	11,000			0 sxs

3. MIRU WL & packoff. Run GR/CCL/CBL PBSD to TOC. Perf 11,020'-100' with a 3 1/8" csg gun, 4 SPF, 15 gram charges, total of 320 holes. RDMO WLU.
4. PU Baker Model R, double grip, nickel plated pkr, & RIH on 2 7/8" N80 6.5# DUOLINE 8rd EUE. Spaceout & set pkr @ ~~10,800'~~ <sup>10,915'</sup> with 20M# compression. ND BOP NU WH. Break down perms & conduct injection test



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

- Well File

December 10, 1993

Mr. Don Bates  
Exxon Corporation  
P.O. Box 1600  
Midland, Texas 79702-1600

Dear Mr. Bates:

Re: Notification of Sale or Transfer of Lease Interest - UPRC #1 Well, Section 17, Township 2 N., Range 7 E., Summit County, Utah, API No. 43-043-30290

The division has received notification of a change of operator from Exxon Corporation to Union Pacific Resources Co. for the referenced wells which are located on fee leases.

Rule R649-2-10, of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease (working interest or royalty interest), when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Exxon Corporation of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than January 1, 1994.

Sincerely,

Don Staley  
Administrative Supervisor  
Oil and Gas

ldc  
cc: R.J. Firth  
WOI201

per research done by Don Bates of Exxon, Union Pacific is the only party that would need this notification. The well was farmed out to Exxon by UPRC and Exxon gave it back after the dry hole was drilled. He could find no records indicating that any other parties owned any ~~and~~ interest. DTS 1-3-94





# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

## FAX TRANSMISSION

DATE: 4-11

TIME: 3:30

TO: Lisha Cordova

LOCATION: St of Utah

FAX NUMBER: 801-359-3940

FROM: Carolyn Fluman

MAIL STATION: 2602 LOCATION: Fort Worth

PHONE NUMBER: 817-877-6467

Fax Number: 817-877-6230

NUMBER OF PAGES (INCLUDING COVER): 2

COMMENTS: Let me know if the attached  
is properly completed.  
If so, I will mail original today -  
Sorry for the delay -  
Thanks  
Carolyn

8

3 Trade Center  
Suite 350  
Salt Lake City, Ut.  
84186-1203

OPERATOR Union Pacific Resources OPERATOR  
ADDRESS PO Box 7 MS 2602  
Fort Worth TX 76101-0007

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	APC NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SE	TP	RG	COUNTY		
A	99999	11626	43-043-30302	UPRR 3-10	SWSE	3	2N	7E	Summit	1/20/94	
WELL 1 COMMENTS: <u>Lodgepole Field</u> * Entity added 4-11-94. <u>JCC</u> <u>Iron Creek Formation</u>											
D	10860		4304330290	UPRR #1	SE NW	17	2N	7E	Summit	3/22/88	12-7-93 Complete 2-24-94
WELL 2 COMMENTS: <u>Elkhorn Field - Iron Creek - Dry Hole</u> <u>* No chg. necessary. JCC</u> <u>recompleted to Nuggett - water disposal well</u>											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

**ACTION CODES** (See instructions on back of form)

- 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)

**NOTE:** Use COMMENT section to explain why each Action Code was selected.

(3/83)

Carolyn Shum  
Signature  
Jr Accountant  
Title  
Date  
Phone No. 817-877-6467

002

15:22

04/11/94

via Federal Express

November 17, 1993

Utah Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 N. Temple - 3 Triad Center, Suite 350  
Salt Lake City, Utah 84180  
Attn: Mr. Dan Jarvis

RE: UPRC 17-1  
SWD application  
NW/4 Sec. 17-2N-7E  
Summit County, Utah

Dear Dan,

Pursuant to our conversation on November 16, please find attached the following information requested to complete Union Pacific Resources' application for salt-water disposal:

- a. a representative Nugget water analysis
- b. proof of fresh water protection
- c. confining intervals which prevent vertical migration of injected water
- d. information to support the Nugget fracture pressure requested

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If any additional information is needed, please contact myself at (817) 877-6530 or Fred McDougal at (817) 877-7887.

Sincerely,

UNION PACIFIC RESOURCES COMPANY

  
Cami Minzenmayer  
Regulatory Analyst

attachments

**RECEIVED**

NOV 18 1993

DIVISION OF  
OIL, GAS & MINING



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

## INTER-OFFICE CORRESPONDENCE

TO: C.D. Minzenmayer  
FROM: F.W. McDougal

OFFICE: FTW/3706  
November 17, 1993

Supplemental Information - UPRC 17-1 SWD Application  
Elkhorn Field, Summit County, Utah

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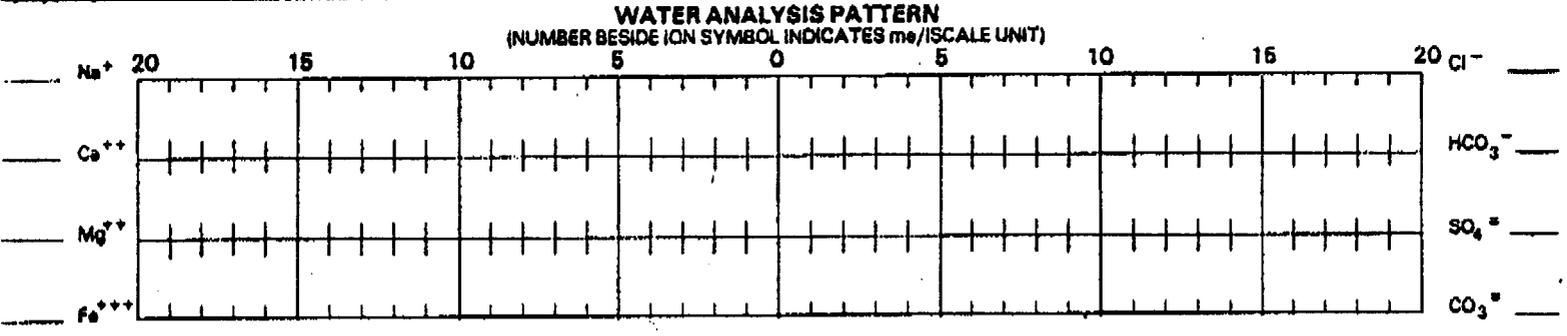
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c:\wp51\mem\UP17-1re.me2

COMPANY: **UPRC**  
 FIELD: **PINEVIEW**  
 COUNTY OR PARISH: **Summit**  
 STATE: **UT.**  
 SHEET NUMBER: \_\_\_\_\_  
 DATE: **11/13/93**  
 RELEASE OR UNIT: **#3-2**  
 SAMPLE SOURCE: **WELL HEAD**  
 WATER SOURCE (FORMATION): \_\_\_\_\_  
 DEPTH FT.: \_\_\_\_\_ BHT, °F: \_\_\_\_\_  
 SAMPLE SOURCE: \_\_\_\_\_ TEMP., °F: \_\_\_\_\_  
 WATER, BBL/DAY: \_\_\_\_\_ OIL, BBL/DAY: \_\_\_\_\_  
 GAS, MMCF/DAY: \_\_\_\_\_  
 DATE SAMPLED: **11/13/93**  
 TYPE OF WATER:  PRODUCED  SUPPLY  WATERFLOOD  SALTWATER DISPOSAL  
 TYPE OF PRODUCTION:  PRIMARY  WATERFLOOD  CO<sub>2</sub> FLOOD  POLYMER FLOOD  STEAMFLOOD



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l	mg/l		mg/l
TOTAL HARDNESS	48		HYDROGEN SULFIDE, H <sub>2</sub> S	
CALCIUM, Ca <sup>++</sup>	28	560	CARBON DIOXIDE, CO <sub>2</sub>	
MAGNESIUM, Mg <sup>++</sup>	20	244	OXYGEN, O <sub>2</sub>	
IRON (TOTAL) Fe <sup>+++</sup>	2.7	50	PHYSICAL PROPERTIES	
BARIUM, Ba <sup>++</sup> /SL.	TRACE	TRACE	pH	7.1
SODIUM, Na <sup>+</sup> (CALC.)	403	9209	Eh (REDOX POTENTIAL)	MV
			SPECIFIC GRAVITY	
			TURBIDITY, FTU UNITS	
ANIONS	me/l	mg/l	TOTAL DISSOLVED SOLIDS (CALC.)	29,239 mg/l
CHLORIDE, Cl <sup>-</sup>	451	16,000	STABILITY INDEX	°F
SULFATE, SO <sub>4</sub> <sup>==</sup>	52	2,500		°F
CARBONATE, CO <sub>3</sub> <sup>==</sup>				°F
BICARBONATE, HCO <sub>3</sub> <sup>-</sup>	10.1	616	CaSO <sub>4</sub> SOLUBILITY	°F mg/l
HYDROXYL, OH <sup>-</sup>				°F mg/l
SULFIDE, S <sup>==</sup>			MAX. CaSO <sub>4</sub> POSSIBLE (CALC.)	mg/l
			MAX. BaSO <sub>4</sub> POSSIBLE (CALC.)	mg/l
			RESIDUAL HYDROCARBONS	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)  IRON SULFIDE  IRON OXIDE  CALCIUM CARBONATE  CALCIUM SULFATE  ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS:

EC ENGINEER: **W.C. VICKERS**  
 ANALYZED BY: **W.C. VICKERS**  
 DIST. NO.: \_\_\_\_\_ ADDRESS: **Box 618 EVANSTON, WY**  
 OFFICE PHONE: **307-789-1355** HOME PHONE: \_\_\_\_\_  
 DATE: **11/13/93** DISTRIBUTION:  CUSTOMER  EC ENGINEER  REGION  DISTRICT

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Union Pacific Resources Company  
ADDRESS P.O. Box 7 MS 3407  
Fort Worth, TX 76101-0007

Well name and number: UPRC 17-1 SWD  
Field or Unit name: Elkhorn Lease no. \_\_\_\_\_  
Well location: QQ NW/4 section 17 township 2N range 7E county Summit

Is this application for expansion of an existing project? . . Yes  No

Will the proposed well be used for: Enhanced Recovery? . . Yes  No   
Disposal? . . . . . Yes  No   
Storage? . . . . . Yes  No

Is this application for a new well to be drilled? . . . . . Yes  No

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No   
Date of test: will be run prior to disposal  
API number: \_\_\_\_\_

Proposed injection interval: from 10956' to 11100'  
~~11000~~ ~~11020~~

Proposed maximum injection: rate 10000 ~~4000~~ BWPD pressure 2500 psig

Proposed injection zone contains  oil,  gas, and/or  fresh water within 1/2 mile of the well. within 2 miles but not within 1/2 mile

**IMPORTANT:** Additional information as required by R615-5-2 should accompany this form.

List of Attachments: 9 spot map detailing 1/2 mile radius requirements  
R615-5-2-2.1 disposal procedures, water analysis, wellbore schematic.

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

Name Cami Minzenmayer Signature Cami Minzenmayer  
Title Regulatory Analyst Date 11-8-93  
Phone No. (817) 877-6530

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

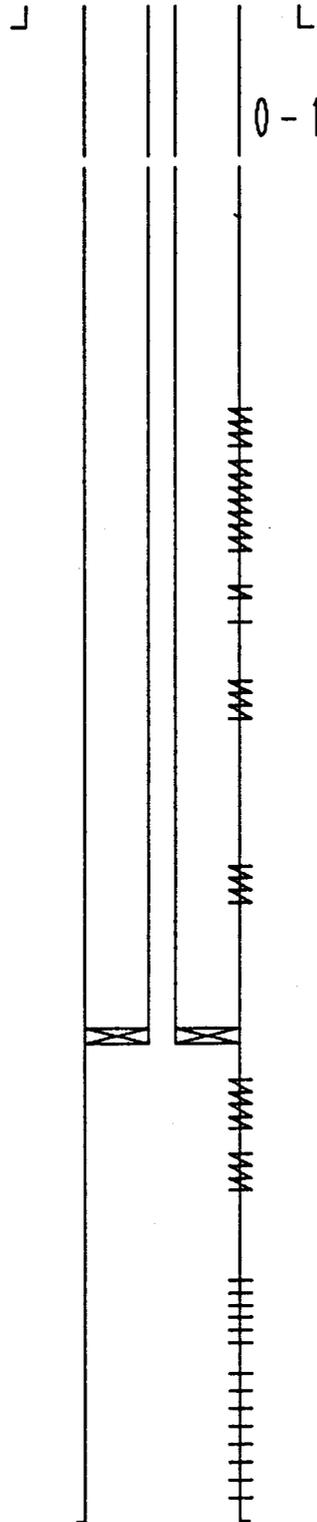
Comments:

UPRC 17-1

17-2N-7E

Summit County, Utah

0 - 1545' 9 5/8" OD SURF CSG



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(New)

~~10800~~ <sup>10915"</sup> 10810' RETRV. PACKER

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UPRC 17-1  
 NW/4 Sec 17, T2N-R7E  
 Summit County, Utah

October 28, 1993

### Convert Well to Salt Water Disposal

#### Well Data:

TD 11,114', PBD 10,270' (est)  
 5 1/2" / 20# / SOO-90 @ 1315', 20# / C95 @ 1921', 20# / L80 @ 3055', 17# / L80 @ 8440', 23# / P110 @ 9936', & 20# / L80 @ 11,112'

Note: See attached wellbore schematic for additional well data.

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

Michael O. Leavitt  
Governor  
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James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 15, 1993

Summit County Bee  
20 North Main  
Coalville, Utah 84017

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-143

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, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement  
Administrative Secretary

Enclosure  
WO1168



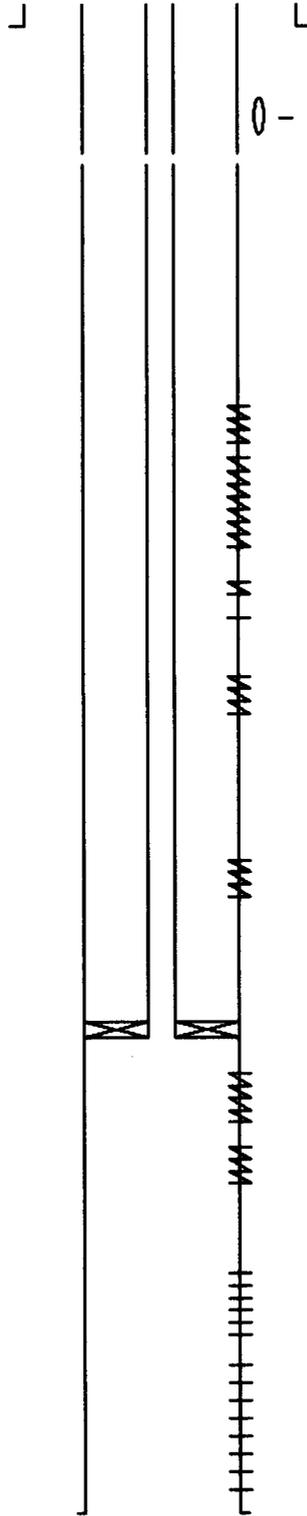
# POST CONVERSION

UPRC 17-1

17-2N-7E

Summit County, Utah

0 - 1545' 9 5/8" OD SURF CSG



0 - 10800' 2.875" OD 6.50#/ft DUO Upset TBG

10398 - 10428' SQUEEZE PERFS

10438 - 10496' SQUEEZE PERFS

10514 - 10526' SQUEEZE PERFS

10536 - 10541' SQUEEZE PERFS

10574 - 10602' SQUEEZE PERFS

10692 - 10720' SQUEEZE PERFS

10800 - 10810' RETRV. PACKER

10826 - 10864' SQUEEZE PERFS

10826 - 10864' SQUEEZE PERFS

10872 - 10903' SQUEEZE PERFS

10872 - 10903' SQUEEZE PERFS

10956 - 11000' PERFS

11020 - 11100' PERFS

(New)

0 - 11114' 5.5" OD PROD CSG

KB ELEV: 6773'

PBTD: 10300'

TD: 11114'



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 15, 1993

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

Gentlemen:

Re: Notice of Agency Action - Cause Nos. UIC-140, UIC-142, and UIC-143

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, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement  
Administrative Secretary

Enclosure  
WOI168



APPLICATION FOR INJECTION WELL UIC FORM 1

OPERATOR Union Pacific Resources Company  
ADDRESS P.O. Box 7 MS 3407  
Fort Worth, TX 76101-0007

Well name and number: UPRC 17-1 SWD  
Field or Unit name: Elkhorn Lease no. \_\_\_\_\_  
Well location: QQ NW/4 section 17 township 2N range 7E county Summit

Is this application for expansion of an existing project? . . . Yes  No   
Will the proposed well be used for: Enhanced Recovery? . . . Yes  No   
Disposal? . . . . . Yes  No   
Storage? . . . . . Yes  No

Is this application for a new well to be drilled? . . . . . Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No   
Date of test: will be run prior to disposal  
API number: \_\_\_\_\_

Proposed injection interval: from 10956'  
11000 to 11100'  
11020  
Proposed maximum injection: rate 10000  
~~4000~~ BWPD pressure 2500 psig

Proposed injection zone contains  oil,  gas, and/or  fresh water within 1/2 mile of the well. within 2 miles but not within 1/2 mile

**IMPORTANT:** Additional information as required by R615-5-2 should accompany this form.

List of Attachments: 9 spot map detailing 1/2 mile radius requirements  
R615-5-2-2.1, disposal procedures, water analysis, wellbore schematic.

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

Name Cami Minzenmayer Signature Cami Minzenmayer  
Title Regulatory Analyst Date 11-8-93  
Phone No. (817) 877-6530

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:



Union Pacific  
Resources

A Subsidiary of Union Pacific Corporation

# FACSIMILE TRANSMISSION

## UNION PACIFIC RESOURCES COMPANY

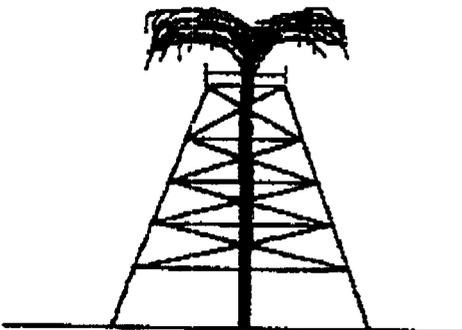
TO: Don Jarvis DATE: 12/7 TIME: 2:00 CST  
FAX NO: 801-355-0922 LOCATION: State of Utah  
~~801-359-3740~~  
FROM: Cami Minzenmayer TELEPHONE (817) 877-6530  
NUMBER OF PAGES 1 + COVER

REMARKS: Please approve and fax back  
at below fax #.  
Any questions give me a call!

PLEASE NOTE: The information contained in this facsimile is privileged and confidential, and is intended only for the use of the individual named above and others who have been specifically authorized to receive such. If the recipient 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 immediately notify us by telephone.

Thank You,  
Susan Feist

817/877-7949  
FAX 817/877-7942



Form 8

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

**SEND IN NOTICES AND REPORTS ON WELLS**

1. Type of Well  
 Oil Well     Gas Well     Other (specify) **SWD**

2. Name of Operator  
**Union Pacific Resources Company**

3. Address of Operator  
**P.O. Box 7 MS 3407, Fort Worth, TX 76101-0007**

4. Telephone Number  
**(817)877-6530**

5. Location of Well  
 Footage : **2335' FNL & 2052' FWL**  
 QQ. Sec. T., R., M. : **NW/4 Sec. 17-2N-7E**  
 County : **Summit**  
 State : **UTAH**

6. Lease Designation and Serial Number  
**N/A**

7. Indian Allottee or Tribe Name  
**N/A**

8. Unit or Communitization Agreement  
**N/A**

9. Well Name and Number  
**UPRC 17-1 SWD**

10. API Well Number  
**43-043-30290**

11. Field and Pool, or Wildcat  
**Elkhorn**

**12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE REPORT (SEE INSTRUCTIONS)**

<p style="text-align: center;"><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <table border="0"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input checked="" type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start <u>Upon approval</u></p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input checked="" type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p style="text-align: center;"><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <table border="0"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Date of Work Completion _____</p> <p>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.          * Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____	
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<input type="checkbox"/> Other _____																											

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  
**Union Pacific Resources Company requests permission to convert the above-mentioned well to a SWD with the following procedure:**

1. **MIKE V8U** for 24 hr ops. Spot pump, pit & per survival. Dig earth pit to take out rtw in. ND WH, NU BOP. Circ hole w/ prod wtr through kill string. POOH & stand back kill string.
2. The following table details the CIBs which have to be drilled out and the test perfs which have to be sqz'd. Use the table as follows:
  1. **FU 4 1/2"** blade bit & 4-3/4" DCs, drill out the out cased CIB(s) @ "4 out CIB", tag FSTD @ "3m CIB". SI pipe ram & set pump in rate, reports no engineering.
  2. **POOH w/ bit & DCs**. **FU sqz pkr**, **RH & set @ "Sqz Pkr"**. **N&P "Sqz Vol"**, **displ w/ DOT**, slow down to 1/2 RPM as out enters perfs, stage as necessary. **Sqz must test to 1000 psi**. Repeat sqz as necessary (NOTE: Emman used 1/2 per sq callophane flakes and 10c per sq Kealite very effectively on 10,374'-602').
  3. Repeat for next set. Test last sqz to 1000 psi for 30 min while recording press on chart. Drill out last CIB and shoe jt to 11,100'. **POOH & LD WS & callars**.

4 out CIB	Top Perf	Bot Perf	Bot CIB	Sqs Pkr	Sqs Vol
10,300	10,398	10,541	10,965	9,948	40 sqs
10,565	10,574	10,720	10,800	10,124	40 sqs
10,686					
10,800	10,826	10,903	10,944	10,376	30 sqs
10,944	10,956	11,000			0 sqs

3. **MIKE VL & packoff**. Run GR/CGL/CBL FSTD to TOC. Perf 11,020'-100' with a 3 1/2" csg gun, & SPT, 15 gram charges, total of 320 holes. **EMMO VLD**.
4. **FU Baker Model R**, double grip, nickel plated pkr, & RH on 2 1/2" N80 4.5c DOOLINE 3rd EUE. Spacout & set pkr @ 10,800' with 20c compression. ND BOP NU WH. Break down perfs & conduct injection test with rig pump. ACDE as necessary.

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

Name & Signature Cami Minzenmayer / Cami Minzenmayer Title Regulatory Analyst Date 12-07-93

(See Only)

Accepted by the State of Utah Division of Oil, Gas and Mining  
 Date: 12-8-93  
 By: [Signature]  
 Conditions Attached

(8/90) See Instructions on Reverse Side

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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	<b>AMENDED</b>
OF UNION PACIFIC RESOURCES	:	NOTICE OF AGENCY ACTION
COMPANY FOR ADMINISTRATIVE	:	
APPROVAL OF THE UPRC #1 WELL	:	CAUSE NO. UIC-143
LOCATED IN SECTION 17, TOWNSHIP	:	
2 NORTH, RANGE 7 EAST, S.L.M.,	:	
SUMMIT COUNTY, UTAH, AS A	:	
CLASS II INJECTION WELL	:	

---ooOoo---

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Union Pacific Resources Company for administrative approval of the UPRC #1 Well, located in Section 17, Township 2 North, Range 7 East, Summit County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 10,956 feet to 11,100 feet (Nugget Formation) will be selectively perforated for water injection. The maximum requested injection pressure is 2500 psig and the estimated maximum injection volume will be 10,000 barrels of water per day.

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 before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of December, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



R.J. Firth  
Associate Director

**Union Pacific Resources Company  
UPRC #1 Well  
Cause No. UIC-143**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

Summit County Bee  
20 North Main  
Coalville, Utah 84017

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

Cami Minzenmayer  
Union Pacific Resources Company  
P.O. Box 7 MS 2602  
Fort Worth, Texas 76101-0007

Dan Jackson  
U.S. Environmental Protection Agency  
Region VIII  
999 18th Street  
Denver, Colorado 80202-2466

  
\_\_\_\_\_  
Lisa D. Clement  
Administrative Secretary  
December 15, 1993

Form 9

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

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number UPRC #1
10. API Well Number 43-043-30290
11. Field and Pool, or Wildcat undesignated

**SUNDRY NOTICES AND REPORTS ON WELLS**  
This form is for completion of new wells, casing, perforating, workover, plugged and abandoned wells.  
See APPLICATION FOR PERMIT - OIL AND GAS

1. Type of Well  
 Oil Well  Gas Well  Other (specify) Dry

2. Name of Operator  
Union Pacific Resources Company

3. Address of Operator  
P.O. Box 7 MS 3407, Fort Worth, TX 76101-0007

4. Telephone Number  
(817)877-6530

5. Location of Well  
Footage : 2335' FNL & 2052' FWL  
Co. Sec. T. R. M. : NW/SB Sec. 17-2N-7E  
County : Summit  
State : UTAH

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

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other Change of operator
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

Approximate Date Work Will Start Upon Approval

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that the above-mentioned well has been purchased from Exxon Corp. effective 12-08-93. As of this date, Union Pacific Resources Company will be the operator.

Union Pacific Resources Company requests to have the well name remain the UPRC #1 and any reference to a different name be disregarded. The original name, UPRC #1, is the official name assigned to API# 43-043-30290 and the name we will use upon conversion to a SWD.

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

Name & Signature Cami Minzenmayer *Cami Minzenmayer* Title Regulatory Analyst Date 12-08-93  
(Use Only)

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:	
1- <del>REQ</del> 7- <del>LEC</del>	<input checked="" type="checkbox"/>
2-DPS/DLS	<input checked="" type="checkbox"/>
3-VLC	<input checked="" type="checkbox"/>
4-RJF	<input checked="" type="checkbox"/>
5-PL	<input checked="" type="checkbox"/>
6-SJ	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-08-93)

TO (new operator)	<u>UNION PACIFIC RESOURCES CO</u>	FROM (former operator)	<u>EXXON CORPORATION</u>
(address)	<u>PO BOX 7 MS 2602</u>	(address)	<u>PO BOX 4721</u>
	<u>FORT WORTH TX 76101-0007</u>		<u>HOUSTON TX 77210-4721</u>
	<u>CAMI MINZENMAYER</u>		<u>DON BATES</u>
	phone <u>( 817 ) 877-6530</u>		phone <u>( 915 ) 688-7874</u>
	account no. <u>N 9465</u>		account no. <u>N 0420</u>

Well(s) (attach additional page if needed):

Name: <u>U.P.R.C. #1</u>	API: <u>43-043-30290</u>	Entity: <u>10860</u>	Sec <u>17</u> Twp <u>2N</u> Rng <u>7E</u>	Lease Type: <u>FEE</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 12-8-93)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 12-8-93)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(12-8-93)*
- See 6. Cardex file has been updated for each well listed above. *(12-8-93)*
- See 7. Well file labels have been updated for each well listed above. *(12-8-93)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(12-8-93)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. *Surety Bond No. 2447222 (80,000) Issued by General Insurance Company.*
- 2. A copy of this form has been placed in the new and former operators' bond files. *\* Upon compl. of routing.*
- 3. The former operator has requested a release of liability from their bond (yes/) Today's date December 8, 1993. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 12/10 1993, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- 1. All attachments to this form have been microfilmed. Date: December 27 1993.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931208 Int. to convert well to SWD. (UIC Group aware of operator change)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: DRY HOLE		5. Lease Designation and Serial Number: Fee
2. Name of Operator: Exxon Corp.		6. If Indian, Alotbee or Tribe Name:
3. Address and Telephone Number: P. O. Box 1600, Midland, Tx. 79702-1600 (915) 688-7874		7. Unit Agreement Name:
4. Location of Well Footages: 2335' FNL & 2052' FWL of Sec. 17 OO. Sec., T., R., M.: (SENW); Sec. 17, T-2N, R-7E		8. Well Name and Number: U. P. R. C. #1
		9. API Well Number: 43-043-30290
		10. Field and Pool, or Wildcat: Undesignated
		County: Summitt
		State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Operator Change</u>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective 12/08/93, Exxon Corp. sold the above mentioned wellbore in it's entirety to Union Pacific Resources Company.

Address: 801 Cherry Street  
Mail Station 3407  
Ft. Worth, TX 76102

DEC 09 1993

13. Name & Signature: Don J. Bate Title: Regulatory Specialist Date: 12/8/93

(This space for State use only)



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 10, 1993

Mr. Don Bates  
Exxon Corporation  
P.O. Box 1600  
Midland, Texas 79702-1600

Dear Mr. Bates:

Re: Notification of Sale or Transfer of Lease Interest - UPRC #1 Well, Section 17, Township 2 N., Range 7 E., Summit County, Utah, API No. 43-043-30290

The division has received notification of a change of operator from Exxon Corporation to Union Pacific Resources Co. for the referenced wells which are located on fee leases.

Rule R649-2-10, of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease (working interest or royalty interest), when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Exxon Corporation of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than January 1, 1994.

Sincerely,

A handwritten signature in cursive script that reads "Don Staley".

Don Staley  
Administrative Supervisor  
Oil and Gas

ldc  
cc: R.J. Firth  
WOI201





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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

January 31, 1994

Union Pacific Resources Company  
P.O. Box 7 MS 3407  
Fort Worth, Texas 76101-0007

Re: UPRC 1 Well, Section 17, Township 2 North, Range 7 East, Summit County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R.649-5-3-3, 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 regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.
2. Conformance with all conditions and requirements of the application submitted by Union Pacific Resources Company.
3. Provide notification to the Division prior to commencing injection operations.
4. Submittal of a copy of the cement bond log which verifies the cement top outside the five and one-half inch casing.

Following completion of the well conversion work, pressure testing and other operations and submittal of the required documents to the Division, a final UIC permit will be issued. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth  
Associate Director

ldc

cc: Dan Jackson, Environmental Protection Agency

W602



# PROOF OF PUBLICATION



STATE OF UTAH, }  
County of Summit, } ss.

I, Shirley B. Phelps

being first duly sworn, depose and say that I am the \_\_\_\_\_  
bookkeeper of The Summit County Bee, a week-  
ly newspaper of general circulation, published once each week at  
Coalville, Utah, that the notice attached hereto and which is a  
Notice of Agency Action

was published in said newspaper for 1 ~~con-~~  
~~secutive~~ issues, the first publication having been made on the  
24 day of December, 19 93, and the last  
on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, that said  
notice was published in the regular and entire issue of every number  
of the paper during the period and times of publication, and the same  
was published in the newspaper proper and not in any supplement.

Shirley B. Phelps

Subscribed and sworn to before me this 24 day of  
December, 19 93

Susan F. Buys  
Notary Public

My commission expires Nov 1, 19 96.



OFFICE COPY

5802 NM GADM

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

IN THE MATTER OF THE  
APPLICATION OF UNION  
PACIFIC RESOURCES COM-  
PANY FOR ADMINISTRATIVE  
APPROVAL OF THE UPRC #1  
WELL LOCATED IN SECTION  
4, TOWNSHIP 2 NORTH,  
RANGE 7 EAST, S.L.M.,  
SUMMIT COUNTY, UTAH, AS  
A CLASS II INJECTION WELL  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-143

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

Notice is hereby given that the  
Division is commencing an infor-  
mal adjudicative proceeding to con-  
sider the application of Union  
Pacific Resources Company for  
administrative approval of the  
UPRC #1 Well, located in Section  
4, Township 2 North, Range 7  
East, Summit County, Utah, for  
conversion to a Class II injection  
well. The proceedings will be con-  
ducted in accordance with Utah  
Admin. R.649-10, Administrative  
Procedures.

The interval from 10,956 feet to  
11,100 feet (Nugget Formation)  
will be selectively perforated for  
water injection. The maximum re-  
quested injection pressure is 2500  
psig and the estimated maximum  
injection volume will be 10,000  
barrels of water per day.

Any person desiring to object to  
the application or otherwise inter-  
vene in the proceeding, must file a  
written protest or notice of inter-  
vention 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 before the  
Board of Oil, Gas and Mining.  
Protestants and/or intervenors  
should be prepared to demonstrate  
at the hearing how this matter  
affects their interests.

DATED this 15th day of  
December, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS  
AND MINING

R.J. Firth  
Associate Director  
Published in The Summit  
County Bee December 24, 1993.

# PROOF OF PUBLICATION



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

IN THE MATTER OF THE  
APPLICATION OF UNION  
PACIFIC RESOURCES  
COMPANY FOR  
ADMINISTRATIVE APPROVAL  
OF THE UPRC #1 WELL  
LOCATED IN SECTION 17,  
TOWNSHIP 2 NORTH, RANGE  
7 EAST, S.L.M., SUMMIT  
COUNTY, UTAH, AS A CLASS  
II INJECTION WELL

AMENDED  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-143  
THE STATE OF UTAH TO  
ALL PERSONS INTERESTED IN  
THE ABOVE ENTITLED  
MATTER.

Notice is hereby given that the  
Division is commencing an infor-  
mal adjudicative proceeding to con-  
sider the application of Union  
Pacific Resources Company for  
administrative approval of the  
UPRC #1 Well, located in Section  
17, Township 2 North, Range 7  
East, Summit County, Utah, for  
conversion to a Class II injection  
well. The proceedings will be con-  
ducted in accordance with Utah  
Admin. R.649-10, Administrative  
Procedure.

The interval from 10,956 feet to  
11,100 feet (Nugget Formation)  
will be selectively perforated for  
water injection. The maximum re-  
quested injection pressure is 2500  
psig and the estimated maximum

injection volume will be 10,000  
barrels of water per day.

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vention 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 before the  
Board of Oil, Gas and Mining.  
Protestants and/or intervenors  
should be prepared to demonstrate  
at the hearing how this matter  
affects their interests.

DATED this 15th day of  
December, 1993.

STATE OF UTAH  
DIVISION OF OIL,  
GAS AND MINING  
R.J. Firth

Associate Director  
Published in The Summit  
County Bee January 7, 1994.

STATE OF UTAH, }  
County of Summit, } ss.

I, Shirley B. Phelps

being first duly sworn, depose and say that I am the \_\_\_\_\_  
bookkeeper

of The Summit County Bee, a week-  
ly newspaper of general circulation, published once each week at  
Coalville, Utah, that the notice attached hereto and which is a  
Approval of the UPRC #1 Well

Amended Notice of Agency Action

was published in said newspaper for 1 con-

secutive issues, the first publication having been made on the

7 day of January, 1994, and the last

on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, that said

notice was published in the regular and entire issue of every number  
of the paper during the period and times of publication, and the same  
was published in the newspaper proper and not in any supplement.

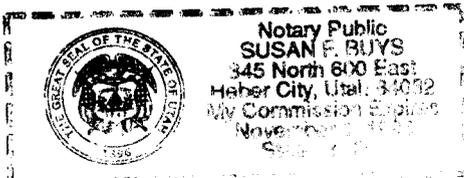
Shirley B. Phelps

Subscribed and sworn to before me this 7 day of

January, 1994.

Susan F. Buys  
Notary Public

My commission expires Nov 1, 1996.



5802 NM6ADM

OFFICE COPY



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 (NA) DESERET 'S

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LEGAL ADVERTISING INVOICE

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV OF OIL, GAS & MINING 355 W NO TEMPLE, #350 SALT LAKE CITY, UT 84180	LE-5385340	12/22/93
		FOR BILLING INFORMATION CALL (801) 237-2822

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE NO. UIC-143 BEFORE DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON DEC 21 1993

SIGNATURE \_\_\_\_\_

NOTICE OF AGENCY ACTION CAUSE NO. UIC-143 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF UNION PACIFIC RESOURCES COMPANY FOR ADMINISTRATIVE APPROVAL OF THE UPRC #1 WELL LOCATED IN SECTION 4, TOWNSHIP 2 NORTH, RANGE 7 EAST, S.L.M., SUMMIT COUNTY, UTAH, AS A CLASS II INJECTION WELL.

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Union Pacific Resources Company for administrative approval of the UPRC #1 Well located in Section 4, Township 2 North, Range 7 East, S.L.M., Summit County, Utah, as a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 10,956 feet to 11,100 feet (Nugget Formation) will be selectively perforated for water injection. The maximum requested injection pressure is 2500 psig and the estimated maximum injection volume will be 10,000 barrels of water per day.

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 before a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of December, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
/s/ R. J. Firth  
Associated Director  
CH710160

DATE <u>12/22/93</u>		ACCOUNT NAME		TELEPHONE	
		DIV OF OIL, GAS & MINING		801-538-5340	
		SCHEDULE		AD NUMBER	
21 1993				CH710160	
T. REF. NO.		CAPTION		MISC. CHARGES	
UIC-143		NOTICE OF AGENCY ACTION CAUSE NO. UIC-143 BEFORE		.00	
SIZE		TIMES		RATE	
ONES 1 COLUMN		1		1.64	
D PAYABLE ON RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE		116.44	

THANK YOU FOR USING LEGAL ADVERTISING.

PLEASE RETURN THIS PORTION WITH YOUR PAYMENT IN THE ENCLOSED ENVELOPE LEGAL ADVERTISING

ACCOUNT NUMBER	AD NUMBER	BILLING DATE	PAY THIS AMOUNT
LE-5385340	CH710160	12/22/93	116.44

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PLEASE REMIT TO:  
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P.O. BOX 45838  
SALT LAKE CITY, UTAH 84145-0838

MAKE CHECKS PAYABLE TO:  
NEWSPAPER AGENCY CORPORATION

DIV OF OIL, GAS & MINING  
355 W NO TEMPLE, #350  
SALT LAKE CITY, UT 84130



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

January 31, 1994

Union Pacific Resources Company  
P.O. Box 7 MS 3407  
Fort Worth, Texas 76101-0007

Re: UPRC 1 Well, Section 17, Township 2 North, Range 7 East, Summit County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R.649-5-3-3, 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 regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.
2. Conformance with all conditions and requirements of the application submitted by Union Pacific Resources Company.
3. Provide notification to the Division prior to commencing injection operations.
4. Submittal of a copy of the cement bond log which verifies the cement top outside the five and one-half inch casing.

Following completion of the well conversion work, pressure testing and other operations and submittal of the required documents to the Division, a final UIC permit will be issued. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth  
Associate Director

ldc  
cc: Dan Jackson, Environmental Protection Agency  
W602



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

N/A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

UPRC (SWD)

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Elkhorn

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

NW/4 Sec. 17-2N-7E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other **SWD**

1. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

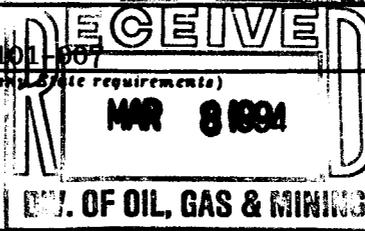
2. NAME OF OPERATOR  
Union Pacific Resources Company

3. ADDRESS OF OPERATOR  
P.O. Box 7, MS 3006 Fort Worth, TX 76101-0007

4. LOCATION OF WELL (Report location clearly and in accordance with applicable requirements)  
At surface 2335' FNL & 2052' FWL

At top prod. interval reported below

At total depth same



14. API NO. 43-043-30290	DATE ISSUED 2-24-88	12. COUNTY Summit	13. STATE Utah
-----------------------------	------------------------	----------------------	-------------------

15. DATE SPUDDED 12-7-93	16. DATE T.D. REACHED 1-6-94	17. DATE COMPL. (Ready to prod.) 2-24-94	18. ELEVATIONS (DF, BEB, RT, GR, ETC.) 6756 GR	19. ELEV. CASINGHEAD
-----------------------------	---------------------------------	---	---	----------------------

20. TOTAL DEPTH, MD & TVD 11121	21. PLUG BACK T.D., MD & TVD N/A	22. IF MULTIPLE COMPL. HOW MANY	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
------------------------------------	-------------------------------------	---------------------------------	--------------------------	--------------	-------------

24. Disposal Interval(s) of this completion—TOP, BOTTOM, NAME (MD AND TVD)  
Nuggett 10950' - 11100'

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
CBL

27. WAS WELL CORED YES  NO  (Submit analysis)  
DRILL STEM TEST YES  NO  (See reverse side)

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
*same as original completion filed 11-11-88					

**CONFIDENTIAL**

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2 7/8"	10884'	10921'

31. PERFORATION RECORD (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
10950' - 11100' 3 3/8" 22 grams	DEPTH INTERVAL (MD)   AMOUNT AND KIND OF MATERIAL USED
	9700'-10217   mix & pump 50 SXS. "G" Spot at 9700; Set pkr. Displace 3000# to 10217' TOC=10244'
	10347'   Displace 50 SXS. G

33. **disposal** PRODUCTION **\*\*Continue on back\*\***

DATE FIRST PRODUCTION: 2-24-94  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
WELL STATUS (Producing or shut-in): **disposal**

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
N/A							

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
N/A

TEST WITNESSED BY  
Dan Jarvis/Frank Matthews

LIST OF ATTACHMENTS  
forwarded under separate cover

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Cami Munzenmayer TITLE Regulatory Analyst DATE 3-4-94

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: 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.				38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	Name	Top	
					Meas. Depth	True Vert. Depth
			** Continued from #32  10650'-10920' Spot 50 SXS. AG300 cmt.- 10900 pumped 2500 gal. - 15% acid + 1000 gal. prod. wtr. + 2500 gals. 15% acid + 68 bbls. wtr.	Watton Canyon Boundary Ridge Rich Slide Rock Gypsum Springs Nuggett	10295' 10511' 10575' 10826' 10916' 10947'	

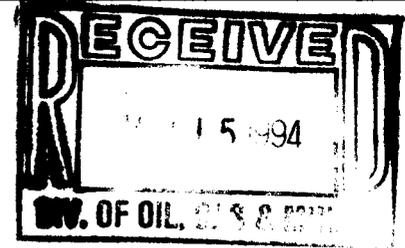


**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

March 10, 1994

Mr. Dan Jarvis  
State of Utah, Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203



**UPRC No. 1 SWDW - Step Rate Test  
Sec 17 T2N-R7E  
Elkhorn Field, Summit County, Utah**

Dear Mr. Jarvis:

I have attached the Step Rate Test performed on the above well January 14, 1994. A quick glance at the plot shows the well was actually cleaning up during the test. I do not think we ever fractured the formation during the test based on the last data point which showed we developed a constriction toward the end of the test. I do not think this is a valid Step Rate Test.

I agree with your conclusion, a significant volume of water needs to be injected into the well before the next Step Rate Test is performed.

If you have any questions please feel free to call me at (817)877-7887.

Very Truly Yours,

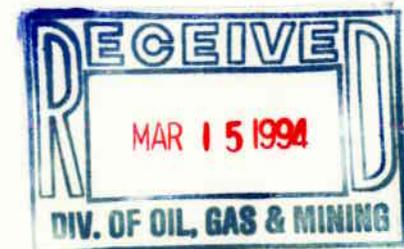
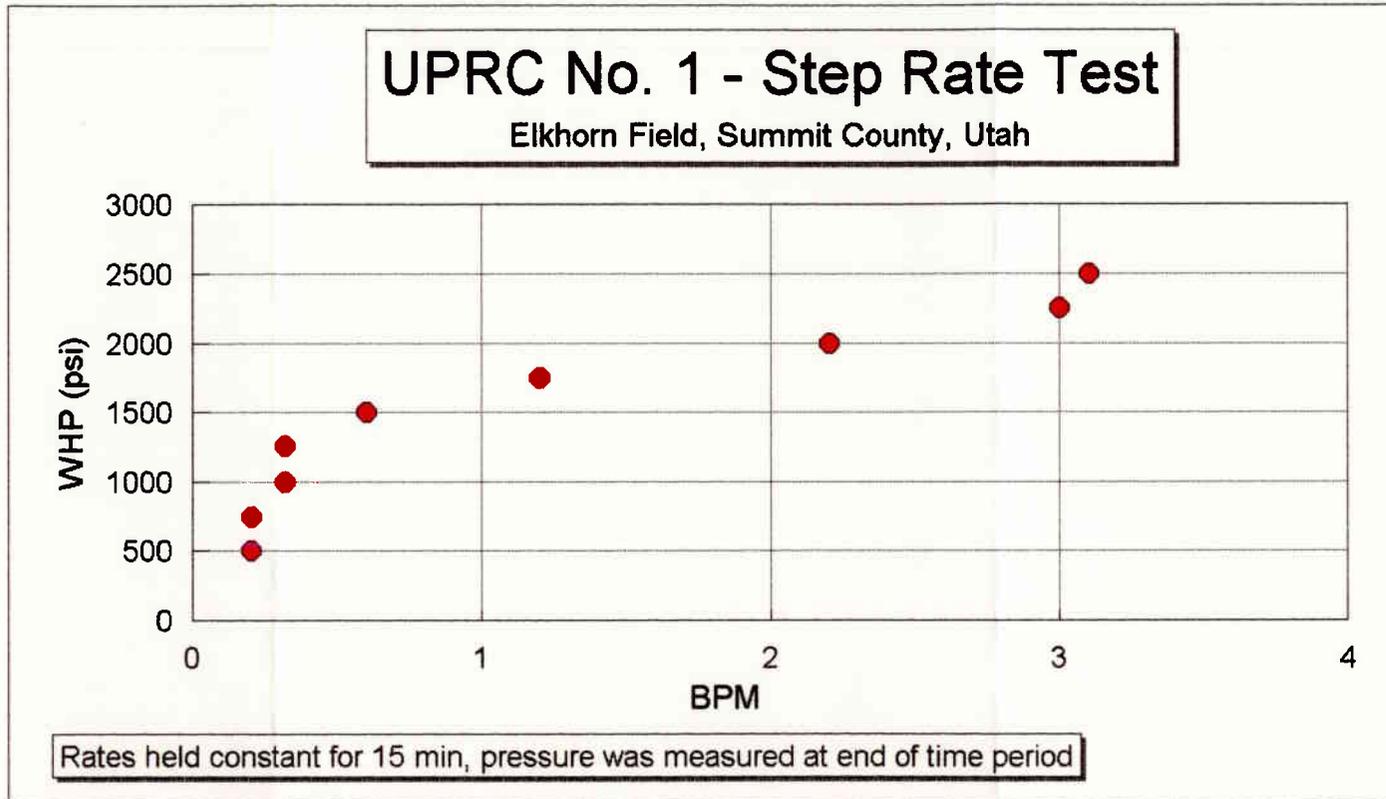
Fred McDougal  
Petroleum Engineer

c:\wp51\ltr\jarv2.ltr

# UPRC No. 1 - Step Rate Test

## Elkhorn Field, Summit County, Utah

WHP	BPM
500	0.20
750	0.20
1000	0.32
1250	0.32
1500	0.60
1750	1.20
2000	2.20
2250	3.00
2500	3.10



SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Fee

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

UPRC 17-1 SWD

9. API Well Number:

43-043-30290

10. Field and Pool, or Wildcat:

Elkhorn

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator: Union Pacific Resources Company

3. Address and Telephone Number: P.O. Box 7 - MS/3006, Fort Worth, Texas 76101-0007

4. Location of Well: Footages: 2,335' FNL, 2,052' FWL Sec. 17, T. 2N., R. 7E. CO. Sec., T., R., M.: Sec. 17, T. 2N., R. 7E.

County: Summit State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)

- Abandonment, Casing Repair, Change of Plans, Conversion to Injection, Fracture Treat, Multiple Completion, New Construction, Pull or Alter Casing, Recompletion, Shoot or Acidize, Vent or Flare, Water Shut-Off, Other step-rate pressure test

Approximate date work will start upon approval

SUBSEQUENT REPORT (Submit Original Form Only)

- Abandonment, Casing Repair, Change of Plans, Conversion to Injection, Fracture Treat, Other, New Construction, Pull or Alter Casing, Shoot or Acidize, Vent or Flare, Water Shut-Off

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

UPRC plans on conducting a step-rate pressure test to determine parting pressure of the Nugget Formation. Will request permission to increase maximum allowable injection pressure from 1500 psig to 2,500 psig depending on results of step-rate test.

Please contact the undersigned at (817) 877-7952 if additional information is needed.

OCT 3 1994

13.

Name & Signature: W.F. Brazelton

[Handwritten Signature]

Title: Sr. Regulatory Analyst

Date: 10-28-94

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 11-8-94 BY: [Signature]

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

OPERATIONS MONTH/YR: FEBRUARY, 1994

RECEIVED  
APR 4 1994

MONTHLY INJECTION REPORT - UIC FORM 3

OPERATOR : UNION PACIFIC RESOURCES  
ADDRESS : P O BOX 7  
FORT WORTH, TX 76101-0007

CORRECTED REPORT [ ]

Well Name and Number: UPRC #1

Field or Unit Name: Elkhorn

API No. 43-043-30290

Well Location: QQ\_\_ / Sec. 17 / Township 2 N / Range 7 E / County Summit

Date	Volume Disposed	Hours In Service	Maximum Pressure	Average Operating Pres.	Tubing/Casing Annulus Pres.
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	789	24	1,350	1,350	0
24	243	4	1,400	1,400	0
25	1,083	24	1,400	1,400	0
26	730	24	1,200	1,200	0
27	529	24	1,200	1,200	0
28	0	0	1,200	1,200	0
29	0				
30	0				
31	0	0			

*Commenced injection 2-23-94 J.*

Total volume injected for month 3,374  
All time cumulative volume injected 3,374

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

Name: CAROLYN FLUMAN Signature: *Carolyn Fluman*  
Title: PRODUCTION CLERK Date: MARCH 31, 1994  
Phone #: 817-877-6467



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

Michael O. Leavitt  
 Governor  
 Ted Stewart  
 Executive Director  
 James W. Carter  
 Division Director

355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, Utah 84180-1203  
 801-538-5340  
 801-359-3940 (Fax)  
 801-538-5319 (TDD)

DJJ

**UNDERGROUND INJECTION CONTROL PERMIT**

**Cause No. UIC-143**

**Operator:** Union Pacific Resources Company  
**Well:** UPRC #1  
**Location:** Section 17, Township 2 North, Range 7 East,  
 Summit County  
**API No.:** 43-043-30290  
**Well Type:** Disposal

**Stipulations of Permit Approval**

1. Approval for conversion to Injection Well issued on January 31, 1994.
2. Maximum Allowable Injection Pressure: 1500 psig
3. Maximum Allowable Injection Rate: 10,000 bbls per day

Approved by:

R.J. Firth  
 Associate Director, Oil and Gas

7/5/94

Date



**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT  
DECISION DOCUMENT**

**Applicant:** UPRC      **Well:** UPRC #1

**Location:** Sec. 17, T.2 N., R.7 E., Summit County

**Ownership Issues:**

The proposed well is located in section 17, township 2 north, range 7 east Summit County, Utah. The surface location is owned by Mr. Edward Gillmor. There are various owners and working interest owners within the 1/2 mile area, all of which have been sent a notice of intent to convert. An affidavit has been filed stating that surface and mineral owners were notified.

**Well Integrity:**

The well proposed for injection is the UPRC #1. This well has a 9 5/8" surface casing set at 1545 feet and is cemented to surface. A 5.5" production casing was set from surface to 11114 feet and cemented with 2900 sacks of cement. The cement top is estimated to be at approximately 5300 feet. The proposed zone of injection lies within the Nugget Formation at a depth of 10956-11100 feet. A 2 7/8" tubing will be set in a packer at approximately 10915 feet. This construction should adequately protect all USDW's. There are no producing or abandoned wells in the 1/2 mile area of review. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection.

**Ground Water Protection:**

The base of moderately saline water is at a depth of approximately 6288 feet located in the Kelvin Formation in the area of the proposed well. Underground sources of drinking water in the area may be present in the surface alluvium and in shallow sands within the Upper Cretaceous Formations. The upper confining zone consists of impermeable shale and limestone beds of the Twin Creek Formation and the silts,shales and salt of the Preuss Formation. The lower confining zone consists of shale, and sand stringers of the Ankara Formation. Any shallow fresh water zones will be adequately protected by the existing construction. No corrective action is needed.

**Oil/Gas & Other Mineral Resources Protection:**

Injection into this well should have no adverse affects on any offsetting production.

**Bonding:**

UPRC holds a statewide bond in the amount of \$80,000 dollars.

**Actions Taken and Further Approvals Needed:**

A public notice for the injection well will be published in both the Salt Lake Tribune and the Summit Count Bee. It is the opinion of the Division staff that approval be granted after the 15 day notice period if no objections are received. A cement bond log should be run on the 5 1/2" casing to verify the cement top. If cement has not been circulated above 6288 feet it may be necessary to squeeze cement through this zone.

DJJ  
Reviewers

01-06-94  
Date



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

Michael O. Leavitt  
 Governor  
 Ted Stewart  
 Executive Director  
 James W. Carter  
 Division Director

355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, Utah 84180-1203  
 801-538-5340  
 801-359-3940 (Fax)  
 801-538-5319 (TDD)

August 14, 1996

Union Pacific Resources  
 P.O. Box 7, MS 3600  
 Fort Worth, Texas 76101-0007

Re: Mechanical Integrity of Disposal Wells Located in Summit County, Utah

Gentlemen:

Recently mechanical integrity tests were conducted on several of Union Pacific Resources Company's ("UPRC") disposal wells located in Summit County, four of which were witnessed by Division staff members. Five of the wells, which are listed below, would not pass a pressure test and thus did not demonstrate mechanical integrity.

Clark 4-1	Sec. 4, T2N, R7E	43-043-30071
UPRC #1	Sec. 17, T2N, R7E	43-043-30290
UPRC 33-1	Sec. 33, T2N, R6E	43-043-30233
UPRC 3-5	Sec. 3, T2N, R7E	43-043-30035
UPRC 10-3	Sec. 10, T2N, R7E	43-043-30097

The Clark 4-1, UPRC #1, and UPRC 33-1 wells are Nugget Formation injectors which appear to have casing leaks while tubing and packer remain sound. These wells should be repaired so that mechanical integrity is again established and maintained. This work should be commenced within 90 days following receipt of this letter.

The UPRC 3-5 and UPRC 10-3 wells are Stump injectors which according to monthly reports are not being used for injection. The 3-5 appears to have a casing leak while the 10-3 shows evidence of tubing and casing failure. The Division and Board of Oil, Gas and Mining have previously voiced concern about injection into the Stump Formation and in fact recommended



Page 2  
Union Pacific Resources  
August 14, 1996

discontinuing this practice, letter dated August 2, 1988 and Order in Cause No. 160-14, (both available upon request). Subsequently, we recommend that UPRC give serious consideration to plugging both of these wells.

The UPRC 5-1 (Jones) well was not tested and is reportedly on the list for plugging by UPRC. Since this well has demonstrated integrity problems in the past and is not being used for injection we also encourage plugging it. *Sec. 5, 2N, 7E 43-043-30004*

If you would like to discuss the testing and/or your plans for repair of the wells, please contact me at 801-538-5297 or Dan Jarvis at 801-538-5338.

Sincerely,



Gil Hunt  
Environmental Manager, Oil & Gas

Author: Paul R. Smith at UPRC-FW-FS1  
Subject: Mechanical Integrity Testing of Pineview SWD Wells

----- Message Contents -----

Bingham & Sons #1 Pumped 65 BBLs of treated water. 1000PSI on backside and 500PSI on tbg held pressure on backside for 30 min.. Well pressure Tested OK! (when injection pumps were down the tbg pressure was 110PSI)

43-043-30295  
Sec. 2, 2N, 7E

McDonald 31-3: Pumped 3 BBLs of treated water. 1000PSI on backside and 770PSI on tbg with injection pump running. (when injection pump was down the tbg pressure went to 120PSI) Well pressure Tested OK!

43-043-30018  
Sec. 3, 2N, 7E

Clark 4-1: Pumped 29 BBLs of treated water. 1000PSI on backside and 530PSI on tbg, held pressure on backside for 30 min.. The backside bled off to 700PSI in 20 min. then held. Looks like the twin creek perfs. are still leaking because the injection pressure came up to 1125PSI at the same time. Does not look like we have communication between the tbg and annulus. Well did not pressure test!

43-043-30071  
Sec. 4, 2N, 7E

Failed MIT

UPRC #1 Exxon: Pumped 2 BBLs of treated water. 1000PSI on backside and 675PSI on the tubing with the injection pumps shutdown. Held pressure on backside for 30 min. After 10 min. the backside bled off to 900PSI we started the injection pumps and tbg pressure went to 1080PSI. After 25 min. the backside was at 775PSI the tbg was holding at 1125PSI. Looks like the Perfs. are still leaking on this well. Does not look like we have communication between the tbg and annulus. Well did not pressure test!

43-043-30290  
Sec. 17, 2N, 7E

Failed MIT

UPRR 33-1 Conoco: Pumped 390 BBLs treated water. 100PSI on backside and 635PSI on the tubing with the injection pump running. Well did not test leaking in perfs. Well did not pressure test!

43-043-30233  
Sec. 33, 2N, 6E

UPRR 3-5: Pumped 1 BBL treated water. 1000PSI on backside and 2200PSI on tbg. Pressure dropped off to 700PSI on backside pumped back up to 1000PSI on back side and shut in to go test the bingham 10-3. Backside pressure down to 550PSI in one hour. Well did not pressure test!

43-043-30035  
Sec. 3, 2N, 7E

Blonquist 26-4: Pumped 5 BBLs treated water. 1000PSI on backside and 1600 on tbg. Held pressure for 15 min. Well Pressure Tested OK!

43-043-30268  
Sec. 26, 2N, 6E

UPRR 10-3: Had 500PSI on backside and water at surface. Pumped 10 BBLs of treated water. Well did not pressure test. State would like for us to P&A this well as soon as possible.

43-043-30097  
Sec. 10, 2N, 7E

UPRR 5-1 Jones : On P&A list.

43-043-30004  
Sec. 5, 2N, 7E



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

Underground Injection Control Program  
1694 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5338  
801-359-3940 (Fax)

Daniel Jarvis  
Geologist



**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

October 15, 1996

Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
P. O. Box 14581  
1594 West North Temple - Suite 1210  
Salt Lake City, Utah 84114-5801

ATTN: Mr. Gil Hunt

**RE: Sundry Notice of Intent to Repair Casing Leak  
UPRC 17-1 SWD  
Section 17, T. 2 N., R. 7 E., SLM  
Summit Juan County, Utah**

Dear Mr. Hunt:

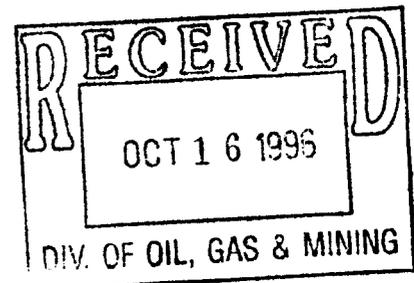
Enclosed please find one original plus one copy of a Sundry Notice of Intent to Repair Casing Leak for the above referenced well located in Summit County, Utah, along with the proposed procedure. We will appreciate your earliest consideration and approval of the request.

Please call me at (817) 877-7952, FAX (817) 87707942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY

W. F. Brazelton  
Senior Regulatory Analyst



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

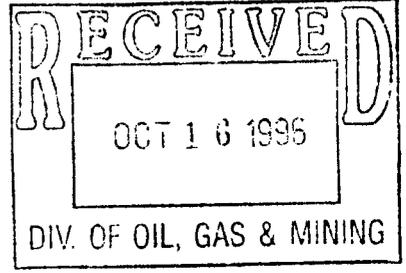
	5. Lease Designation and Serial No. <b>Fee</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals</small>	6. If Indian, Allottee or Tribe Name <b>NA</b>
	7. Unit Agreement Name <b>NA</b>
1. Type of Well: <b>OIL ( ) GAS ( ) OTHER: ( ) INJ. (X)</b>	8. Well Name and Number <b>UPRC 17-1 SWD</b>
2. Name of Operator <b>Union Pacific Resources Company ATTN: W. F. Brazelton</b>	9. API Well Number <b>43-043-30290</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877- 7952 (-6000 Main Number)</b>	10. Field and Pool, or Wildcat <b>Elkhorn</b>
4. Location of Well	
Footages <b>2335' FNL, 2052' FWL Sec. 17, T. 2 N., R. 7 E.</b>	County <b>Summit</b>
<b>QQ, Sec., T., R., M. NSEW Sec. 17, T. 2 N., R. 7 E.</b>	State <b>Utah</b>

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

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input checked="" type="checkbox"/> Other: Sundry Request	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input type="checkbox"/> Other _____  Date of work completion _____  <small>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>
Approximate date work will start: Upon Approval	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Union Pacific Resources Company proposes to attempt to repair the casing in the UPRC 17-1 SWD according to the accompanying procedure. We will appreciate your prompt consideration and approval of this request.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.  
Name/Signature: W. F. Brazelton *W. F. Brazelton* Title: Senior Regulatory Analyst Date: 96-10-15

(This space for State use only)  
*Matthews* Petroleum Engineer 10/17/96

# UPRC #1

**Objective:** To place a Mara-Seal treatment in the Watton and/or Slide Rock formations in order to provide a positive surface pressure test of 1,000 psi as per the state of Utah.

**Info:** See attached well schematic. The well was recently injected into the annulus where it was found to have an injection rate of 0.5 - 1.0 BPM into the Watton and/or Slide Rock formation.

<b><u>Field :</u></b>	Elkhorn	<b><u>Max. Surface Press. :</u></b>	5,500 psi **Check Wellhead Rating
<b><u>Location :</u></b>	Sec. 17 T2N R7E	<b><u>BHST (Est.) :</u></b>	185 ° F
<b><u>County / State :</u></b>	Summit Co., Utah		

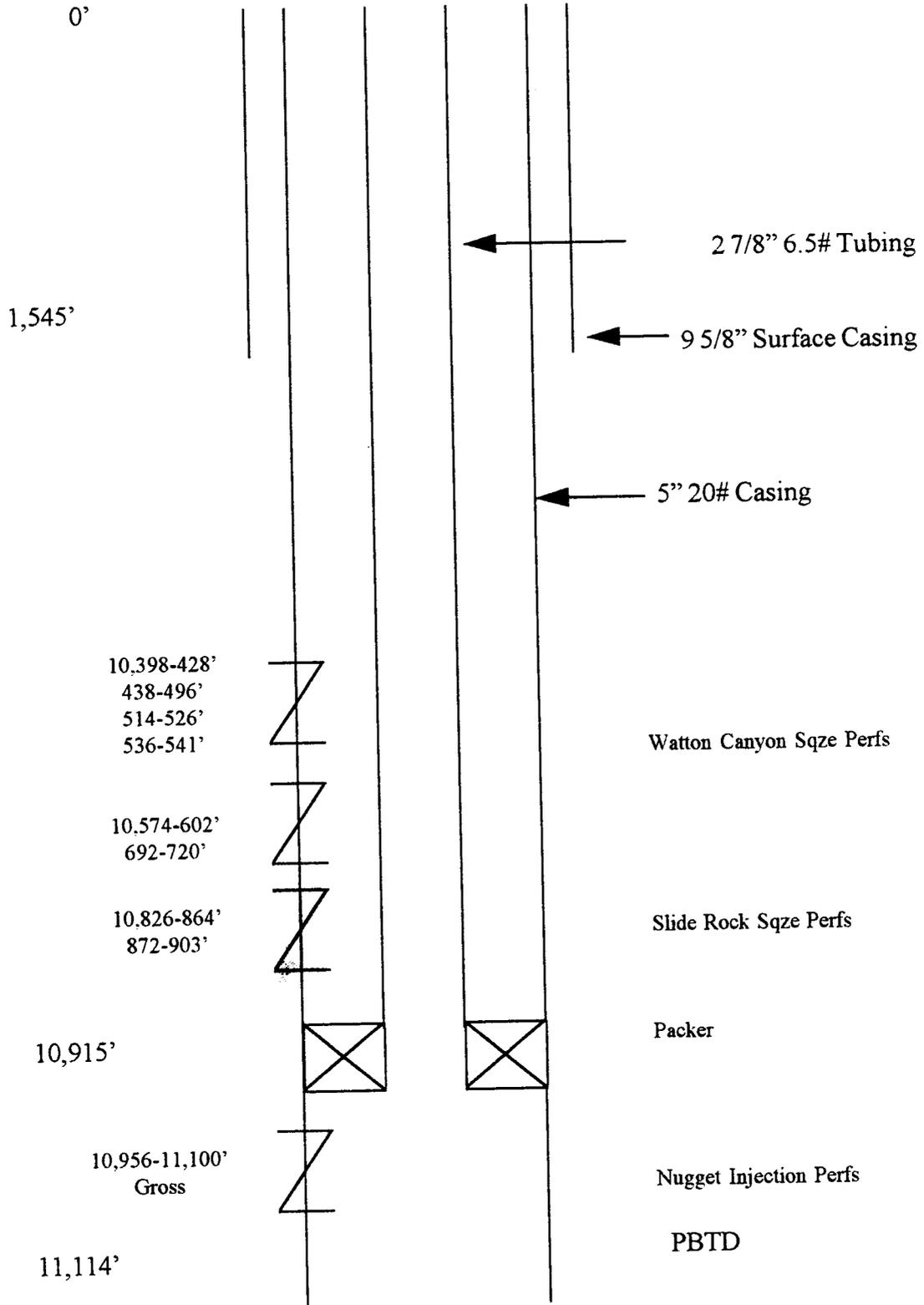
## **Procedure:**

1. RU Dowell to annulus. Continue water disposal in the Nugget in order to ensure that Mara-Seal does not channel behind casing.
2. Test Lines.
3. Pump 5 BBL's water to ensure tree is correct and establish injection rate.
4. Pump 135 BBL's Mara-Seal . Attempting to place 113 BBL's Mara-Seal in the formation and 22 BBL in the Tubing Annulus.
5. Displace with 131 BBL's water.
6. RD Dowell and allow Mara-Seal 2 Days to crosslink.

Use the following concentrations:

- J492 - 18.4 #/BBL (5 %)      Gelling Agent
- J491 - 0.39 gal/BBL          Crosslinker
- J493 - 0.95 gal/BBL          Delay Agent

# UPRC#1





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

Michael O. Leavitt  
Governor  
Ted Stewart  
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 27, 1999

Union Pacific Resources Company  
Attn: Dorothy Moravek  
P.O. Box 7 MS 29-3006-01  
Fort Worth, Texas 76101-0007

Re: Notification of Sale or Transfer of Fee Lease Interest

The Division has received notification of a change of operator from Union Pacific Resources Co. to Citation Oil & Gas Corporation for the following well(s) which are located on a fee lease:

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
Bingham 1-43-3	03-02N-07E	43-043-30029
Judd 34-3	34-02N-06E	43-043-30098
Judd 34-1	34-02N-06E	43-043-30061
UPRR 3-1	03-02N-07E	43-043-30012
UPRR 3-2	03-02N-07E	43-043-30015
UPRR 3-6	03-02N-07E	43-043-30036
UPRR 3-9	03-02N-07E	43-043-30151
Bingham 2-1	02-02N-07E	43-043-30026
Bingham 2-1A	02-02N-07E	43-043-30125
Bingham 2-2	02-02N-07E	43-043-30028
Bingham 2-3	02-02N-07E	43-043-30033
Bingham 2-4	02-02N-07E	43-043-30038
Bingham 10-1	10-02N-07E	43-043-30025
Pineview 4-3	04-02N-07E	43-043-30077
Pineview 4-4S	04-02N-07E	43-043-30083
Blonquist 26-3	26-02N-06E	43-043-30235
Newton Sheep 1	18-02N-07E	43-043-30284
UPRR 1H 19-2X	19-02N-07E	43-043-30300
Judd 34-1H	34-02N-06E	43-043-30301
UPRR 3-10	03-02N-07E	43-043-30302
UPRR 17-2H	17-02N-07E	43-043-30304

Page 2  
Dorothy Moravek  
Notification of Sale  
January 27, 1999

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
UPRR 35-2H	35-02N-06E	43-043-30305
Newton Sheep 20-1H	20-02N-07E	43-043-30310
Judd 4-1H	04-01N-06E	43-043-30311
Blonquist 26-1H	26-02N-06E	43-043-30314
Bingham 2-6H	02-02N-07E	43-043-30317
UPR 3-11H	03-02N-07E	43-043-30318
Blonquist 26-4	26-02N-06E	43-043-30268
UPRC 33-1	33-02N-06E	43-043-30233
Clark 4-1	04-02N-07E	43-043-30071
UPRC 1	17-02N-07E	43-043-30290
B.A. Bingham & Sons 1	02-02N-07E	43-043-30295

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Union Pacific Resources Co. of its responsibility to notify all individuals with an interest in this lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association  
Box 1292  
Roosevelt, Utah 84066

Page 3  
Dorothy Moravek  
Notification of Sale  
January 27, 1999

Your assistance in this matter is appreciated.

Sincerely,

A handwritten signature in black ink that reads "Kristen D. Risbeck". The signature is written in a cursive style with a large, prominent "K" and "R".

Kristen D. Risbeck

cc: Citation Oil & Gas Corporation  
Utah Royalty Owners Association, Kent Stringham  
John R. Baza, Associate Director  
Operator File(s)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>	5. Lease Designation and Serial No. Fee
	6. If Indian, Allottee or Tribe Name NA
	7. Unit Agreement Name NA
	8. Well Name and Number Exxon (UPRC) #1 SWD
1. Type of Well: OIL ( X )    GAS ( )    OTHER: ( ) INJ. ( )	9. API Well Number 43-043-30290
2. Name of Operator Union Pacific Resources Company	10. Field and Pool, o Elkhorn
3. Address and Telephone Number P. O. Box 7 MS 29-3006-01 Fort Worth, Texas 76101-0007 Telephone (817) 321-6739	

4. Location of Well

Footages	2335' FNL, 2052' FWL	County	Summit
QQ, Sec., T., R., M.	(SENW) Sec. 17, T2N-R7E	State	Utah

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

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input checked="" type="checkbox"/> Other: <b>Change of Operator</b>	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input type="checkbox"/> Other _____  Date of work completion _____  <small>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>
Approximate date work will start: Upon Approval	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

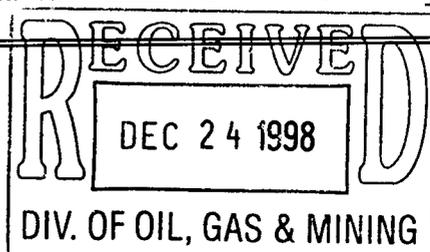
Union Pacific Resources Company has sold the captioned well to Citation Oil & Gas Corp. P. O. Box 690688, Houston, Texas 77269-0688 and requests that Citation be named Operator of Record effective January 1, 1999. Please release this well from coverage under Union Pacific Resources Company's Utah Statewide Bond #2447222.

On behalf of Union Pacific Resources Company I hereby certify that the foregoing is true and correct:  
 Dorothy Moravek *D Moravek* Title: Regulatory Analyst Date 12-18-98

By execution of this document, Citation Oil & Gas Corp. requests the State of Utah to approve it as Operator of Record for the above captioned well. Citation accepts responsibility for this well under it's Utah Statewide Bond #587800.

13. On behalf of Citation Oil & Gas Corp. I hereby certify that the foregoing is true and correct:  
 Robert T. Kennedy *Robert T Kennedy* Title: Vice President-Land Date: 12-22-98

(This space for State use only)  
  
(12/92)



```

01/19/99                D E T A I L   W E L L   D A T A                menu: opt 00
api num: 4304330290      prod zone: NGSD          sec   twnshp   range   qr-qr
entity: 10860 : UPRC #1          17   2.0 N   7.0 E   SENW
well name: UPRC 1
operator: N9465 : UNION PACIFIC RESOURCES CO          meridian: S
field: 2 : UNDESIGNATED
confidential flag: confidential expires: alt addr flag:
      * * * application to drill, deepen, or plug back * * *
lease number: FEE          lease type: 4          well type: OT
surface loc: 2335 FNL 2052 FWL unit name:
prod zone loc: 2100 FSL 2500 FEL depth: 11200 proposed zone: NGSD
elevation: 6756' GR          apd date:          auth code:
* * completion information * * date recd: 940308 la/pa date:
spud date: 931207          compl date: 940224 total depth: 11121'
producing intervals: 10950-11110'
bottom hole: 2298 FSL 2592 FWL first prod: 940224 well status: WDW
24hr oil: 24hr gas:          24hr water:          gas/oil ratio:
      * * well comments:          directionl: D          api gravity:
931210 RECOMPL/CONV WDW;SEE ALSO TWNCR:

```

```

opt: 21 api: 4304330290 zone:          date(yymm):          enty          acct: N9465

```

# OPERATOR CHANGE WORKSHEET

Routing:	
1-KDR ✓	6-KAS ✓
2-PLH ✓	7-SJ ✓
3-JRB ✓	8-FILE ✓
4-CDWL ✓	
5-KDR ✓	

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 1-1-99

<b>TO: (new operator)</b> (address) <u>CITATION OIL &amp; GAS CORP</u> <u>P.O. BOX 690688</u> <u>HOUSTON, TX 77269-0688</u>  <u>RUTH ANN ALFORD</u> Phone: <u>(281) 469-9664</u> Account no. <u>N0265</u>	<b>FROM: (old operator)</b> (address) <u>UNION PACIFIC RESOURCES CO</u> <u>P.O. BOX 7 MS 29-3006-01</u> <u>FORT WORTH, TX 76101-0007</u>  <u>DOROTHY MORAVEK</u> Phone: <u>(817) 321-6739</u> Account no. <u>N9465</u>
--	---

**WELL(S)** attach additional page if needed:

Name: <u>*SEE ATTACHED*</u>	API: <u>43-043-30290</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

- KDR 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 12.24.98)*
- KDR 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 12.24.98)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- N/A 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- KDR 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(3.11.99)*
- KDR 6. Cardex file has been updated for each well listed above.
- N/A 7. Well file labels have been updated for each well listed above. *(\*new filing system)*
- KDR 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(3.11.99)*
- KDR 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- WDP 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- WDP 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- WDP 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.  
(rec'd 2-11-99 Bond # RSB-670565)
- WDP 2. A copy of this form has been placed in the new and former operator's bond files.
- WDP 3. The FORMER operator has requested a release of liability from their bond (yes/no) YES, as of today's date \_\_\_\_\_ If yes, division response was made to this request by letter dated 3-10-99.

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on \_\_\_\_\_ to \_\_\_\_\_ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- WDP 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 1-27-99 19 \_\_, of their responsibility to notify all interest owners of this change.

**FILMING**

- WDP 1. All attachments to this form have been microfilmed. Today's date: 5-12-99.

**FILING**

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

**COMMENTS**

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March 29, 1999

Kristen Risbeck  
State of Utah  
P O Box 145801  
Salt Lake City, Utah 84114-5801

Re: Transfer of Authority to Inject

Dear Ms. Risbeck:

Enclosed please find an original and one copy of the form 5 to transfer the following wells into Citation Oil & Gas Corp.'s name.

UPRC 33-1 SWD	43-043-30233
Blonquist 26-4 SWD	43-043-30268
Clark 4-1 SWD	43-043-30071
Exxon UPRC #1 SWD	43-043-30290
B. A. Bingham & Sons Inc. #1	43-043-30295

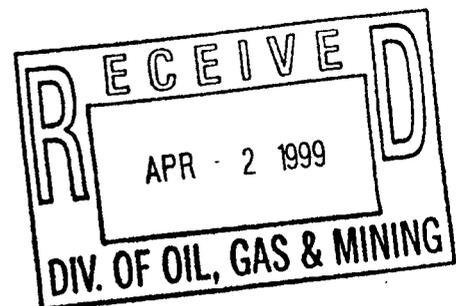
If you have any questions regarding this form, please contact the undersigned at 281-469-9664.  
Thank you.

Sincerely,

*Sharon Ward*

Sharon Ward  
Regulatory Administrator

Cc: Dorothy Moravek  
UPRC



TRANSFER OF AUTHORITY TO INJECT -

UIC FORM 5

Well name and number: Exxon (UPRC) #1 SWD

Field or Unit name: Elkhorn API No. 43-043-30290

Well location: QQ SENW Section 17 Township 2N Range 7E County Summit

Effective Date of Transfer: January 1, 1999

CURRENT OPERATOR

Transfer approved by:

Name	<u>Dorothy Moravek</u>	Company	<u>Union Pacific Resources Company</u>
Signature	<u><i>Dmoravek</i></u>	Address	<u>P. O. Box 7, MS 29-3006-01</u>
Title	<u>Regulatory Analyst</u>		<u>Fort Worth, Texas 76101</u>
Date	<u>March 23, 1999</u>	Phone	<u>( 817 ) 321-6739</u>

Comments:

NEW OPERATOR

Transfer approved by:

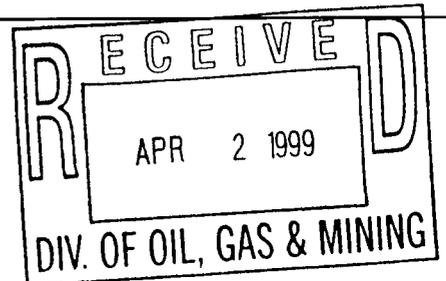
Name	<u>Sharon Ward</u>	Company	<u>Citation Oil &amp; Gas Corp.</u>
Signature	<u><i>Sharon Ward</i></u>	Address	<u>P. O. Box 690688</u>
Title	<u>Regulatory Administrator</u>		<u>Houston, Texas 77269-0688</u>
Date	<u>March 29, 1999</u>	Phone	<u>(281) 469-9664</u>

Comments:

(State use only)

Transfer approved by *[Signature]* Title *Tech. Services Manager*

Approval Date *4-8-99*



STATE OF UTAH  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: 4/23/97	Well Owner/Operator: UNION PACIFIC RESOURCES
Disposal Well: YES	Enhanced Recovery Well: _____ Other: _____
API No.: 43-043 <sup>30290</sup>	Well Name/Number: UPRC # 1 EXXON
Section: 17	Township: 2N Range: 7E

Initial Conditions:

Tubing - Rate: \_\_\_\_\_ Pressure: 0 psi  
 Casing/Tubing Annulus - Pressure: 4100 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	① 1000 #	② 0
5	1040 #	5 0
10	1080 #	10 0
15	1080 #	15 0
20	1100 #	0
25	1100 #	0
30	1120 #	0

*Paul - decided to bleed off to 0 #s and run 15 min test, pressured to 1000 #s.*

Results: Pass/Fail

*Bled well off to 0 #s - pressured up 1000 #s.*

Conditions After Test:

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

REMARKS:

*Well has 4000 #s on backside, will bleed off 1000 #s. Bled off to 1000 #s started @ 12:20. Gained 120 #s in 30 minutes. Used Mara-seal to squeeze leaks in tubing. May have had some movement in Mara-seal, when initial 4000 #s was bled off.*

*Paul Smith*  
 Operator Representative

*Jimmy Thompson 4/23/97*  
 DOGM Witness

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: <input checked="" type="checkbox"/>	5. Lease Designation and Serial Number: <b>Fee</b>
2. Name of Operator <b>Citation Oil &amp; Gas Corp.</b>	6. If Indian, Allottee or Tribe Name: <b>N/A</b>
3. Address and Telephone Number: <b>P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194</b>	7. Unit Agreement Name: <b>N/A</b>
4. Location of Well Footages: <b>2335' FNL &amp; 2052' FWL</b> QQ, Sec., T., R., M.: <b>SE NW; Sec. 17, T2N, R7E</b>	8. Well Name and Number: <b>UPRC 17-1 SWD</b>
	9. API Well Number: <b>43-043-30290</b>
	10. Field and Pool, or Wildcat: <b>Ekhorn (Nugget)</b>
	County: <b>Summit</b> State: <b>Utah</b>

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)																										
<table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment*</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Change in well status</u></td> <td></td> </tr> </table>	<input type="checkbox"/> Abandonment*	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Change in well status</u>	
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<input checked="" type="checkbox"/> Other <u>Change in well status</u>																											
Approximate date work will start _____	Date of work completion <u>7/18/2001</u>																										
	Report results of <b>Multiple Completions and Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form * Must be accompanied by a cement verification report.																										

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  
**This well was shut in on 10/2/99. It has been reactivated 7/18/2001.**

RECEIVED

JUL 20 2001

DIVISION OF  
OIL, GAS AND MINING

13. Name & Signature: *Debra Harris*    **Debra Harris**    Title: Prod./Regulatory Coord.    Date: 8/23/2001

(This space for State use only)

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



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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
(801) 359-3940 fax  
(801) 538-7223 TTY  
www.nr.utah.gov

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

August 28, 2002

Val Meadows  
Citation Oil and Gas Corporation  
3603 East Chalk Creek Road  
Coalville UT 84017

Re: Pressure Test for Mechanical Integrity, UPRC 1 Well, Section 17, Township 2 North, Range 7 East, Summit County, Utah

Dear Val:

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 once in every five-year period beginning in October 1982. Please make arrangements and ready the well for testing during the week of September 23rd or September 30th as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as 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 wells to be tested on this date the tests may be rescheduled.
4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Page 2

Citation Oil and Gas Corporation

August 28, 2002

Please contact me at (801) 538-5296 to arrange a meeting time and place or negotiate a different date, if this one is unacceptable.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Cordova".

Lisha Cordova  
Reclamation Specialist

er



**RECEIVED**

NOV 15 2002

DIVISION OF  
OIL, GAS AND MINING

November 6, 2002

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

Attn: Mr. Dan Jarvis

Re: Variance from MIT Testing Per Utah Rule R649-9-8  
UPRC #1 API # 43-043-30290  
Elkhorn Field  
Summit County, Utah

Dear Commission:

Citation Oil and Gas Corp. respectively requests a one year variance on pressure testing the UPRC #1 well to allow time to complete its waterflood study of the Elkhorn field. During the pretest the packer displayed a slight leak. Citation is currently evaluating the waterflood potential of the Elkhorn field and should this study conclude that the field has waterflood potential, Citation will most likely need the UPRC #1 SWD for this project. Until this study is completed or the well passes an MIT test, the UPRC #1 well will remain shut-in.

If you have any questions, or require additional information, please contact the undersigned at 281-517-7309. Thank you.

Respectfully Requested,

Sharon Ward  
Regulatory Administrator

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File \_\_\_\_\_  
\_\_\_\_\_ ufile #1 \_\_\_\_\_  
(Loc.) Sec 17 Twp 2N Rng. 7E  
(API No.) 43-043-30290

Suspense \_\_\_\_\_  
(Return Date) \_\_\_\_\_  
 Other \_\_\_\_\_  
(To-Initials) \_\_\_\_\_

1. Date of Phone Call: 11-15-2002 Time: 11:00

2. DOGM Employee (name) J. Cordova ( Initiated Call)  
Talked to:  
Name Sheila Ward ( Initiated Call) - Phone No. (281) 517-7800  
of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: Reg follow-up repair info. (1996)  
Casing repair intent approved 10-17-96.

4. Highlights of Conversation:  
MIT 4/23/97 1000# 15 min. Passed following repair.  
MIT 10/29/02 (PAT Survey) Failed, SI 11/2001 - Current  
X Rec'd repair info. 1-6-2003  
\* Operator requesting a one-year variance on pressure  
testing, 1 yr. SI, until waterflood study completed.  
(see follow-up info.)



IMIT EMIT MIT Tests

API Well No: 43-043-30290-00-00

Multiple Tests for This Well >>>

10/29/2002 00:00  
 04/23/1997 00:00  
 08/08/1996 00:00  
 01/13/1994 00:00

IMIT Test Date/Time: 10/29/2002 0:00 Reason For Test: 5-year Test

Data for Wells Using APM Type of IMIT Date to edit/view data for this well:

Ann. Mon. Result: Other Internal MIT

Initial Test Pressure: psig Test Result: Failure Well Status: Static

Final Test Pressure: psig Witnessed? Yes Inj. Pressure: psig

Duration of Test: min. Insp. Name: Lisha Cordova Inj. Rate: BPD

Repair Due Date: Type of IMI Failure:

Repair Completion Date: Cause of IMI Failure:

Result of Repair: Date Mod:

Notes: RAT Survey; fluid level 1400' in tubing prior to test; hot oil truck hooked up to tbg & began pumping at 1/4 bpm-surf pressure 500 psi; test indicates that some fluid leaks up past pkr and exits perf'd intervals @10826-10864' and 10872-10903' (perfs cmt sq'd in 1997) the remainder fluid moves down and exits perfs @10956-

Record: 1 of 4

← → FAVORITES GO

By Well **By Proj/Fcilty** **UIC Monitor** API Filter

Well Name:  Operator:

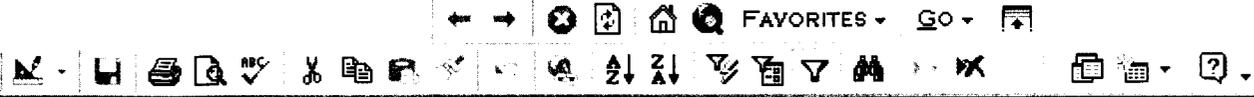
County:

API Well No:  Well Type:  Inj. Fluid Type:  Ann. Fluid Type:

Max. Allowable Inj. Pressure:

Year:  **Injection Well Monitoring Data by Month**

MO	Adj	DIq	Days	Pt(mx)	Pa(mx)	Fluid	Dt Mod
1	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	03/05/2001
2	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	04/03/2001
3	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	05/03/2001
4	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	06/04/2001
5	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	07/02/2001
6	<input type="checkbox"/>	<input type="checkbox"/>	0	1400	0	0	08/06/2001
7	<input type="checkbox"/>	<input type="checkbox"/>	13	1400	0	480	09/06/2001
8	<input type="checkbox"/>	<input type="checkbox"/>	3	1400	0	44	10/01/2001
9	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	11/06/2001
10	<input type="checkbox"/>	<input type="checkbox"/>	5	0	0	183	12/13/2001
11	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	01/09/2002
12	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	02/11/2002
*	<input type="checkbox"/>	<input type="checkbox"/>					



By Well By Proj/Fcilty **UIC Monitor** API Filter 43-043-30290-00-00

Well Name: [REDACTED] Operator: [REDACTED]  
 County: [REDACTED]  
 API Well No: 43-043-30290-00-00 Well Type: [REDACTED] Inj. Fluid Type: [REDACTED] Ann. Fluid Type: [REDACTED]  
 Max. Allowable [REDACTED]  
 Inj. Pressure: [REDACTED]

Year: 2002

Injection Well Monitoring Data by Month

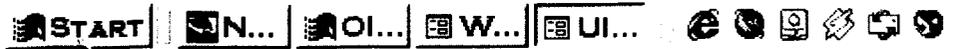
MO	Adj	DIq	Days	Pt(mx)	Pa(mx)	Fluid	Dt Mod
1	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	03/04/2002
2	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	04/09/2002
3	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	04/29/2002
4	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	07/08/2002
5	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	07/08/2002
6	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	08/05/2002
7	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	09/04/2002
8	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	10/08/2002
9	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	11/04/2002
10	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0	0	12/06/2002
*	<input type="checkbox"/>	<input type="checkbox"/>					

Record: 1 of 10

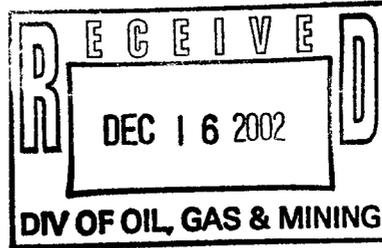
API Well Number

FLTR

NUM



December 11, 2002



Attn: Lisha Cordova  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

RE: UPRC #1 Injection Profile

Dear Ms. Cordova:

Enclosed is a copy of the injection profile you requested on December 10, 2002. After talking to John Long, I discovered that the injection profile had been sent to one of our engineers here in the Houston office. Sorry for the delay.

If you require additional information, please contact the undersigned, at 281-517-7309. Thank you.

Sincerely,

  
Sharon Ward  
Regulatory Administrator  
Citation Oil & Gas Corp.



**Fax Cover Sheet**

*Sorry about the first one!*

DATE: January 6, 2003

TO: LISHA CORDOVA  
State of Utah - DOGM

PHONE: (801) 538-5340  
FAX: (801) 359-3940

FROM: Debra Harris  
Production Department

PHONE: (281) 517-7194  
FAX: (281) 469-9667

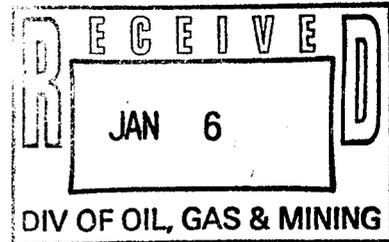
Number of pages including cover sheet: ~~2~~ 1

Message:

Per our conversation this morning concerning the UPRC #1 (Exxon), I am faxing Union Pacific Resources daily workover reports which followed the Notice of Intent to repair the casing in this well approved by your office on 10/17/1996. I believe this Mara-Seal treatment and the following MIT should answer your questions concerning follow-up to the sundry.

Thanks for sending the additional correspondence which was missing from our well file and please let me know if you need additional information.

Debra Harris  
Production/Regulatory Coordinator



# Union Pacific Resources

Day # 3

23-Apr-97

## Daily Completion and Workover Report

Proposed Work: Mechanical Integrity Test

PC: Land Grant

Lea: UPRC #1 SWI

Rig:

Team: Overthrust

Field: Elkhorn

Supervisor: Taibott / Smith

### Casing & Tubing

OD	WT	Grade	Remarks
----	----	-------	---------

5-1/2"	20 L80	9936'	- 11,112'
2-7/8"	6.5 N-80	347 lbs	Duoline 2 tbg @ 10853.91'
Packer Detail		Anchor set @	
MD Type	Remarks		
10921R-3			

### Operations

From To

From	To	Remarks
08:30		MIRU Hot-Co
		Bleed Pressure off of the annulus
		Held 1000 PSI on annulus with 0 PSI on tbg
		Pressure built to 1100 PSI in 30 min.
		Bleed pressure off to 0 PSI
		Pumped pressure back up to 1000 PSI on annulus
		Pressure held @ 1000 PSI for 15 min.
		The mats seal might have been shifting from the
		pressure drop on the frist test after it was stable the
		pressure did not change.
		Jim Thompson with the state of Utah was the witness!

### BHA

Qty	Description	Length
1	KB	20.00
1	ft 2-7/8" 6.5# N80 Duoline	31.39
1	pup	8.15
346	ft 2-7/8" 6.5# N80 Duoline	10853.91
1	R-3 DG pkr	7.26
1	WLEG	1.23

Total BHA 10821.93

### Costs

Qty	Description	Cost
	RIG	\$0.00
	Weatherford	\$0.00
	Trucking	\$0.00
	Dowell / Schlumberger	\$0.00
	Dalbo	\$120.00
	Hot-Co	\$200.00
	Dowell / Schlumberger	\$0.00
	Contingency 5%	\$0.00
	Supervisor	\$250.00
		\$0.00
	Total Daily Cost	\$570.00
	Cumulative Cost to Date	\$17,116.40





WELL SCHLUMBERGER INCORPORATED

DS-488-A PRINTED IN U.S.A.

WELL NAME AND NO. UDDAL #1 LOCATION (LEGAL) 117/25W/19E RIG NAME: AONE

FIELD-POOL Superior FORMATION Watten Limestone WELL DATA: BOTTOM TOP

COUNTY/PARISH Louisiana STATE LA API. NO. - BIT SIZE 8 1/2 OSG/Liner Size 8 1/2

NAME Down Arrow Services AND - ADDRESS - ZIP CODE -

SPECIAL INSTRUCTIONS Run MD and Misc-Lia down Annulus

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE - PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT 4000 PSI BUMP PLUG TO - PSI

ROTATE - RPM RECIPROCATATE - FT No. of Centralizers -

Head & Plugs  Double  Single  Knifecoff

SIZE 2 3/4 WEIGHT 4.5 GRADE API THREAD API

TOE  OR  NEW  USED DEPTH 12.915

SOUEEZE JOB  TAIL PIPE: SIZE - DEPTH -

TUBING VOLUME - CASING VOL. BELOW TOOL - TOTAL - ANNUAL VOLUME -

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
0840											
0849	-	5000	-	-	-	H <sub>2</sub> O	8.4				
0853	1020	2170	5	5	1	H <sub>2</sub> O	8.3				
0901	1025	2260	140	145	0.5	MARR SEAL	-				
1822	#	2805	44.7	189.7	0.4	H <sub>2</sub> O	8.4				
1828	#	4240	#	189.7	-	-	-				
1818	#	5985	-	-	-	-	-				

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBL'S	DENSITY
1.								
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE - VOLUME - DENSITY - PRESSURE MAX. 6010 MIN. 1

HEBITATION SO.  BURNING SO.  CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO - Bbl's

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 44.7 Bbl's TYPE OF WELL  OIL  STORAGE  BRINE WATER  GAS  INJECTION  WILDCAT

Washed Thru Parts  YES  NO TO FT. MEASURED DISPLACEMENT 44.7  WIRELINE

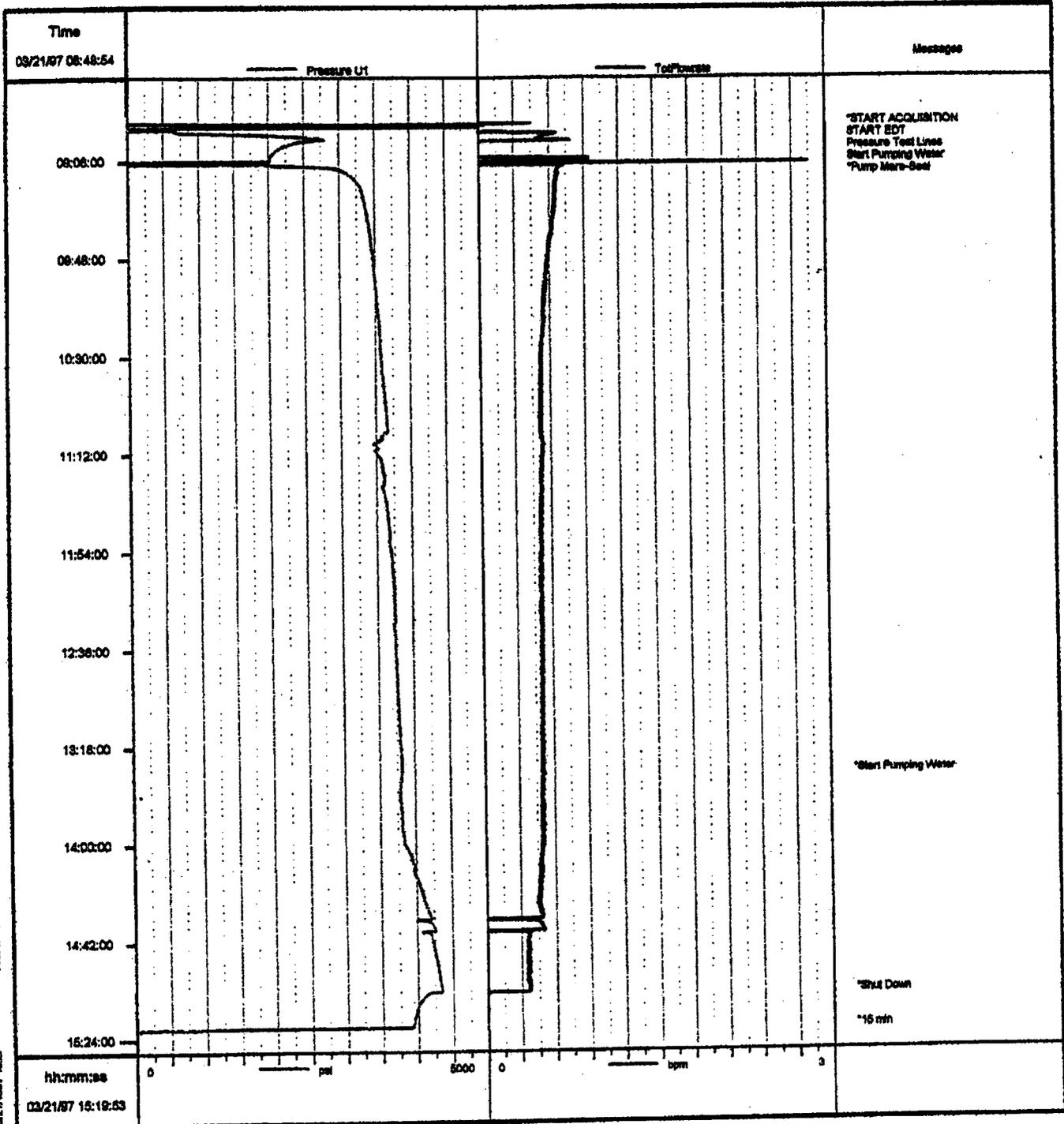
PERFORATIONS TO TO CUSTOMER REPRESENTATIVE Paul Smith DS SUPERVISOR DAVE WELBY



Cementing Job Report

PRISM V2.2

Well	UPRC #1	Client	Union Pacific Resources
Field	Pineview	SIR No.	1500-2639
Country	U.S.A.	Job Date	3/21/97 8:48:54 AM



Job: dhw26391

03/21/97 15:27

\* Mark of Schlumberger

# Union Pacific Resources

Draw # 1

16 Apr 97

Daily Completion and workover Report  
 Proposed Work: Pressure Test CSG / Establish Injection Rate

PC: Land Grant

Team: Overthrust

Loc: UPRC #1 SW1

Field: Elkhorn

Rig: Summit

Supervisor: Talbott / Smith

## Casing & Tubing

OD	WT	Grade	Remarks
----	----	-------	---------

5-1/2"	20 L80	9035' - 11,112'	
2-7/8"	6.5 N-80	347 Jts Duoline 2 tbg @ 10853.91'	
Packer Detail		Anchor set @	
MD Type		Remarks	
10821R-3			

## Operations

From To

## BHA

From To	Operations	Qty	Description	Length
08:30	MIRU Pump			
	tbg had 80 PSI			
	CSG 175 PSI			
	bleed CSG off to 0 PSI			
	Pumping down back side			
	.65 BPM @ 2500 PSI	1	KB	20.00
	1.30 BPM @ 3000 PSI	1	Jt 2-7/8" 6.5# N80 Duoline	31.39
	Pressure started to build cut back on rate to .60 BPM	1	pup	8.15
	.60 BPM @ 3000 PSI	346	Jt 2-7/8" 6.5# N80 Duoline	10853.91
	Does Not appear to have tbg leak	1	R-3 DG pkr	7.25
		1	WLEG	1.23
			<b>Total BHA</b>	<b>10921.93</b>

## Costs

Qty	Description	Cost
	RIG	\$400.00
	Weatherford	\$0.00
	Trucking	\$715.00
	Roustabouts	\$0.00
	Dalbo	\$100.00
	Centralift	\$0.00
	Dowell / Schlumberger	\$0.00
	Contingency 5%	\$120.00
	Supervisor	\$250.00
		\$0.00
	<b>Total Daily Cost</b>	<b>\$1,585.00</b>
	<b>Cumulative Cost to Date</b>	<b>\$1,585.00</b>

\*\*\*\*\* P. 01 \*\*\*\*\*

TRANSACTION REPORT

JAN-06-2003 MON 10:17 AM

FOR: OIL, GAS & MINING 801 359 3940

DATE START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-06 10:14 AM	12814699667	2' 25"	9	SEND	OK	896	
TOTAL :					2M 25S	PAGES:	9

\*\*\*\*\*



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

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)

Michael O. Leavitt  
 Governor  
 Lowell P. Braxton  
 Division Director

**DIVISION OF OIL, GAS AND MINING  
 FACSIMILE COVER SHEET**

DATE: Jan. 6, 2003

FAX #: 281-469-9667

ATTN: Debra Harris

COMPANY: Citation O&G

DEPARTMENT: \_\_\_\_\_

NUMBER OF PAGES: (INCLUDING THIS ONE) 9

FROM: Lisha Cordova



PRODUCTION  
LOGGING  
SERVICES, INC

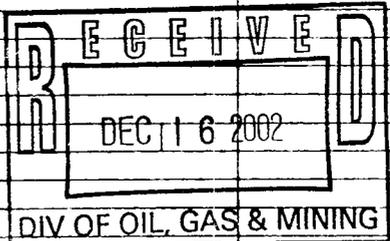
# INJECTION PROFILE

43-043-30290

COMPANY CITATION OIL AND GAS CORPORATION WELL U.P.R.C. #1  FIELD ELKHORN CNTY SUMMIT STATE UT	COMPANY CITATION OIL AND GAS CORPORATION	
	WELL U.P.R.C. #1	
	FIELD ELKHORN	
	COUNTY SUMMIT STATE UT	
LOCATION: 2335' F.N.L. & 2052' F.W.L. SE NW		OTHER SERVICES: WDI
SEC. 17 TWP. 2N RGE. 7E		

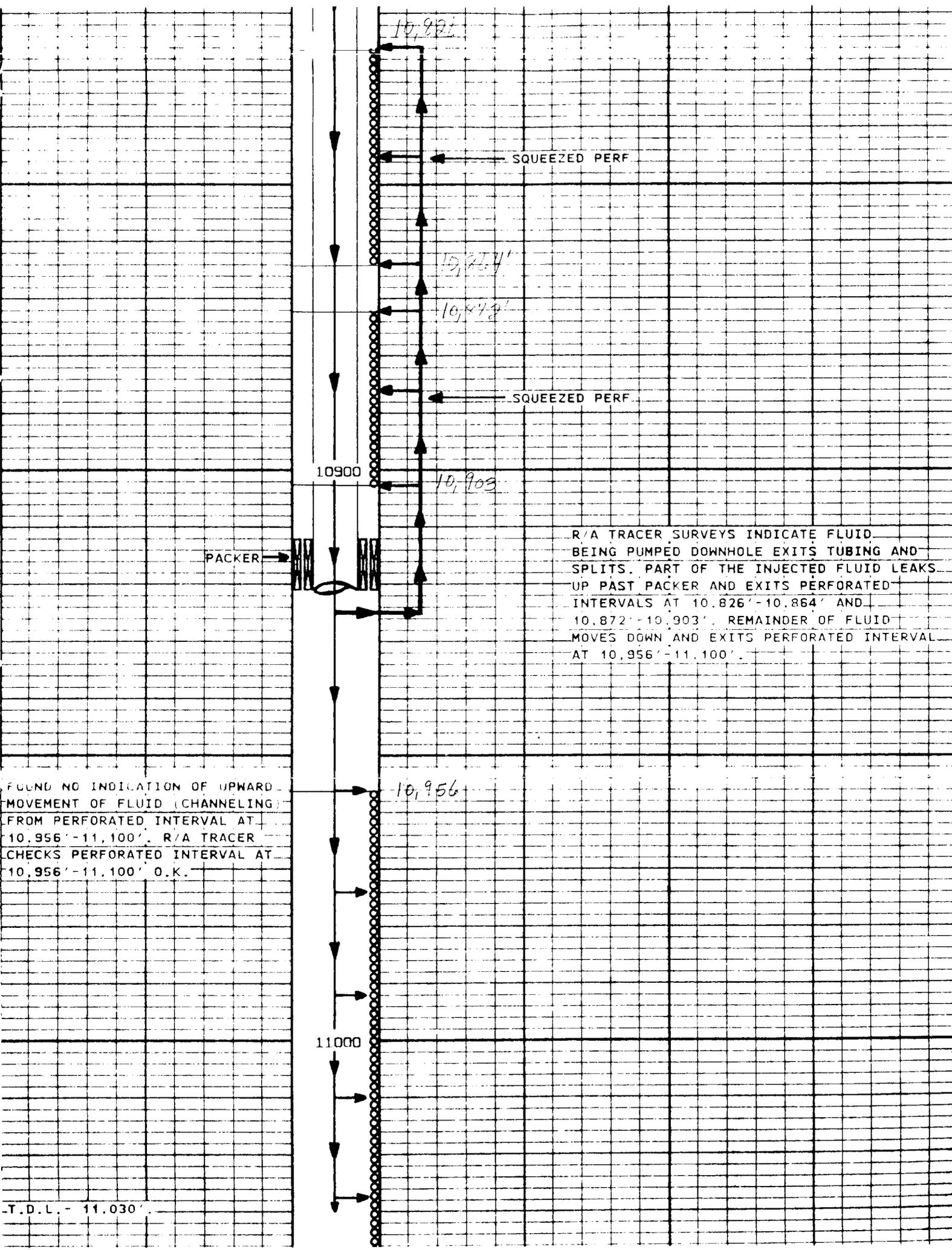
PERM. DATUM <u>GROUND LEVEL</u>	ELEV. <u>6773'</u>	ELEV.: K.B. <u>6773'</u>
LOG MEASURED FROM <u>K.B. 22</u> FT. ABOVE PERMANENT DATUM		D.F. <u>6772'</u>
DRILLING MEASURED FROM <u>K.B.</u>		G.L. <u>6751'</u>

DATE	29-OCT.-2002
RUN NO.	ONE
DEPTH DRILLER	11,114'
DEPTH LOGGER	11,030'
BTM. LOG INTERVAL	11,030'
TOP LOG INTERVAL	9,945'
OPEN HOLE SIZE	
TYPE FLUID	WATER
DENS.	VISC.
MAX. REC. TEMP. °F	214
EST. CEMENT TOP	
TIME WELL READY	
TIME LOGGER ON BTM.	
EQUIP. NO.	14
LOCATION	VERNAL
RECORDED BY	K. STRATTON
WITNESSED BY	MR. VAL MEADOWS



BOREHOLE RECORD				TUBING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				2 7/8"	6.5	SURF.	10,921'

CASING RECORD	SIZE	WT/FT	GRADE	TYPE JOINT	TOP	BOTTOM
SURFACE STRING	9 5/8"				SURF.	1,543'
PROD. STRING	5 1/2"	20#			SURF.	11,114'
LINER						



10,982'

SQUEEZED PERF

10,974'

10,972'

SQUEEZED PERF

10900

10,903'

PACKER

R/A TRACER SURVEYS INDICATE FLUID BEING PUMPED DOWNHOLE EXITS TUBING AND SPLITS. PART OF THE INJECTED FLUID LEAKS UP PAST PACKER AND EXITS PERFORATED INTERVALS AT 10.826' - 10.864' AND 10.872' - 10.903'. REMAINDER OF FLUID MOVES DOWN AND EXITS PERFORATED INTERVAL AT 10.956' - 11.100'.

FOUND NO INDICATION OF UPWARD MOVEMENT OF FLUID (CHANNELING) FROM PERFORATED INTERVAL AT 10.956' - 11.100'. R/A TRACER CHECKS PERFORATED INTERVAL AT 10.956' - 11.100' O.K.

10,956'

11000





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 8, 2003

Sharon Ward  
Citation Oil & Gas Corporation  
P. O. Box 690688  
Houston, Texas 77269-0688

Re: Pressure Testing Variance – UPRC #1, Section 17, Township 2 North, Range 7  
East, Summit County, Utah, API No. 43-043-30290

Dear Sharon:

In response to your request for a one year variance on pressure testing for the above referenced well, please be advised that the Division of Oil, Gas and Mining (the "Division") hereby grants Citation Oil & Gas Corporation ("Citation") approval. The UPRC #1 well is to remain shut-in during this one year variance, as stated in your letter dated November 6, 2002.

Division staff members witnessed the Radioactive Tracer ("RAT") Survey, conducted by Production Logging Services, on October 29, 2002. The survey indicated that fluid being pumped downhole exits the tubing and splits, part of the injected fluid leaks up past the packer and exits squeezed (Mara-Seal, April 1997) perforated intervals at 10826-10864' and 10872-10903', the remainder of the fluid moves downhole and exits the approved perforated interval at 10956-11100'. A copy of the RAT Survey, confirming the above, was received on December 16, 2002.

At present, the UPRC #1 well has failed to meet the mechanical integrity requirements of the Division due to packer leak and "squeezed" perforation leaks at 10826-10864' and 10872-10903'. However, the Divisions' records indicate that the well is not injecting and has been shut-in since November 2001, and poses no immediate or presumed threat to the environment, groundwater, subsurface formations, or surrounding wells. Therefore, a one year variance on pressure testing is granted at this time, allowing Citation time to complete its study of the waterflood potential in the Elkhorn field, as requested.

Page 2  
Citation Oil & Gas Corporation  
January 8, 2003

Should you have any questions regarding this matter please call Lisha Cordova,  
Dan Jarvis or myself at (801) 538-5340.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt", written in a cursive style.

Gil Hunt  
Technical Services Manager, Oil & Gas

lc  
cc: Citation O&G Corporation, Val Meadows  
Well File

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File Elkhorn Wagon Canyon  
Unit 20-1H  
 (Loc.) Sec 20 Twp 2N Rng 7E  
 (API No.) 43-043-30310  
X Conv w/w - Elkhorn Wagon Cyn. Unit

Suspense  
 (Return Date) \_\_\_\_\_  
 (To-Initials) \_\_\_\_\_

Other  
Elkhorn Wagon Canyon Unit  
17-1 SWD  
43-043-30290  
Sec. 17, T2N, R7E

1. Date of Phone Call: 9-15-2003 Time: 11:30

2. DOGM Employee (name) J. Cordove ( Initiated Call)  
 Talked to:  
 Name Steve Gurley ( Initiated Call) - Phone No. (281) 517-7800  
 of (Company/Organization) Citation P.E.G.

3. Topic of Conversation: Elkhorn Wagon Canyon Unit 17-1 SWD  
Intent to repair leaking casing?

4. Highlights of Conversation: \_\_\_\_\_  
msg - out of office.

\*Op. wants 17-1 well to remain SI, wants to begin EOR  
operation and will monitor 17-1 well for pressure increase/  
communication w/EOR operations. If problems begin to  
arise op will repair leaks, then proceed with EOR operations.  
They hope the project is successful, if so they will probably  
convert the 17-1 SWD to a producer. If unsuccessful, they  
will likely repair leaks & continue as a disp. well.  
MIT extension to Jan. 2004. (Letter being mailed by op. regarding  
the above.

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			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: NA
			7. UNIT or CA AGREEMENT NAME: Elkhorn Watton Canyon
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD</u>			8. WELL NAME and NUMBER: Elkhorn Watton Canyon Unit 17-1SWD
2. NAME OF OPERATOR: Citation Oil and Gas Corp.			9. API NUMBER: 43-043-30290
3. ADDRESS OF OPERATOR: P.O. Box 690688 CITY Houston STATE TX ZIP 77269		PHONE NUMBER: (281) 517-7800	10. FIELD AND POOL, OR WILDCAT: Twin Creek Watton Canyon Field
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2335' FNL & 2052' FWL			COUNTY: SUMMIT
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 2N 7E			STATE: UTAH

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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"/> 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.

Per Docket No. 2003-007, Cause #252-01, Citation Oil and Gas Corp. has recieved approval to establish the Elkhorn Watton Canyon Unit. All wells covered under this agreement will now be called the Elkhorn Watton Canyon Unit.

UPRC #1 will now be known as Elkhorn Watton Canyon Unit 17-1 SWD

NAME (PLEASE PRINT) <u>Christi Rapsilver</u>	TITLE <u>Production File Clerk</u>
SIGNATURE <u><i>Christi Rapsilver</i></u>	DATE <u>8/27/2003</u>

(This space for State use only)

RECEIVED  
**AUG 29 2003**  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>Fee</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: <b>Elkhorn Watton Canyon Unit</b>
		8. WELL NAME and NUMBER: <b>Elkhorn Watton Canyon Unit 17</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD</u>	2. NAME OF OPERATOR: <b>Citation Oil &amp; Gas Corp.</b>	9. API NUMBER: <b>43-043-30290</b>
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77269</b>	PHONE NUMBER: <b>(281) 517-7800</b>	10. FIELD AND POOL, OR WILDCAT: <b>Twin Creek Watton Canyon Fld</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2335' FNL &amp; 2052' FWL</b>		COUNTY: <b>Summit</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 17 2N 7E</b>		STATE: <b>UTAH</b>

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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 checked="" type="checkbox"/> OTHER: <u>Monitor well</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.

Citation Oil & Gas Corp. requests permission to hold the Elkhorn Watton Canyon Unit #17-1 (formerly known as the UPRC 17-1) well as an observation well. We will monitor the fluid level and pressure on the back side. Upon changes will take appropriate action.

COPY SENT TO OPERATOR  
Date: 3-18-04  
Initials: CHD

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Regulatory Administrator</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>9/15/2003</u>

(This space for State use only)

**APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**

DATE: 3/17/04

BY: [Signature]

\* with conditions of Approval (Attached)

SEP 24 2003

(5/2000)



January 9, 2004

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

Attn: Mr. Dan Jarvis

Re: Variance from MIT Testing Per Utah Rule R649-9-8  
UPRC #1 API # 43-043-30290  
Elkhorn Field  
Summit County, Utah

Dear Commission:

Citation Oil and Gas Corp. respectfully requests an additional years variance on pressure testing the UPRC #1 well. The waterflood has been fully running for one month. Citation's reservoir department needs additional time to complete a comprehensive study of the Elkhorn field.

The results of the ongoing study could conclude that the UPRC #1 SWD well is needed for this project. Until this study is completed or the well passes an MIT test, the fluid level and pressure on the backside will be monitored and the well will remain shut-in during this evaluation period.

If you have any questions, or require additional information, please contact the undersigned at 281-517-7309. Thank you.

Respectfully Requested,

A handwritten signature in black ink that reads "Sharon Ward".

Sharon Ward  
Regulatory Administrator

RECEIVED

JAN 12 2004

DIV. OF OIL, GAS & MINING





State of Utah

Department of  
Natural Resources

Division of  
Oil, Gas & Mining

ROBERT L. MORGAN  
*Executive Director*

LOWELL P. BRAXTON  
*Division Director*

MICHAEL O. LEAVITT  
*Governor*

OLENE S. WALKER  
*Lieutenant Governor*

January 15, 2004

Sharon Ward  
Citation Oil & Gas Corporation  
P. O. Box 690688  
Houston, Texas 77269-0688

Re: Pressure Testing Variance – Elkhorn (Watton Canyon) Unit 17-1  
SWD (formerly UPRC #1), Section 17, Township 2 North, Range  
7 East, Summit County, Utah, API No. 43-043-30290

Dear Sharon:

In response to your request for a one year variance on pressure testing for the above referenced well, please be advised that the Division of Oil, Gas and Mining (the "Division") hereby grants Citation Oil & Gas Corporation ("Citation") approval. The Elkhorn (Watton Canyon) Unit 17-1 SWD well is to remain shut-in during this one year variance and the fluid level and pressure on the backside should be monitored, as stated in your letter dated January 9, 2004.

Division staff members witnessed the Radioactive Tracer ("RAT") Survey, conducted by Production Logging Services, on October 29, 2002. The survey indicated that fluid being pumped downhole exits the tubing and splits, part of the injected fluid leaks up past the packer and exits squeezed (Mara-Seal, April 1997) perforated intervals at 10826-10864' and 10872-10903', the remainder of the fluid moves downhole and exits the approved perforated interval at 10956-11100'. A copy of the RAT Survey, confirming the above, was received on December 16, 2002.

At present, the Elkhorn (Watton Canyon) Unit 17-1 SWD well has failed to meet the mechanical integrity requirements of the Division due to packer leak and "squeezed" perforation leaks at 10826-10864' and 10872-10903'. However, the Divisions' records indicate that the well is not injecting and has been shut-in since November 2001, and poses no immediate or presumed threat to the environment, groundwater, subsurface formations, or surrounding wells.

Page 2  
Citation Oil & Gas Corporation  
January 15, 2004

Therefore, a one year variance on pressure testing is granted at this time, allowing Citation time to complete a comprehensive study of the waterflood potential in the Elkhorn field now that enhanced recovery operations have commenced in the Elkhorn (Watton Canyon) Unit.

Should you have any questions regarding this matter please call me at (801) 538-5296 or Dan Jarvis at (801) 538-5338.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Cordova".

Lisha Cordova  
Petroleum Specialist

lc  
enclosure  
cc: Citation O&G Corporation, Val Meadows  
Well File



State of Utah

Department of  
Natural Resources

Division of  
Oil, Gas & Mining

ROBERT L. MORGAN  
*Executive Director*

LOWELL P. BRAXTON  
*Division Director*

MICHAEL O. LEAVITT  
*Governor*

OLENE S. WALKER  
*Lieutenant Governor*

## ***CONDITIONS OF APPROVAL TO RETAIN SWD AS A SHUT-IN MONITOR WELL***

Well Name and Number: Elkhorn Watton Canyon Unit 17  
API Number: 43-043-30290  
Operator: Citation Oil & Gas Corporation  
Reference Document: Original Sundry Notice dated  
September 15, 2003, received by DOGM on September 24, 2003

Approval is valid until January 1, 2005 with the following conditions. Approval for extension of shut-in may be applied for at that time.

### Approval Conditions:

1. RAT test in October of 2002 showed leaks in packer and in previously squeezed leaks in the Twin Creek. Fluid/pressure from waterflood in Twin Creek may be seen through leaking perms. Waste could occur once this breakthrough is encountered. Pressure from waterflood should inhibit any contamination from disposal zone into Twin Creek. Pressures (Tubing, Casing and Casing/Casing) and Fluid Levels shall be monitored and reported to the Division on a Monthly basis as a minimum.
2. Notify the Division immediately if there are changes in pressures or fluid levels. Please notify Dustin Doucet at 801-538-5281. Remedial action will be necessary at this time and could include setting of a bridge plug or cement plug to isolate the Nugget formation.
3. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet  
Petroleum Engineer

March 17, 2004

Date



July 20, 2005

RECEIVED  
JUL 22 2005  
DIV. OF OIL, GAS & MINING

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

ATTN: Mr. Dan Jarvis

Re: Variance from Mechanical Integrity Testing  
per Utah Rule R649-9-8  
Elkhorn (Watton Canyon) Unit 17-1 SWD  
(formerly UPRC #1) API 43-043-30290  
SE NW Sec. 17, T2NS, R7E  
Summit County, Utah

Dear Mr. Jarvis:

Citation Oil & Gas Corp. respectively requests a variance on pressure testing for the above referenced well, pursuant to Utah Rule R649-9-8.

Per requirements stipulated in your Variance approval letter dated January 15, 2004, the well continues to be shut in with no volumes or pressures and monitored monthly with UIC Form 3 being submitted as required.

To date, we have realized no significant, positive response to the waterflood; however, we will continue to monitor and reevaluate the performance during the coming budget year.

Sincerely,

Debra Harris  
Regulatory/Production Coordinator

xc: Steve Gurley  
Val Meadows

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File Elkhorn WCU 17-15

Suspense

Other

(Loc.) Sec 17 Twp 2N Rng. 7E  
(API No.) 43-043-30290

(Return Date) \_\_\_\_\_

(To-Initials) \_\_\_\_\_

1. Date of Phone Call: 6/27/05 Time: 4:01

2. DOGM Employee (name) J. Cordova ( Initiated Call)

Talked to:

Name Val Meadows ( Initiated Call) - Phone No. (435) 336-5631

of (Company/Organization) Citation O.E.G. Corp.

3. Topic of Conversation: MIT follow-up.

4. Highlights of Conversation: \_\_\_\_\_

msg. left on ans. machine.

6/28/05 Val referred me to Rick McLaughlin (307) 689-3406 msg ans. machine.

6/29/05 Rick will submit a study requesting a 1 yr. MIT ext

with detailed info. of what their future plans are for the well

& monitoring activities of the well @ Elkhorn WCU waterflood

Project.



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 28, 2005

Ms. Debra Harris  
Citation Oil & Gas Corporation  
P. O. Box 690688  
Houston, Texas 77269-0688

Re: Pressure Testing Variance #3 - Elkhorn (Watton Canyon) Unit 17-1 SWD (formerly UPRC #1), Section 17, Township 2 North, Range 7 East, Summit County, Utah, API No. 43-043-30290

Dear Ms. Harris:

In response to your letter dated July 20, 2005, whereby it is requested that a pressure testing variance for the above referenced well be granted, please be advised that the Division of Oil, Gas and Mining (the "Division") does hereby grant Citation Oil & Gas Corporation ("Citation") a 3<sup>rd</sup> one-year mechanical integrity test ("MIT") variance. The Elkhorn (Watton Canyon) Unit 17-1 SWD well ("the well") is to remain shut-in during this one year variance and the fluid level and pressure on the backside should continue to be monitored.

The Division previously granted one-year MIT variances on January 8, 2003, and January 15, 2004, to allow Citation time to complete a comprehensive study of the waterflood potential in the Elkhorn field/Watton Canyon Unit ("the field/unit"). Enhanced recovery operations commenced in the field/unit in November 2003.

Division staff members witnessed the Radioactive Tracer ("RAT") Survey, conducted by Production Logging Services, on October 29, 2002. The survey indicated that fluid being pumped down hole exits the tubing and splits, part of the injected fluid leaks up past the packer and exits squeezed (Mara-Seal, April 1997) perforated intervals at 10826-10864' and 10872-10903', the remainder of the fluid moves down hole and exits the approved perforated interval at 10956-11100'. A copy of the RAT Survey, confirming the above, was received on December 16, 2002.

At present, the well has failed to meet the mechanical integrity requirements of the Division due to packer leak and "squeezed" perforation leaks at 10826-10864' and 10872-10903'. However, the Division's records indicate that the well is not

Page 2  
Ms. Debra Harris  
July 28, 2005

injecting and has been shut-in since November 2001, and poses no immediate or presumed threat to the environment, groundwater, subsurface formations, or surrounding wells.

Should you have any questions regarding this matter please call me at (801) 538-5296 or Dan Jarvis at (801) 538-5338.

Sincerely,



Lisha Cordova  
Petroleum Specialist

LC:jc

cc: Dan Jarvis, Acting Technical Services Manager  
Citation O&G Corporation, Val Meadows  
Well File

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: Elkhorn Watton Canyon Unit
		8. WELL NAME and NUMBER: <u>U17-1 SWD</u> Elkhorn Watton Canyon <u>17-1</u>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	2. NAME OF OPERATOR: Citation Oil & Gas Corp.	9. API NUMBER: 4304330290
3. ADDRESS OF OPERATOR: P O Box 6906888 CITY Houston STATE TX ZIP 77269	PHONE NUMBER: (281) 517-7800	10. FIELD AND POOL, OR WLDGAT: Elkhorn Field
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2335' FNL & 2052' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 2N 7E		COUNTY: Summit STATE: UTAH

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"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<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/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____	

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

Citation requests permission to temporarily abandon the Elkhorn Watton Canyon 17-1 with the attached procedure. Chad Stallard with Citation received verbal approval for this procedure prior to this sundry being submitted.

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DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>8/10/2006</u>

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE 8/10/06  
BY: [Signature]

(5/2000)

(See Instructions on Reverse Side)

Well History Summary

Well: Elkhorn Field, Watton Canyon 17-1 SWD

Surface Location: 2335' FNL & 2052' FWL, SE NW, Section 17, T-2-N, R-7-E  
Summit County, Utah

API#: 43-043-30290

Elevations: 6756' GL  
6776' KB

TD: 11,134'  
PBTD: 11,127'

Casing: 16" @ 120' (22" Hole) cmt'd W/? sx  
9 5/8", 40#, N-80 LTC @ 1545' (12 1/4" Hole) cmt'd W/835 sx  
5 1/2" 17, 20, & 23# csg to 9936' & 5 1/2" 20# csg F/9936 to TD @ 11,112' (6 1/2" Hole) cmt'd  
W/2900 sx Class H

Tubing: 347 jts, 2 7/8", 6.5#, N-80, EUE, 8rd DUOLINE-2 tbg

Initial Completion: 6-10/88 CO well to PBTD @ 11,077'. Perf Nugget F/10,956 - 77 & 78 - 11,000' (4 JSPF). Run temp log F/10,832 - 11,056' (wtr flow noted F/Nugget). Set CIBP @ 10,944 W/1 sk cmt on top of it. Perf Twin Creek F/10,826 - 64 & 72 - 903' (2 JSPF). Tag PBTD @ 10,919'. Acidize perms W/7500 gals 28% HCl W/NE & FE adds using 150 BS to divert @ 5 BPM & 3400 psi max. Set CIBP @ 10,800' W/1 sk cmt on top of it. Perf Twin Creek F/10,574 - 602 & 692 - 720' (2 JSPF). Acidize perms W/6048 gals 28% HCl using 120 BS to divert. Set CIBP @ 10,686' W/1 sk cmt on top of it. Re-acidize perms 10,574 - 602 W/2500 gals 28% HCl. Run temp log & discover fluid movement F/below perms. Set CIBP @ 10,675 & test to 3000 psi - OK. Set CICR @ 10,490'. SQZ perms 10,574 - 602 in 3 attempts W/a total of 600 sx cmt. CO well to 10,658 & test SQZ - OK. Perf Twin Creek F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (2 JSPF). Acid frac W/10000 gals 28% using 80 BS to divert. Set CIBP @ 10,565' & test to 3000 psi - OK. Reperf Twin Creek F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (2 JSPF). Acidize all perms W/9500 gals 28% HCl using 225 BS to divert. Set CIBP @ 10,300' W/3 sx cmt on top of it & test to 2000 psi - OK. TA well.

Initial Potential: Unsuccessful completion

Logs Available: None

History Updated: 12/5/02

Well Status: SI Nugget SWD well

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**DIV. OF OIL, GAS & MINING**

**Perforations:** Twin Creek: 10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (4 JSPF) (Shot - 9 & 10/88) (SQZ'd - 12/93)  
10,574 - 602' (2 JSPF) (Shot - 8/88) (SQZ'd - 9/88)  
10,692 - 720' (2 JSPF) (Shot - 8/88) (SQZ'd - 12/93)  
10,826 - 64 & 72 - 903' (2 JSPF) (Shot - 7/88) (SQZ'd - 12/93)

Nugget: 10,950 - 11,100' (4 JSPF) (12/93)  
OH from 11,112 - 11,134' (7' of sd left in OH section to 11,127') (1/94)

**Workovers & Other History:**

- 12/93 CO well to 10,563'. SQZ all open Twin Creek Perfs F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41'. CO well to 10,561' & test SQZ - OK. CO well to 10,740'. Re-SQZ perfs - no other data available. CO well to 10,732' & test SQZ to 1340 psi. Lost 50 psi in 30 min. CO well to 10,932'. Spot cmt F/10650 - 920' & pressure test - OK. CO well to 11,108'. Perf Nugget F/10950 - 11,100'. Acidize W/5000 gals 15% HCl. Deepen well to 11,134'. Spot 27 sx sd. Set CICR @ 10,553' & SQZ W/150 sx cmt. CO well to 11,127'. Set PKR @ 10,921'. Test backside to 1000 psi - OK. Establish pump-in rate of .3 BPM @ 1000 psi, .75 BPM @ 1500 psi, & 2.25 BPM @ 2000 psi. Convert to wtr disposal well.
- 9/95 Pump 14,100 gals of 3 - 8% HCl down well in an attempt to increase injectivity. Establish final injectivity @ 3.5 BPM @ 1700 psi.
- 4/97 Test injectivity @ .6 BPM @ 3000 psi. Pump 145 BBLs of Mara-seal followed by 45 BBLs treated wtr to a max pressure of 4,240 psi dn csg-tbg annulus. Pressure test annulus to 1000 psi for 15 min - OK. SI well. (\$17,116)
- 10/02 Attempt to establish csg integrity - would not hold. Run RA tracer survey & found PKR @ 10,921' to be leaking. Apply to the State of Utah Oil & Gas Commission for a 1 year variance from having to fix or P&A the well until further Elkhorn field waterflood studies can be completed.

Work Over Procedure:

Comments: 1. Suspected packer leak.

Objective: TA well

1. MIRUSU.
2. ND Tree. NU 5M BOP's.
3. Release packer at 10,919' and TOO H w/ 2-7/8" tubing, standing back. Perform visual inspection of tubing.
4. RIH w/5 1/2" CIBP and set at 10,900. Dump 100' cement on top of CIBP.
5. WOC. Pressure test annulus to 1000 psi. Contact Chad Stallard (713-249-4671) with the results. If well will MIT test then proceed to step 8. If not continue to step 6.
6. POOH and PU 5 1/2" CIBP. RIH and set at 10,350'. Set CIBP and dump 100' cement on top.
7. WOC and test. Contact Chad Stallard with results.
8. POOH leaving 2 jts tubing in the hole.
9. ND BOP's. NU tree.
10. RDMOSU.

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**AUG 09 2006**

**DIV. OF OIL, GAS & MINING**

List of Citation Contacts

Foreman

Val Meadows

Cell: 435.640.0559 Office: 435.336.5631

Engineer

Chad Stallard

Office: 281-517-7527 Cell: 713.249.4671

Date: 12-5-02

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

Ground Elevation = 6756'

RKB = 6776'

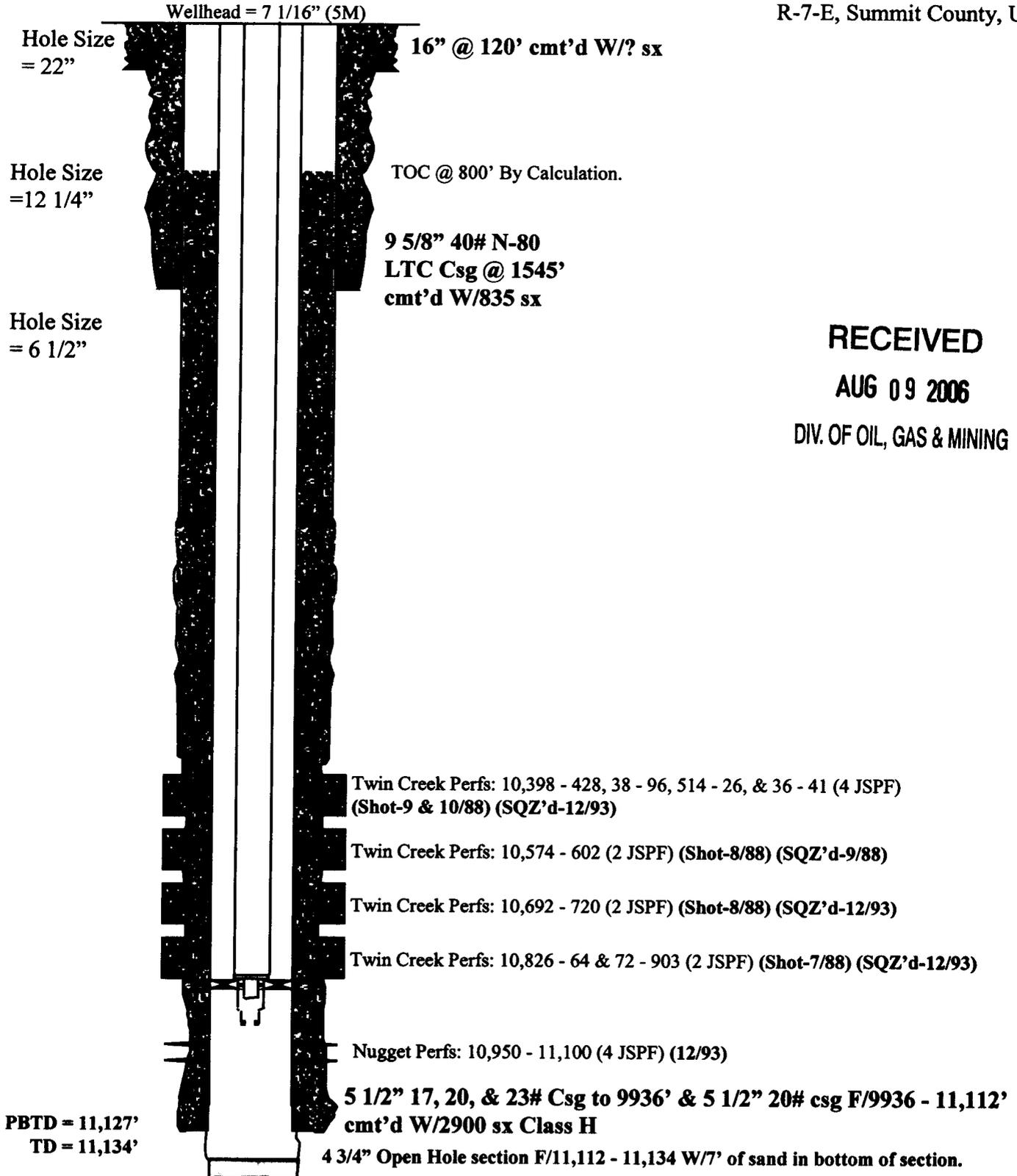
KB = 20'

## Wellbore Diagram

### Present Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



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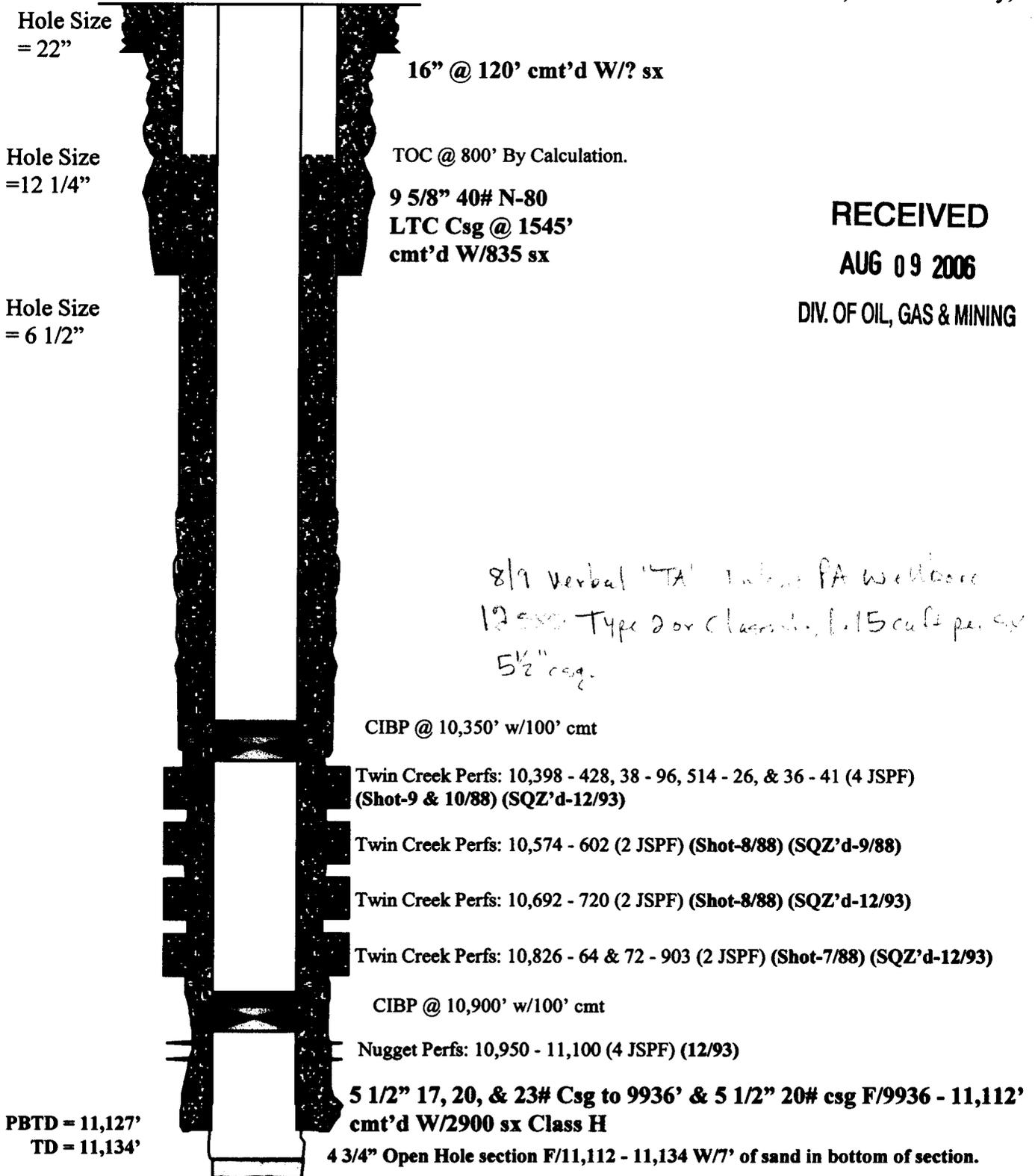
Date: 8-8-06

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram Proposed

Surface Location  
2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



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DIV. OF OIL, GAS & MINING

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

FORM 9

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1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Elkhorn Watton Canyon Unit</b>
2. NAME OF OPERATOR: <b>Citation Oil &amp; Gas Corp.</b>		8. WELL NAME and NUMBER: <b>Elkhorn Watton Canyon <sup>017-1 SWD</sup> <del>17-1</del></b>
3. ADDRESS OF OPERATOR: P O Box 6906888 CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77269</b>		9. API NUMBER: <b>4304330290</b>
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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 17 2N 7E</b>		COUNTY: <b>Summit</b>
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	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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Citation requests permission to temporarily abandon the Elkhorn Watton Canyon 17-1 with the attached procedure. Chad Stallard with Citation received verbal approval for this procedure prior to this sundry being submitted.

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>8/10/2006</u>

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**AUG 11 2006**

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Logs Available: None

History Updated: 12/5/02

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List of Citation Contacts

Foreman	Val Meadows	Cell: 435.640.0559	Office: 435.336.5631
Engineer	Chad Stallard	Office: 281-517-7527	Cell: 713.249.4671

Date: 12-5-02

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

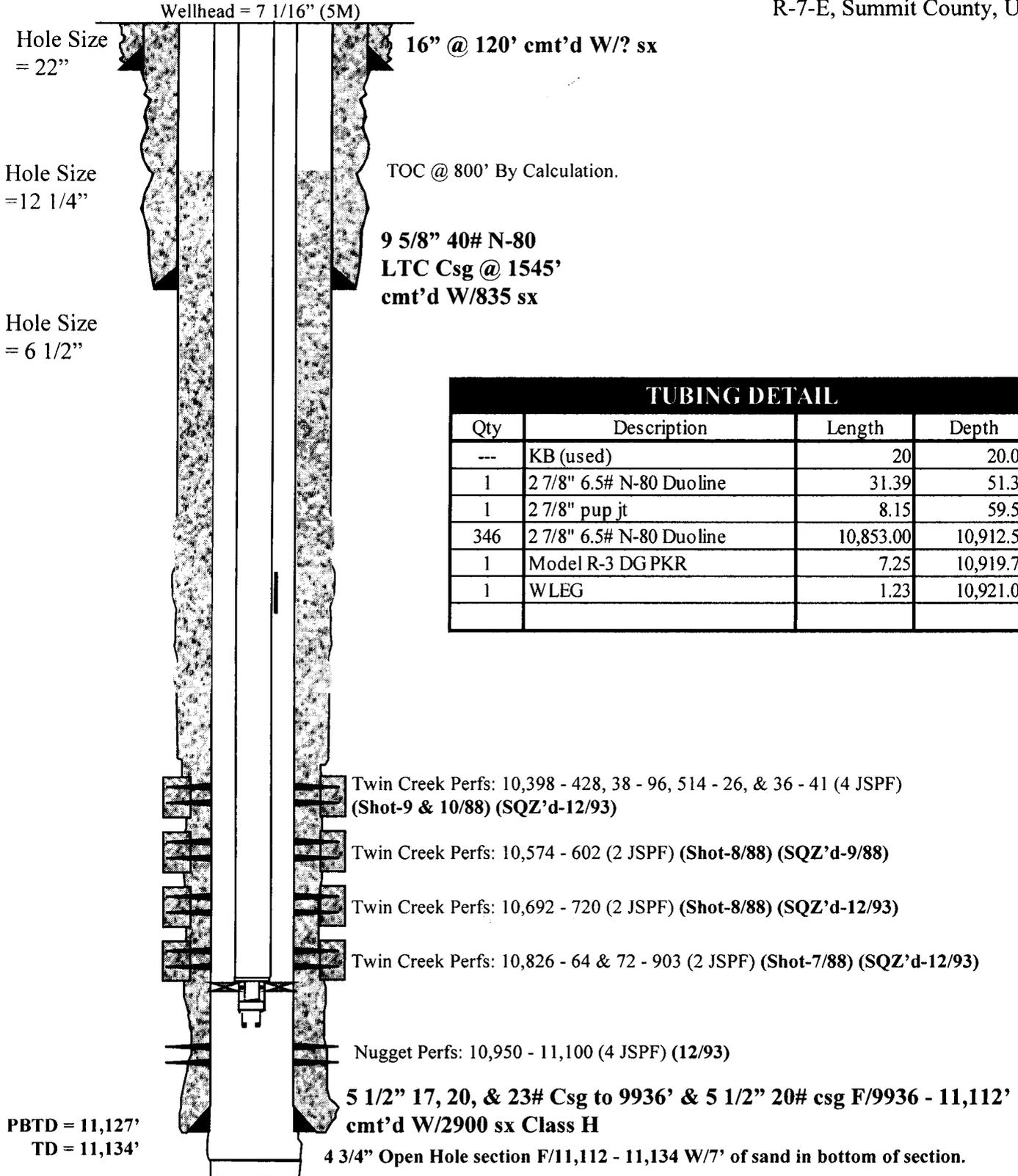
Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram

Present Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



Date: 8-8-06

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

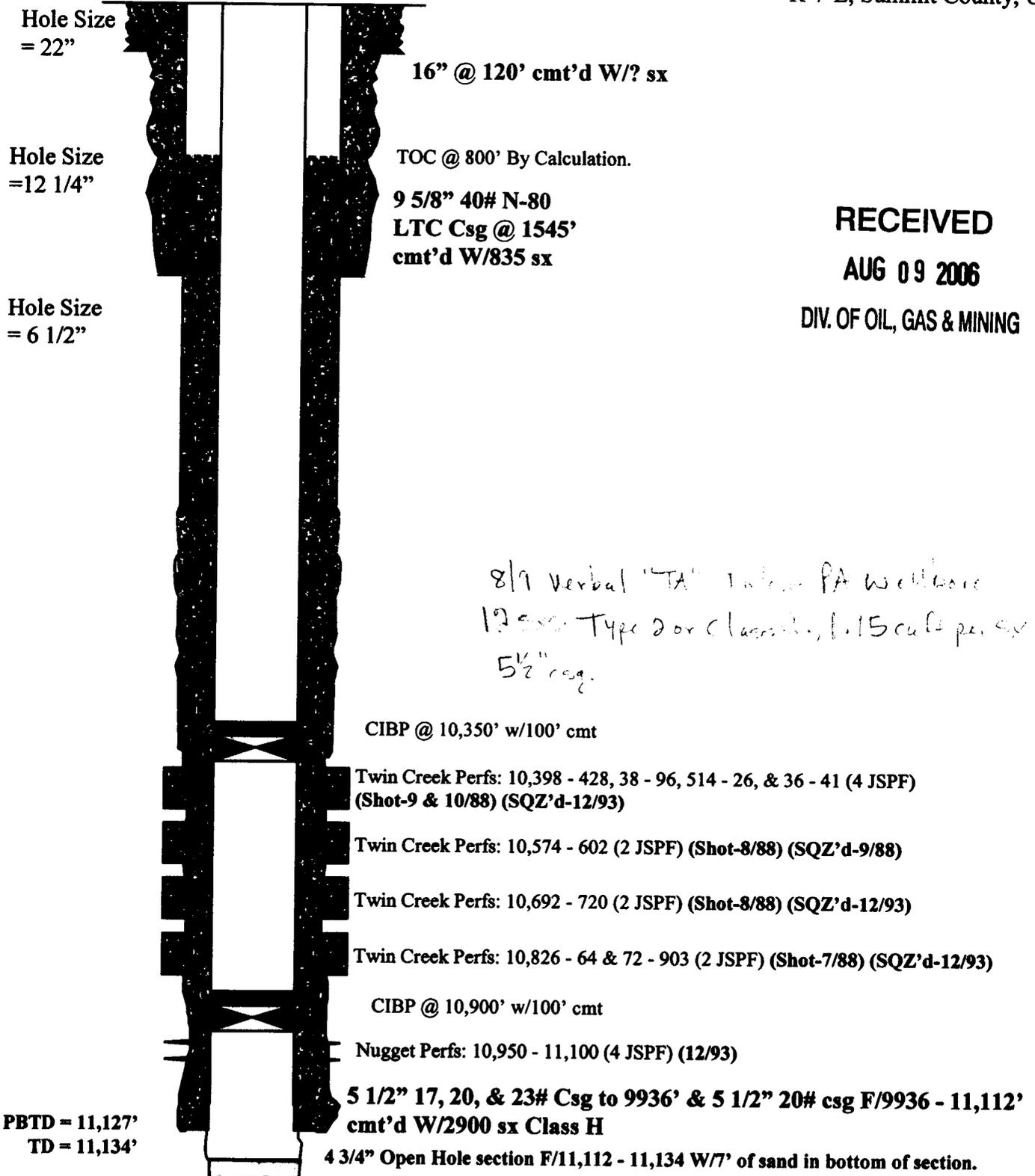
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## Wellbore Diagram

Proposed

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



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PBTD = 11,127'  
TD = 11,134'

4 3/4" Open Hole section F/11,112 - 11,134 W/7' of sand in bottom of section.

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P O Box 6906888 CITY Houston STATE TX ZIP 77269		7. UNIT OR CA AGREEMENT NAME: Elkhorn Watton Canyon Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2335' FNL & 2052' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 2N 7E		8. WELL NAME and NUMBER: Elkhorn Watton Canyon <del>17-1</del> 17-1 SWD
PHONE NUMBER: (281) 517-7800		9. API NUMBER: 4304330290
		10. FIELD AND POOL, OR WLOCAT: Elkhorn Field

COUNTY: Summit

STATE:

UTAH

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
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	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE 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.

Citation submits the attached modified procedure and proposed wellbore schematic to plug back and bring the Elkhorn Watton Canyon Unit 17-1 SWD well back into regulatory compliance.

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>8/24/2006</u>

(This space for State use only)

(5/2000)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS AND MINING (See Instructions on Reverse Side)  
DATE: 8/24/06  
BY: D. S. [Signature]

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DIV. OF OIL, GAS & MINING

Elkhorn Field, Exxon UPRC #1 SWD

Page 3 of 3

Work Over Procedure:

Objective: TA well to obtain MIT

Steps 1 through 4 have been completed.

1. MIRUSU. ND Tree. NU 5M BOP's.
2. Work pipe to 110K (~40K OSW) to release PKR. Failed attempt to Release PKR at 10,919'.
3. Loaded tubing with 5 BW and pressured to 1000# and noted no communication with tubing-casing annulus.
4. MI RU WL. Ran freepoint w/ following results.
  - > 100% free pipe @ 10,000'
  - > 50% free pipe @ 10,680'
  - > 40% free pipe @ 10,750'
  - > 20% free pipe @ 10,837'

**NOTE: The following is the desired "alternate" TA procedure requiring approval from State and UIC.**

5. MI RU Halliburton. Establish injection via Duoline tubing into Nugget perms (10,950' - 11,100') @ 2000 psi (~2 BPM). Monitor annulus for communication. If tubing-casing annulus starts to circulate notify CTR office immediately.
6. Mix and pump 20 sx cement and displace to 10,720' (200' above PKR) w/ 53 BW. Note: Cement volume calculated to fill casing from PKR to top Nugget perf and 200' of 2 7/8" Duoline tbg.
7. RD pump truck. RU WL. RIH and jet-cut tubing @ 10,500' (Pull tension into tubing prior to cut). RD WL if 1<sup>st</sup> cut is successful.
8. PUH & LD tubing to 10,350'. RU Halliburton. Establish circulation via tubing up tubing-casing annulus.
9. Mix and spot a 100' (15 sack) balanced cement plug.
10. PUH to 10,000' and WOC.
11. Attempt MIT to 1000 psi to establish casing integrity. RD Halliburton.
12. Contact Ted Smith (801-538-5303) DOGM to arrange their visit to witness the cement tag and pressure test.
13. RIH and tag cement. Pressure test annulus to 1000 psi. Contact Chad Stallard (713-249-4671) with the results.
14. POOH leaving 2 jts tubing in the hole with collar on bottom.
15. ND BOP's. NU tree.
16. RDMOSU.

List of Citation Contacts

Foreman	Val Meadows	Cell: 435.640.0559	Office: 435.336.5631
Engineer	Chad Stallard	Office: 281-517-7527	Cell: 713.249.4671
	Jeff Teare	281.517.7199	
	Mark Bing	281.517.7197	

Date: 12-5-02

# Citation Oil & Gas Corporation Elkhorn Field, Exxon UPRC #1 SWD

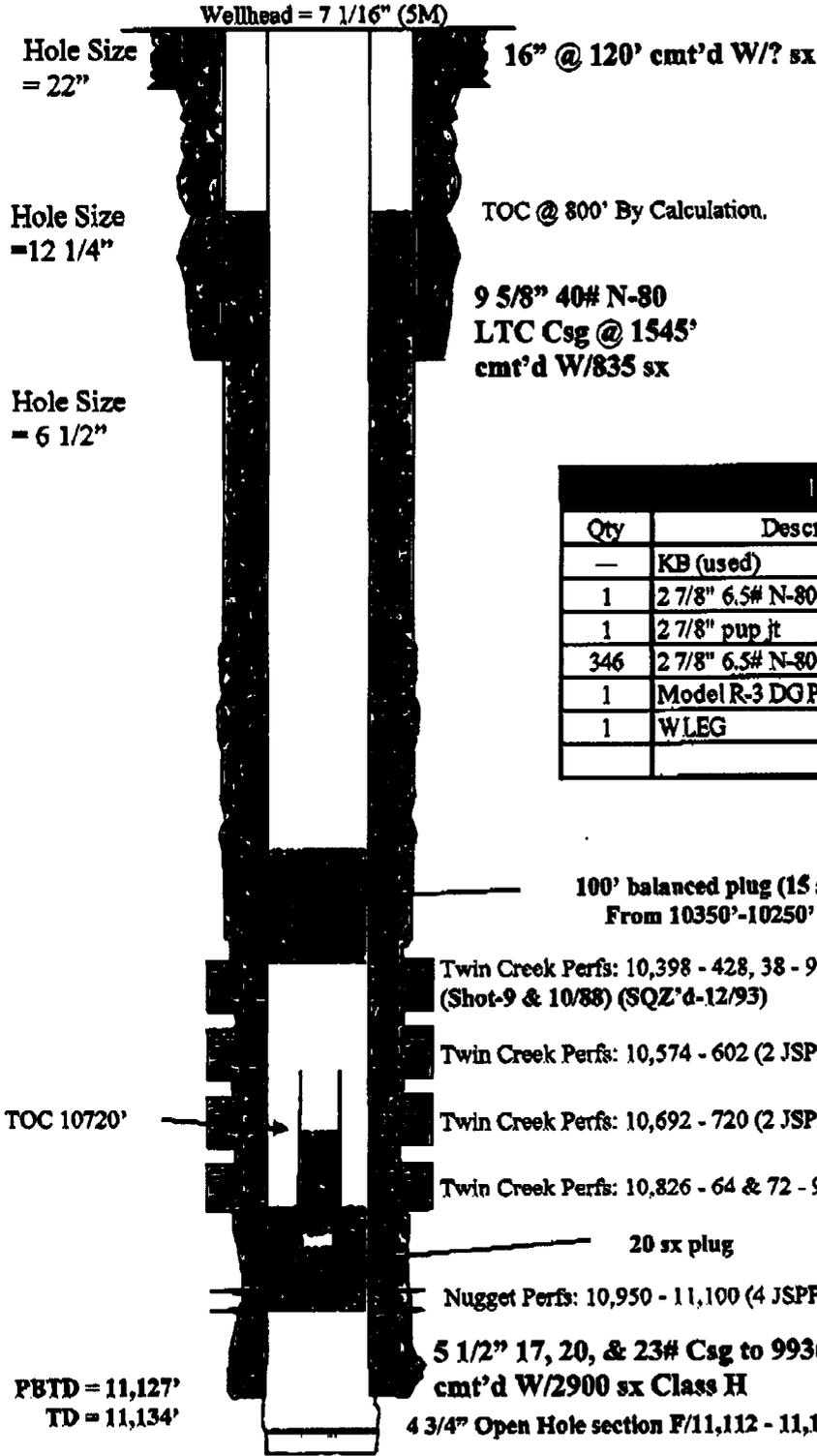
Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram

### Present Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



TUBING DETAIL			
Qty	Description	Length	Depth
—	KB (used)	20	20.00
1	2 7/8" 6.5# N-80 Duoline	31.39	51.39
1	2 7/8" pup jt	8.15	59.54
346	2 7/8" 6.5# N-80 Duoline	10,853.00	10,912.54
1	Model R-3 DGP KR	7.25	10,919.79
1	WLEG	1.23	10,921.02

# Wellbore Diagram

API Well No: 43-043-30290-00-00 Permit No: UIC-143.1 Well Name/No: ELKHORN WATTON CYN U 17-1  
 Company Name: CITATION OIL & GAS CORP  
 Location: Sec: 17 T: 2N R: 7E Spot: SENW  
 Coordinates: X: 484673 Y: 4528477  
 Field Name: ELKHORN  
 County Name: SUMMIT

### String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
SURF	1545	9.625		
PROD	11114	5.5	17#	
T1	10810	2.875	6.5#	
PKR	10810 10919		<del>6.5#</del>	

Capacity  
(f/cf)

7.661  
30.771  
-0.00579 bbls/ft  
-0.0049 bbls/ft

ID 2.251 →

36,1851 f/cf

Cement from 1545 ft. to surface  
 Surface: 9.625 in. @ 1545 ft.  
 Hole: Unknown

### Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
SURF	1545	0		

### Perforation Information

✓ Proposed Plug 2

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
10956	11100			

(10350' to 10250')

~~10350'~~ (152x)(1.15)(7.661) = 132'

available to squeeze plug from 10,350' to 10,250'  
 tag - pressure test

### Formation Information

Formation	Depth
BRRVR	3726
KELVN	4230
STUMP	6367
PREU	6910
WNCR	9446
WTCYN	10295
BOURIDG	10511
SLIDE RK	10826
GYP SPR	10917

✓ Proposed Plug 1

Tubing 6.1 (10720' to 10919')

200' / (1.15)(30.771) = 5.75

Below packer to top of perf.

10250  
10300'  
cut tubing @ 10,500'

Packer: @ 10810 ft.  
 Tubing: 2.875 in. @ 10810 ft.  
 Production: 5.5 in. @ 11114 ft.  
 Hole: Unknown  
 10,950  
 11,100

3922, leaking 30' / (1.15)(7.661) = 3.45

Displacement = (10,720')(0.0049) = 62 bbls  
 From permits → (1052')(1.15)(7.661) = 88'  
 BOC<sub>max</sub> = 11,038'

TD: 11114 TVD:

~~10350' (1.15)(7.661) = 132'~~

~~200' (1.15)(30.771) = 5.75~~



DATE: 8-24-06

COMPANY: \_\_\_\_\_

CONTACT: Dustin Doucet

FAX NO: 801-359-3940

FROM: Sharon Ward/Mark Bug

The following document (s) consist of 4 pages, including this cover page. Please contact the above at (281) 517-7800 if a problem arises in the transmission of a document.

Thank You.

Message: Please contact Mark Bug @  
281-517-7197 with any questions

\_\_\_\_\_  
 \_\_\_\_\_  
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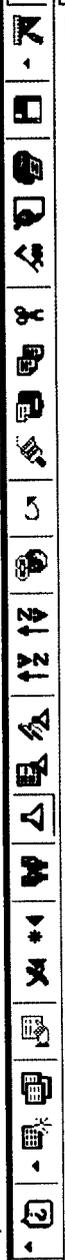
Teletypewriter Number Transmitting From (281) 469-9667

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 AUG 24 2006

DIV. OF OIL, GAS & MINING

8223 Willow Place South • Houston, Texas 77070-5623 • 281/517-7800 • Fax 281/469-9667



MITT ZMITT

### MIT Tests

API Well No: **10950-11100**

Multiple Tests for This Well >>>

09/09/2006 00:00
10/29/2002 00:00
04/23/1997 00:00
08/08/1996 00:00
01/31/1994 00:00

MITT Test Date/Time: **09/09/2006 0:00** Reason For Tests: **5-year Test**

Data for Wells Using APIM Type of MITT: **5-year Test**

Ann. Mon. Result: **---** Std. Annulus Pres. Test: **---** Date to edit/view data for this well:

Initial Test Pressure:	1000 psig	Test Result:	Acceptable	Well Status:	Static
Final Test Pressure:	1000 psig	Witnessed?	Yes	Inj. Pressure:	psig
Duration of Test:	15 min.	Inj. Name:	Lisha Cordova	Inj. Rate:	BPD

Data Mod: **---**

**Notes:** Well plugged back temporarily abandoned. Cant sqz frugget injection perfis @10950-11100' (8/25/06), cut off the w/hdr @10500' (8/25 & 8/26/06), set balanced plug @10350-10200' above Twin Creek sqz perfis @10903-10398 (9/8/06), tested casing (9/9/06) see above.

NEXT MIT: **9/9/2011**

Record: **14** of **5**

API Well Number



Novel-delivered Applc:di...

Well Selection Criteria

MIT Information

OIL & GAS INFORMATIO...

FLTR

NUM

# **CITATION OIL & GAS**

**WATTON CANYON**

**17-1**

**API Well No.:**

**9/8/2006  
SUMMIT**

**RECEIVED**

**SEP 09 2006**

**DIV. OF OIL, GAS & MINING**

**PLUG**

**Customer Representative:**

**VAL MEADOWS**

**Halliburton Operator:**

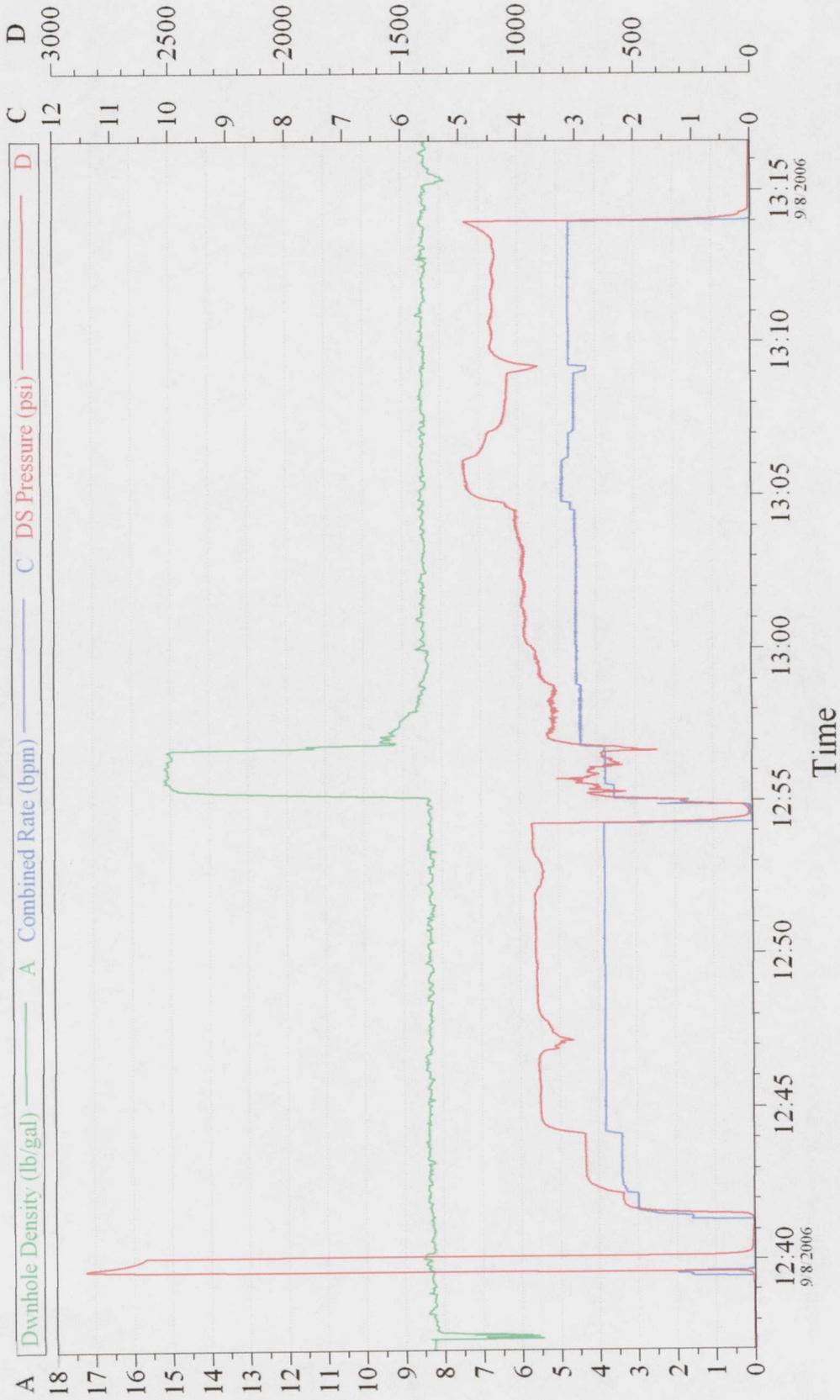
**CLAY SHEFFER**

**Ticket No.:**

**4610407**

# **HALLIBURTON**

# CITATION OIL & GAS PLUG



**HALLIBURTON**  
CemWin v1.7.0  
08-Sep-06 13:28

Customer: CITATION Well Desc: VAL MEADOWS	Job Date: 9-8-06 Job Type: PLUG	Ticket #: 4610407
--	------------------------------------	-------------------

# HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER: **4610407**      TICKET DATE: **Friday, September 08, 2006**

REGION <b>North America</b>	NWA / COUNTRY <b>Rocky Mountains</b>	BDA / STATE <b>Utah</b>	COUNTY <b>SUMMIT</b>
MBU ID / EMPL # <b>364677</b>	H.E.S. EMPLOYEE NAME <b>CLAY SHEFFER</b>	PSL DEPARTMENT <b>Cementing</b>	CUSTOMER REP / PHONE <b>VAL MEADOWS</b>
LOCATION <b>Vernal, Utah</b>	COMPANY: <b>CITATION OIL &amp; GAS</b>	WELL TYPE <b>OIL</b>	APIUM #
WELL LOCATION <b>COALVILLE</b>	DEPARTMENT <b>Cementing</b>	SAP BOMB NUMBER	JOB TYPE <b>PLUG</b>
LEASE NAME <b>WATTON CANYON</b>	Well No. <b>17-1</b>	SEC/TWP/RNG	

H.E.S. EMP NAME / EMP # / (EXPOSURE HOURS)	HRG	HRG	HRG	HRG
<b>CLAY SHEFFER364677</b>	0.5	<b>REYNOLDS, DON 121480</b>	0.5	
<b>TRIPP, KENNETH JR. 189604</b>	0.5	<b>GREG GARCIA TWS</b>	0.5	
<b>KARL LEMKE389842</b>	0.5			
<b>LOPEZ, RYAN 347583</b>	0.5			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES			
<b>10719779</b>	<b>360</b>			
<b>10638382</b>	<b>360</b>			
<b>10264848-10574660</b>	<b>360</b>			
<b>10026536-10025021</b>	<b>360</b>			

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form. Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
	<b>8-Sep-06</b>	<b>8-Sep-06</b>	<b>8-Sep-06</b>	<b>8-Sep-06</b>
Time	<b>0500</b>	<b>1200</b>	<b>1240</b>	<b>1313</b>

**Tools and Accessories**

Type and Size	Qty	Make
Float Collar		HES
Float Shoe		HES
Centralizers		HES
Top Plug		HES
Limit Clamp		HES
BASKET		HES
Insert Float		HES
Guide Shoe		HES
Weld-A		HES

**Well Data**

Casing	New/Used	Weight	Size	Grade	From	To	Max. Allow
Surface							
Intermediate							
Production							
Tubing	used	6.9	2.78"		0'	10,350'	
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
DV Tool							

**Materials**

Mud Type	Density	Lb/Gal
Disp. Fluid	production_h20	<b>8.6</b>
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
KCL substitute		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
9/8/06	6.50	9/8/06	0.50	SEE JOB LOG
<b>Total</b>	<b>6.50</b>	<b>Total</b>	<b>0.50</b>	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet	Cement Left in Pipe Reason	

**Cement Data**

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	15	TYPE G	SKS	.2% HR-5	4.96	1.15	15.8

**Summary**

Circulating Breakdown	yes	Displacement Maximum	Preflush: Gal - BBI	20,bbis	Type: h20
Lost Returns	no	Actual TOC	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Cmt Rtn#Bbl		Frac. Gradient	Excess /ReturnGal BBI		Calc.Disp Bbl
Average Shut In: Instant		5 Min. 15 Min.	Calc. TOC:		Actual Disp.
			Treatment: Gal - BBI		Disp:Bbl-Gal
			Cement Slurry Gal - BBI		3.07
			Total Volume Gal - BBI		

**Frac Ring #1**      **Frac Ring #2**      **Frac Ring #3**      **Frac Ring #4**

**THE INFORMATION STATED HEREIN IS CORRECT**

CUSTOMER REPRESENTATIVE  SIGNATURE \_\_\_\_\_



# **CITATION OIL & GAS**

## **WATTON CANYON**

**17-1**

**API Well No.:**  
**4304330290**

**8/25/2006**  
**SUMMIT**

**RECEIVED**

**SEP 09 2006**

**DIV. OF OIL, GAS & MINING**

## **SQUEEZE/PLUG**

**Customer Representative:**

**VAL MEADOWS**

**Halliburton Operator:**

**CLAY SHEFFER**

**Ticket No.:**

**4588069**

# **HALLIBURTON**

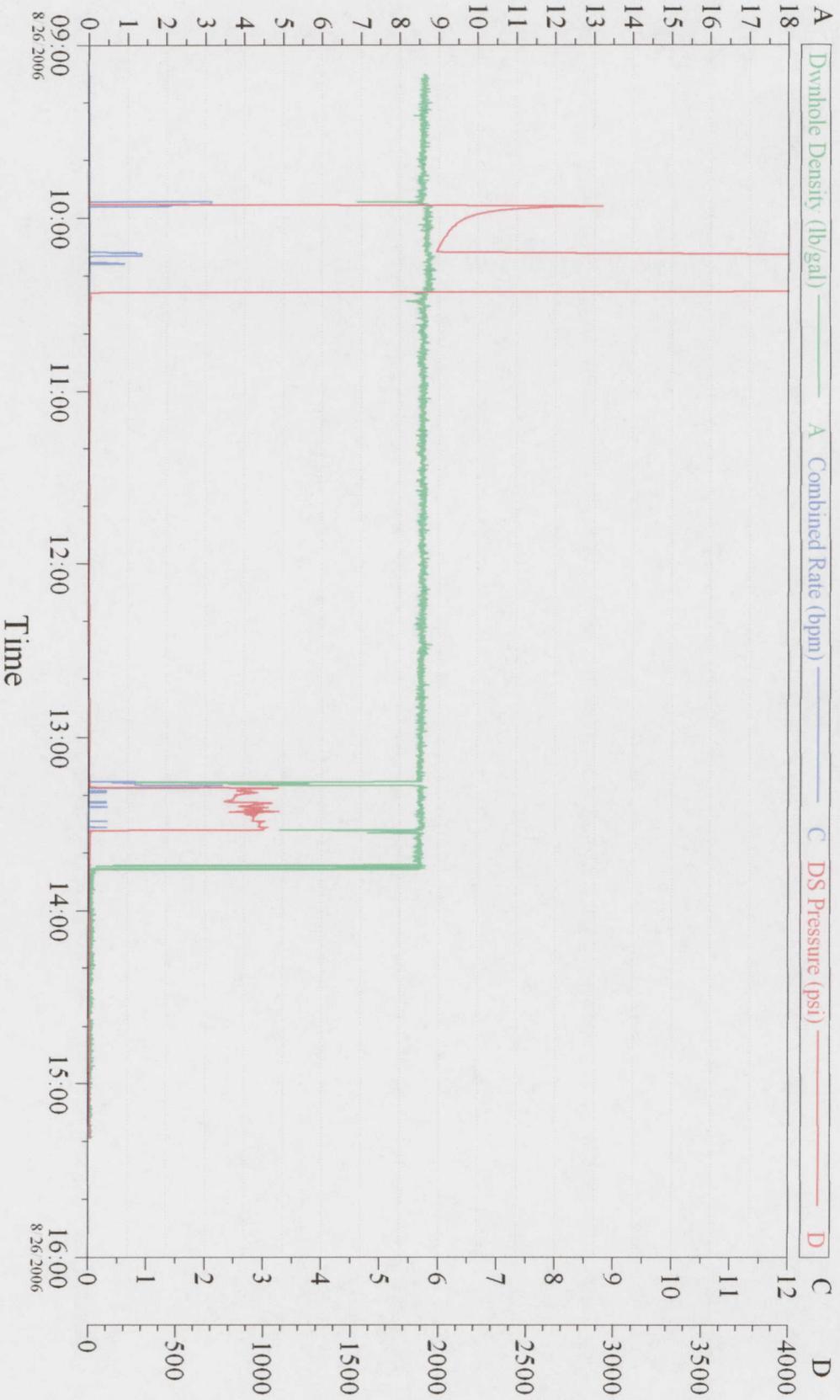
# HALLIBURTON JOB LOG

TICKET # **4588069**      TICKET DATE **8/25/2006**  
 BDA / STATE **Utah**      COUNTY **SUMMIT**  
 PSL DEPARTMENT **Cementing**  
 CUSTOMER REP / PHONE **VAL MEADOWS**  
 API/UWI # **4304330290**  
 JOB PURPOSE CODE      Description **SQUEEZE/PLUG**  
 TWP /      RNG

REGION **NORTH AMERICA LAND**      NWA / COUNTRY **Rocky Mountains**  
 MBU ID / EMPL # **364677**      H.E.S EMPLOYEE NAME **CLAY SHEFFER**  
 LOCATION **Vernal, Utah**      COMPANY **CITATION OIL & GAS**  
 WELL TYPE **02 GAS**  
 WELL LOCATION **COALVILLE, UTAH**      DEPARTMENT **Cementing**  
 LEASE / WELL # **WATTON CANYON**      Well No. **17-1**      SEC /      TWP /      RNG

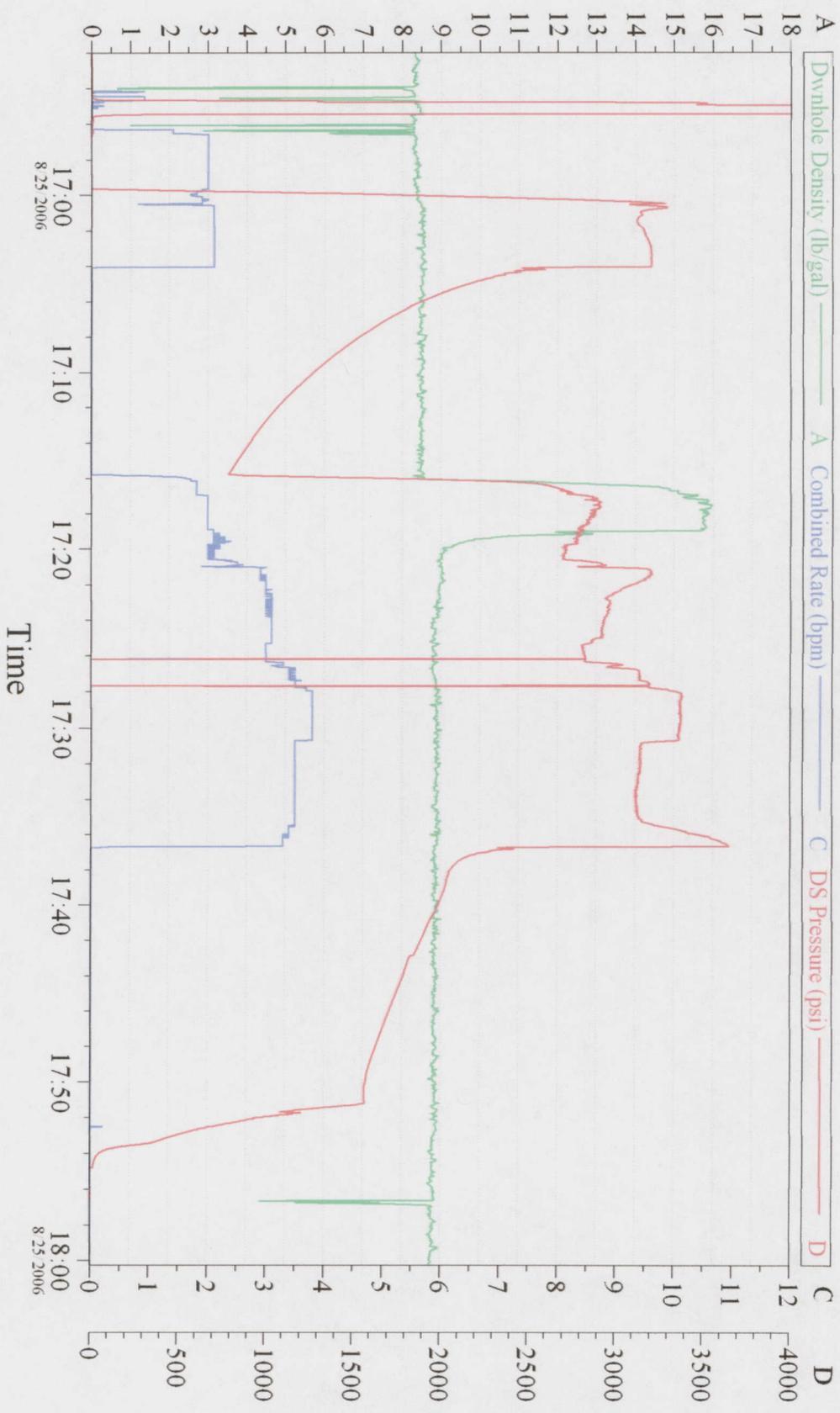
Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Pmps		Press.(PSI)		Job Description / Remarks
				T	C	Tbg	Csg	
8/25/2006								
	1000							CALLED OUT
	1600							ON LOCATION
	1610							SAFETY MEETING
	1653						7000	TEST PUMP & LINES
	1655	2					10	START INJECTION RATE
		2	15				3200	END
	1715	1.8					2500	START CEMENT @15.8# 20-SKS.
			4.1					END
	1717	2					2700	START DISPLACEMENT
	1735		3.3				3650	END
	1750							BLEED WELL
8/26/2006								FREE POINT TBG.
	0955	2						PUMP DOWN TBG. @10,350'
			3				5000	END NO CIRCULATION
								R.I.H W/ WIRELINE MAKE SURE TBG. IS CUT
	1313	1					5	PUMP DOWN TBG. @10,003'
			2.6				1000	END NO CIRCULATION
	1320							RIG PUMP DOWN CSG. 1000 PSI. NO CIRCULATION
	1700							RIG DOWN
								NO CIRCULATION
								THANKS C.SHEFFER AND CREW*

# CITATION PLUG JOB



Customer: CITATION	Job Date: 8-26-06	Ticket #: 4588069
Well Desc: VAL MEADOWS	Job Type: SQUEEZE / PLUG JOB	

# CITATION OIL & GAS SQUEEZE



Customer: CITATION  
Well Desc: VAL MEADOWS

Job Date: 8-25-06  
Job Type: SQUEEZE

Ticket #: 458806

**HALLIBURTON**  
CemWin v1.7.0  
26-Avg-06 17:32

## CEMENT JOB SUMMARY SHEET

Job Type

SQUEEZE/PLUG

	Size	Weight	Grade	Measure d Depth
Casing				
Surface				
Intermediate				
Production	5-1/2"	20#		
Tubing	2-7/8"			10719'
Drill Pipe				
PACKER				10919'

### CEMENT DATA

Spacer	Bbls
Cement 1	<b>20 Sacks</b>
Additives	<b>TYPE G</b> <b>.2% HR-5</b>
	Weight (lb/gal) <b>15.80</b> Yield (cuft/sk) <b>1.15</b> Water (gal/sk) <b>4.96</b>
Cement 2	<b>Sacks</b>
Additives	
	Weight (lb/gal)      Yield (cuft/sk)      Water (gal/sk)
Cement 4	<b>Sacks</b>
Additives	
	Weight (lb/gal)      Yield (cuft/sk)      Water (gal/sk)
Displacement	#REF! (lb/gal)

### CEMENTING EQUIPMENT

Provider	HES
Guide Shoe	ea. <b>Centralizers</b> ea.
Float Shoe	ea. <b>Plug Type</b> ea.
Float Collar	ea. <b>Packer</b> ft.
DV Tool	ft. <b>Retainer</b> ft.

**From:** Lisha Cordova  
**To:** cstallard@cogc.com  
**Date:** 8/10/2006 1:37:48 PM  
**Subject:** Elkhorn Watton Canyon 17-1 SWD - TA

Hi Chad,

Attached is approval to perform TA operations on the well.

Please call Dan Jarvis (Operations Manager) prior to conducting operations so that he can arrange to have a Div. staff member onsite for witnessing/testing. He can be reached at either (801) 538-5338 or on his cell phone at (801) 231-8956.

Yesterday you mentioned that the work may commence sometime next week, please let Dan know if plans have changed.

Thanks for your help!

**CC:** Dan Jarvis; Dustin Doucet

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER <b>Fee</b>
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:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME <b>Elkhorn Watton Canyon Unit</b>
2. NAME OF OPERATOR: <b>Citation Oil &amp; Gas Corp.</b>		8. WELL NAME and NUMBER: <b>Elkhorn Watton Canyon 17-1</b>
3. ADDRESS OF OPERATOR: P O Box 6906888 CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77269</b>		9. API NUMBER: <b>4304330290</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2335' FNL &amp; 2052' FWL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 17 2N 7E</b>		10. FIELD AND POOL, OR WLD/CAT: <b>Elkhorn Field</b> COUNTY: <b>Summit</b> STATE: <b>UTAH</b>
5. PHONE NUMBER: <b>(281) 517-7800</b>		

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"/> 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 checked="" type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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.

Citation requests permission to temporarily abandon the Elkhorn Watton Canyon 17-1 with the attached procedure. Chad Stallard with Citation received verbal approval for this procedure prior to this sundry being submitted.

**RECEIVED**

**AUG 10 2006**

**DIV. OF OIL, GAS & MINING**

**COPY**

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>8/10/2006</u>

(This space for State use only)

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
DATE 8/10/06  
BY: [Signature] (See Instructions On Reverse Side)

(5/2000)

Well History Summary

Well: Elkhorn Field, Watton Canyon 17-1 SWD

Surface Location: 2335' FNL & 2052' FWL, SE NW, Section 17, T-2-N, R-7-E  
Summit County, Utah

API#: 43-043-30290

Elevations: 6756' GL  
6776' KB

TD: 11,134'  
PBTD: 11,127'

Casing: 16" @ 120' (22" Hole) cmt'd W/? sx  
9 5/8", 40#, N-80 LTC @ 1545' (12 1/4" Hole) cmt'd W/835 sx  
5 1/2" 17, 20, & 23# csg to 9936' & 5 1/2" 20# csg F/9936 to TD @ 11,112' (6 1/2" Hole) cmt'd  
W/2900 sx Class H

Tubing: 347 jts, 2 7/8", 6.5#, N-80, EUE, 8rd DUOLINE-2 tbg

Initial Completion: 6-10/88 CO well to PBTD @ 11,077'. Perf Nugget F/10,956 - 77 & 78 - 11,000' (4 JSPF). Run temp log F/10,832 - 11,056' (wtr flow noted F/Nugget). Set CIBP @ 10,944 W/1 sk cmt on top of it. Perf Twin Creek F/10,826 - 64 & 72 - 903' (2 JSPF). Tag PBTD @ 10,919'. Acidize perfs W/7500 gals 28% HCl W/NE & FE adds using 150 BS to divert @ 5 BPM & 3400 psi max. Set CIBP @ 10,800' W/1 sk cmt on top of it. Perf Twin Creek F/10,574 - 602 & 692 - 720' (2 JSPF). Acidize perfs W/6048 gals 28% HCl using 120 BS to divert. Set CIBP @ 10,686' W/1 sk cmt on top of it. Re-acidize perfs 10,574 - 602 W/2500 gals 28% HCl. Run temp log & discover fluid movement F/below perfs. Set CIBP @ 10,675 & test to 3000 psi - OK. Set CICR @ 10,490'. SQZ perfs 10,574 - 602 in 3 attempts W/a total of 600 sx cmt. CO well to 10,658 & test SQZ - OK. Perf Twin Creek F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (2 JSPF). Acid frac W/10000 gals 28% using 80 BS to divert. Set CIBP @ 10,565' & test to 3000 psi - OK. Reperf Twin Creek F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (2 JSPF). Acidize all perfs W/9500 gals 28% HCl using 225 BS to divert. Set CIBP @ 10,300' W/3 sx cmt on top of it & test to 2000 psi - OK. TA well.

Initial Potential: Unsuccessful completion

Logs Available: None

History Updated: 12/5/02

Well Status: SI Nugget SWD well

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DIV. OF OIL, GAS & MINING

Perforations:

Twin Creek: 10,398 - 428, 38 - 96, 514 - 26, & 36 - 41' (4 JSPF) (Shot - 9 & 10/88)  
(SQZ'd - 12/93)  
10,574 - 602' (2 JSPF) (Shot - 8/88) (SQZ'd - 9/88)  
10,692 - 720' (2 JSPF) (Shot - 8/88) (SQZ'd - 12/93)  
10,826 - 64 & 72 - 903' (2 JSPF) (Shot - 7/88) (SQZ'd - 12/93)

Nugget: 10,950 - 11,100' (4 JSPF) (12/93)  
OH from 11,112 - 11,134' (7' of sd left in OH section to 11,127') (1/94)

Workovers & Other History:

- 12/93 CO well to 10,563'. SQZ all open Twin Creek Perfs F/10,398 - 428, 38 - 96, 514 - 26, & 36 - 41'. CO well to 10,561' & test SQZ - OK. CO well to 10,740'. Re-SQZ perfs - no other data available. CO well to 10,732' & test SQZ to 1340 psi. Lost 50 psi in 30 min. CO well to 10,932'. Spot cmt F/10650 - 920' & pressure test - OK. CO well to 11,108'. Perf Nugget F/10950 - 11,100'. Acidize W/5000 gals 15% HCl. Deepen well to 11,134'. Spot 27 sx sd. Set CICR @ 10,553' & SQZ W/150 sx cmt. CO well to 11,127'. Set PKR @ 10,921'. Test backside to 1000 psi - OK. Establish pump-in rate of .3 BPM @ 1000 psi, .75 BPM @ 1500 psi, & 2.25 BPM @ 2000 psi. Convert to wtr disposal well.
- 9/95 Pump 14,100 gals of 3 - 8% HCl down well in an attempt to increase injectivity. Establish final injectivity @ 3.5 BPM @ 1700 psi.
- 4/97 \* Test injectivity @ .6 BPM @ 3000 psi. Pump 145 BBLs of Mara-seal followed by 45 BBLs treated wtr to a max pressure of 4,240 psi dn csg-tbg annulus. Pressure test annulus to 1000 psi for 15 min - OK. SI well. (\$17,116)
- 10/02 Attempt to establish csg integrity - would not hold. Run RA tracer survey & found PKR @ 10,921' to be leaking. Apply to the State of Utah Oil & Gas Commission for a 1 year variance from having to fix or P&A the well until further Elkhorn field waterflood studies can be completed.

Work Over Procedure:

Comments: 1. Suspected packer leak.

Objective: TA well

1. MIRUSU.
2. ND Tree. NU 5M BOP's.
3. Release packer at 10,919' and TOO H w/ 2-7/8" tubing, standing back. Perform visual inspection of tubing.
4. RIH w/5 1/2" CIBP and set at 10,900. Dump 100' cement on top of CIBP.
5. WOC. Pressure test annulus to 1000 psi. Contact Chad Stallard (713-249-4671) with the results. If well will MIT test then proceed to step 8. If not continue to step 6.
6. POOH and PU 5 1/2" CIBP. RIH and set at 10,350'. Set CIBP and dump 100' cement on top.
7. WOC and test. Contact Chad Stallard with results.
8. POOH leaving 2 jts tubing in the hole.
9. ND BOP's. NU tree.
10. RDMOSU.

**RECEIVED**

**AUG 09 2006**

**DIV. OF OIL, GAS & MINING**

List of Citation Contacts

Foreman  
Engineer

Val Meadows  
Chad Stallard

Cell: 435.640.0559 Office: 435.336.5631  
Office: 281-517-7527 Cell: 713.249.4671

Date: 12-5-02

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

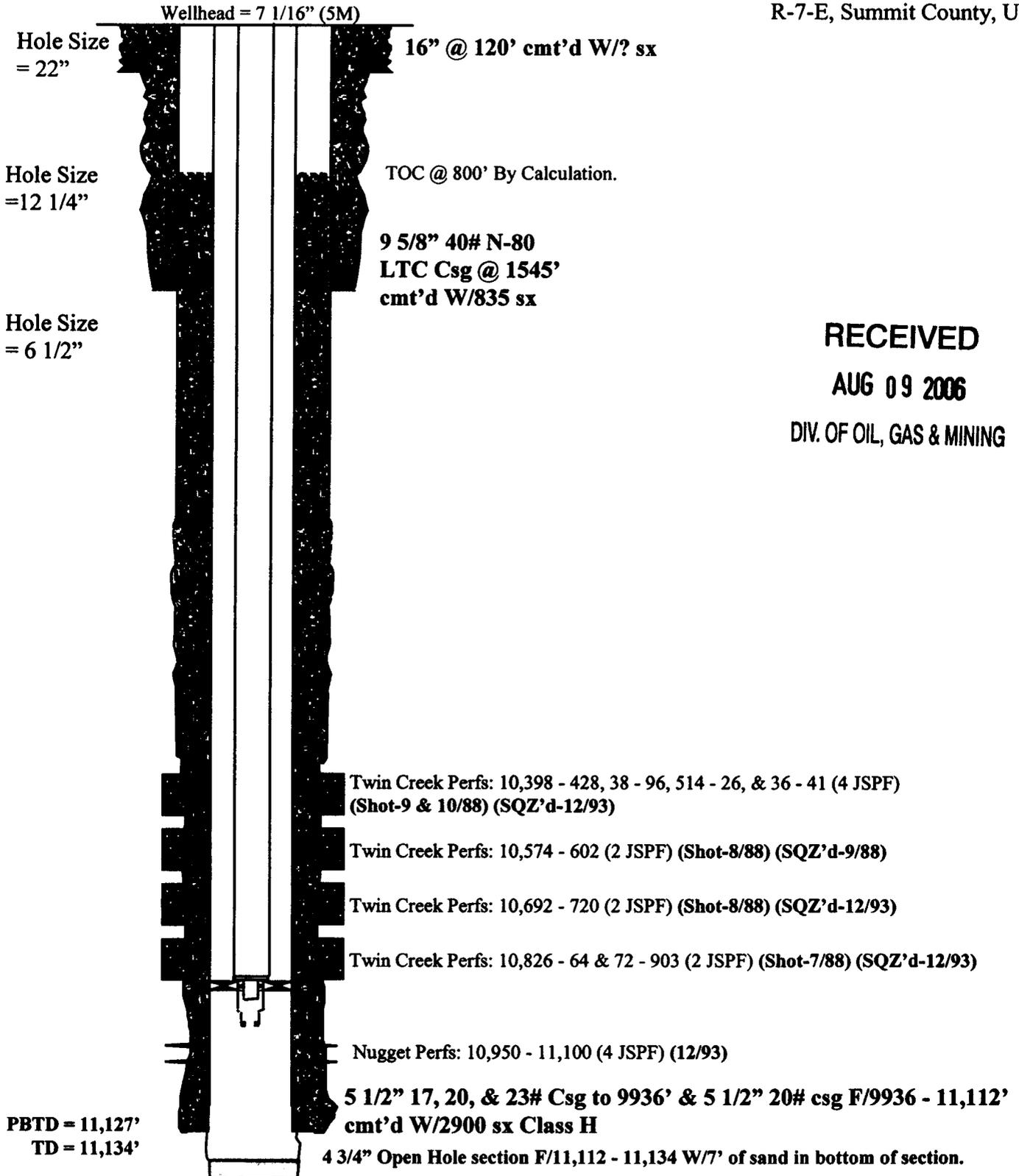
Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram

### Present Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



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DIV. OF OIL, GAS & MINING

Date: 8-8-06

# Citation Oil & Gas Corporation *Chad Stallard* Elkhorn Field, Watton Canyon 17-1 SWD

Ground Elevation = 6756'

RKB = 6776'

KB = 20'

## Wellbore Diagram

Proposed

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT

Hole Size  
= 22"

16" @ 120' cmt'd W/? sx

Hole Size  
= 12 1/4"

TOC @ 800' By Calculation.

9 5/8" 40# N-80  
LTC Csg @ 1545'  
cmt'd W/835 sx

Hole Size  
= 6 1/2"

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AUG 09 2006

DIV. OF OIL, GAS & MINING

*15 min.*  
*2nd plug*  
*100' balanced plug*  
*10350 to 10250'*  
*Tag plug @ 10250'*  
*pressure test Csg*  
*to 1000 psig*  
*No pressure test*

*Plug*  
*same*

*8/23 chg. of plans DD.*

*8/9 Verbal "TA" initial FA wellbore*  
*1250' Type 2 or Class H, 1.15 cmt per sec*  
*5 1/2" csg.*

*100' Balanced Plug (if tagged @ +10,230 will req. add'l cmt on top @ later date if not OK.)*  
*25x on top (+12') short term*  
*ultimate P&T requires 100'*

Twin Creek Perfs: 10,398 - 428, 38 - 96, 514 - 26, & 36 - 41 (4 JSPF)  
(Shot-9 & 10/88) (SQZ'd-12/93)

Twin Creek Perfs: 10,574 - 602 (2 JSPF) (Shot-8/88) (SQZ'd-9/88)

Twin Creek Perfs: 10,692 - 720 (2 JSPF) (Shot-8/88) (SQZ'd-12/93)

Twin Creek Perfs: 10,826 - 64 & 72 - 903 (2 JSPF) (Shot-7/88) (SQZ'd-12/93)

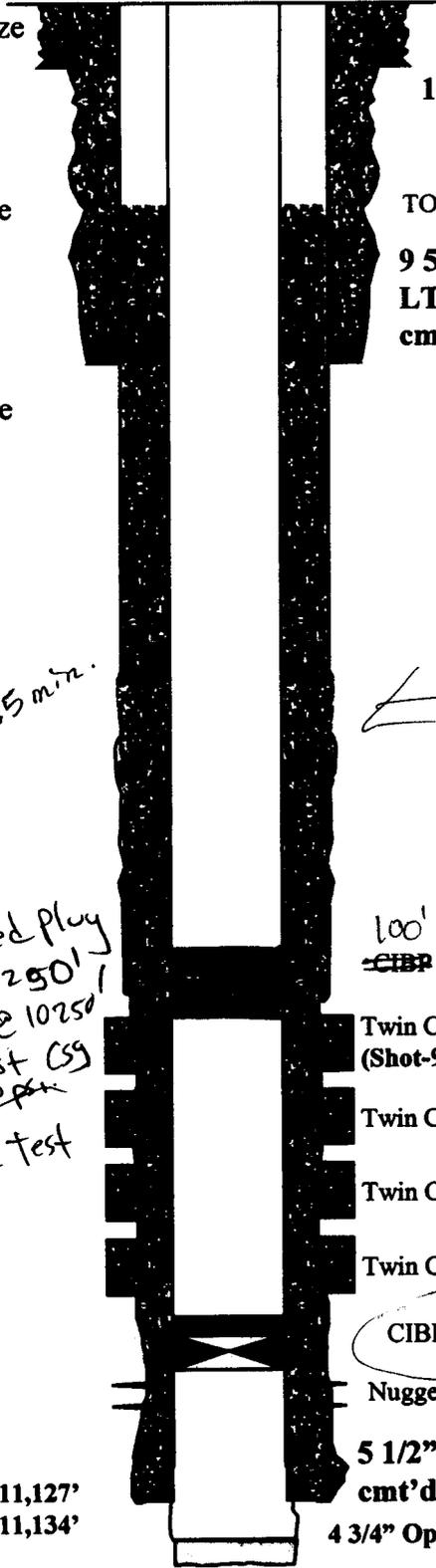
CIBP @ 10,900' w/100' cmt

Nugget Perfs: 10,950 - 11,100 (4 JSPF) (12/93)

5 1/2" 17, 20, & 23# Csg to 9936' & 5 1/2" 20# csg F/9936 - 11,112'  
cmt'd W/2900 sx Class H

4 3/4" Open Hole section F/11,112 - 11,134 W/7' of sand in bottom of section.

PBTD = 11,127'  
TD = 11,134'



**From:** Lisha Cordova  
**To:** Sharon Ward  
**Date:** 8/4/2006 12:59:59 PM  
**Subject:** Re: Elkhorn Watton Canyon 17-1 SWD Variance Request

Hi Sharon,

The approved injection zone/interval for the referenced well is the Nugget Formation/10956-11100' (Cause No. UIC-143). Approval to commence injection was granted on 7/5/94, with a maximum allowable injection pressure of 1500 psig, & maximum allowable injection rate of 10,000 bbls per day.

A RAT survey was conducted on 10/29/02 (failed to meet the mechanical integrity requirements of the Div. due to packer leak & "squeezed" perforation leaks at 10826-10864', and 10872-10903'). Since then, Citation has been granted 3 MIT variances with the conditions that the; 1) well remain shut-in, and 2) fluid level & pressure on the backside be continually monitored. Both conditions are being met.

Citation will need to comply with the requirements of R649-5 et al "Underground Injection Control of Recovery Operations and Class II Injection Wells" (rules located at [www.ogm.utah.gov](http://www.ogm.utah.gov)) before approval to inject into any other zones/intervals will be granted.

It is imperative that action be taken immediately by Citation to meet the mechanical integrity requirements of R649-5-5 "Testing and Monitoring of Injection Wells". R649-5-2.1 states "injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved". Any further MIT variances will need to be approved by Div. management (see below).

UIC permitting questions can be directed to Brad Hill, Permitting Manager at (801) 538-5315, or Dan Jarvis, Operations Manager at (801) 538-5338.

Thanks for your assistance in this matter.

Lisha Cordova, Petroleum Specialist  
Div. of Oil, Gas, and Mining  
(801) 538-5296

>>> "Sharon Ward" <SWard@cogc.com> 8/2/2006 12:43 PM >>>  
Lisha,

I spoke to the engineer over this well and he has indicated that Citation would prefer to bring the Elkhorn Watton Canyon Unit 17-1 (formerly UPRC #1) in Section 17, Township 2 North, Range 7 East, Summit County, back on injection. Can we set the packer 50' above the top perforation which I find at 10,398'? That would place the packer at +/- 10, 348'. Citation would then MIT the well and place back on injection. The API number for this well is 43-043-30290.

If we can do this what do you need from us? Will a sundry suffice?

Thank you,

Sharon E. Ward  
Manager Permitting / Well Records  
Citation Oil & Gas Corp.  
Wk: 281-517-7309

Fax: 281-469-9667

**CC:** Brad Hill; Dan Jarvis

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File \_\_\_\_\_  
Elkhorn WCU 17-1 SWD  
(Loc.) Sec 17 Twp 2N Rng. 7E  
(API No.) 43043-30290

Suspense  
(Return Date) \_\_\_\_\_  
(To-Initials) \_\_\_\_\_

Other  
DG/DOGM

1. Date of Phone Call: 7-25-06 Time: 3:40

2. DOGM Employee (name) L. Cordova ( Initiated Call)  
Talked to:  
Name Sharon Ward ( Initiated Call) - Phone No. (281) 517-7800  
of (Company/Organization) Citation

3. Topic of Conversation: Discuss options other than  
a 4th MIT variance request (see attached).  
EPA/KIC Permit Requirements discussed.

4. Highlights of Conversation: \_\_\_\_\_

- 1) PA well.
- 2) withdraw KIC permit;
- 3) and set bridge plug between upper perfs (10,826-10,864') & lower perfs (10,956-11,100');)
- 4) and req. monitor well status.

Provide detailed info. on future well plans & Elkhorn  
"Watson Cyn. Unit" waterflood study.

\* Sharon will discuss w/ engineers & provide add'l info.



July 18, 2006

RECEIVED  
JUL 25 2006  
DIV. OF OIL, GAS & MINING

Dan Jarvis  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 8114-5801

Re: Request for Variance Extension  
Mechanical Integrity Testing  
Per Utah Rule R649-9-8  
Elkhorn (Watton Canyon) Unit 17-1 SWD  
Summit County, Utah

Dear Mr. Jarvis:

Citation Oil & Gas Corp. requests a year extension on the Pressure Testing Variance for the Elkhorn (Watton Canyon) Unit 17-1 SWD (formerly UPRC #1) in section 17, Township 2 North, Range 7 East of Summit County, Utah, API No. 43-043-30290 under Utah Rule R649-9-8.

Per the requirements stipulated in the variance approval letter dated July 28, 2005, the well continues to be shut-in with no volumes or pressures and has been monitored monthly with UIC form 3 being submitted as required.

There has been no significant, positive response to the waterflood but will continue to monitor and evaluate the performance of the unit throughout the year.

Respectfully Requested,

A handwritten signature in cursive script that reads "Sharon Ward".

Sharon Ward  
Permitting Manager

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			7. UNIT or CA AGREEMENT NAME: Elkhorn Watton Canyon Unit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>			8. WELL NAME and NUMBER: Elkhorn Watton Canyon 17-1
2. NAME OF OPERATOR: Citation Oil & Gas Corp.			9. API NUMBER: 4304330290
3. ADDRESS OF OPERATOR: P O Box 6906888    CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>		PHONE NUMBER: (281) 517-7800	10. FIELD AND POOL, OR WILDCAT: Elkhorn Field
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>2335' FNL &amp; 2052' FWL</u>			COUNTY: <u>Summit</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SE NW 17 2N 7E</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 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <u>9/11/2006</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input checked="" type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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 checked="" type="checkbox"/> OTHER: <u>MIT</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.

Citation moved in service unit, after several attempts pulled tubing. Tripped back in with tubing, Spotted 220 gal of 12.5% bleach with 10 bbls clean water. Displaced with 25 bbls clean water down tubing at 137 joints in. Continued working in hole washing down casing up tubing. Bringing up a lot of Mara seal solids. Finished in hole with 315 joints. Hauled one load of water and Mara seal to disposal. Continued working in hole with tubing to 10381'. Pulled out 3 stands. Hauled a load of water and Mara seal to disposal. LD 1 joint. Mixed and spotted 15+ sacks cement at 10350' to 10250'. Rigged down cement truck. Sent load of Mara seal and water to disposal. Tagged plug @ 10200'. LD one joint. Changed out leaking pipe rams on BOP. Pressure tested to 1000# for 15 minutes. Lisha Cordova with state of Utah witnessed test. Circulated packer fluid in casing. Took out of hole with tubing and laid down. Nipped down BOP. Ran in hole with 2 joints, collar on bottom. Hung off tubing. Nipped up well head. Rigged down and drained up pump lines. Emptied and cleaned flat tank. Rigged down and moved off service unit. Moved off pump and tank. BOP and rental tank. Well temporarily abandoned with successful MIT on 9/8/06.

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

Date: 10-31-06  
By: [Signature]

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>[Signature]</u>	DATE <u>9/19/2006</u>

(This space for State use only)

**RECEIVED**  
**SEP 25 2006**  
**DIV. OF OIL, GAS & MINING**

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEE</b>
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:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD</u>		7. UNIT or CA AGREEMENT NAME: <b>Elkhorn Watton Canyon Unit</b>
2. NAME OF OPERATOR: <b>Citation Oil &amp; Gas Corp.</b>		8. WELL NAME and NUMBER: <b>Elkhorn Watton Canyon Un 17-1</b>
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>	PHONE NUMBER: <b>(281) 517-7309</b>	9. API NUMBER: <b>4304330290</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2335 FNL 2052 FWL</b>		10. FIELD AND POOL, OR WLD CAT: <b>Elkhorn (Watton Canyon)</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 17 2N 7E</b>		COUNTY: <b>Summit</b>
		STATE: <b>UTAH</b>

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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<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 type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" 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.  
 Citation Oil & Gas Corp. proposes to plug and abandon the Elkhorn Watton Canyon 17-1 (formerly UPRR 1) with the attached procedure.

COPY SENT TO OPERATOR  
 Date: 4/11/07  
 Initials: SHW

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>4/11/2007</u>

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING  
 DATE: 5/29/07  
 BY: [Signature] (See Instructions on Reverse Side)  
 \* See Conditions of Approval (Attached)

RECEIVED  
 APR 13 2007  
 DIV. OF OIL, GAS & MINING

(5/2000)

PROPOSED PLUGGING PROCEDURE FOR  
CITATION OIL AND GAS CORP.

Well: Exxon UPRC #1 SWD  
Field: Elkhorn  
County: Summit County, Utah

Work Over Procedure:

Objective: P&A well

1. MIRUSU. Load well with FSW.
2. Remove Tree. Install BOPS
3. RIH w/tubing to 6,000'.
4. Set 30 sx plug from 5800' – 6000'.
5. Pull up reverse out and WOC.
6. Lower tbg and tag TOC and record.
7. Pull tbg up to 1600'.
8. Set 30 sx plug from 1400' – 1600'.
9. Pull up reverse out and WOC.
10. Lower tbg and tag TOC and record.
11. Lay tbg down.
12. Set 30 sx cement plug from 4' – 50'.
13. Cut and cap well 4' below ground level.
14. RDMOSU.

List of Citation Contacts

Foreman	Val Meadows	Cell: 435.640.0559	Office: 435.336.5631
Engineer	Chad Stallard	Office: 281-517-7527	Cell: 713.249.4671

Date: 12-5-02

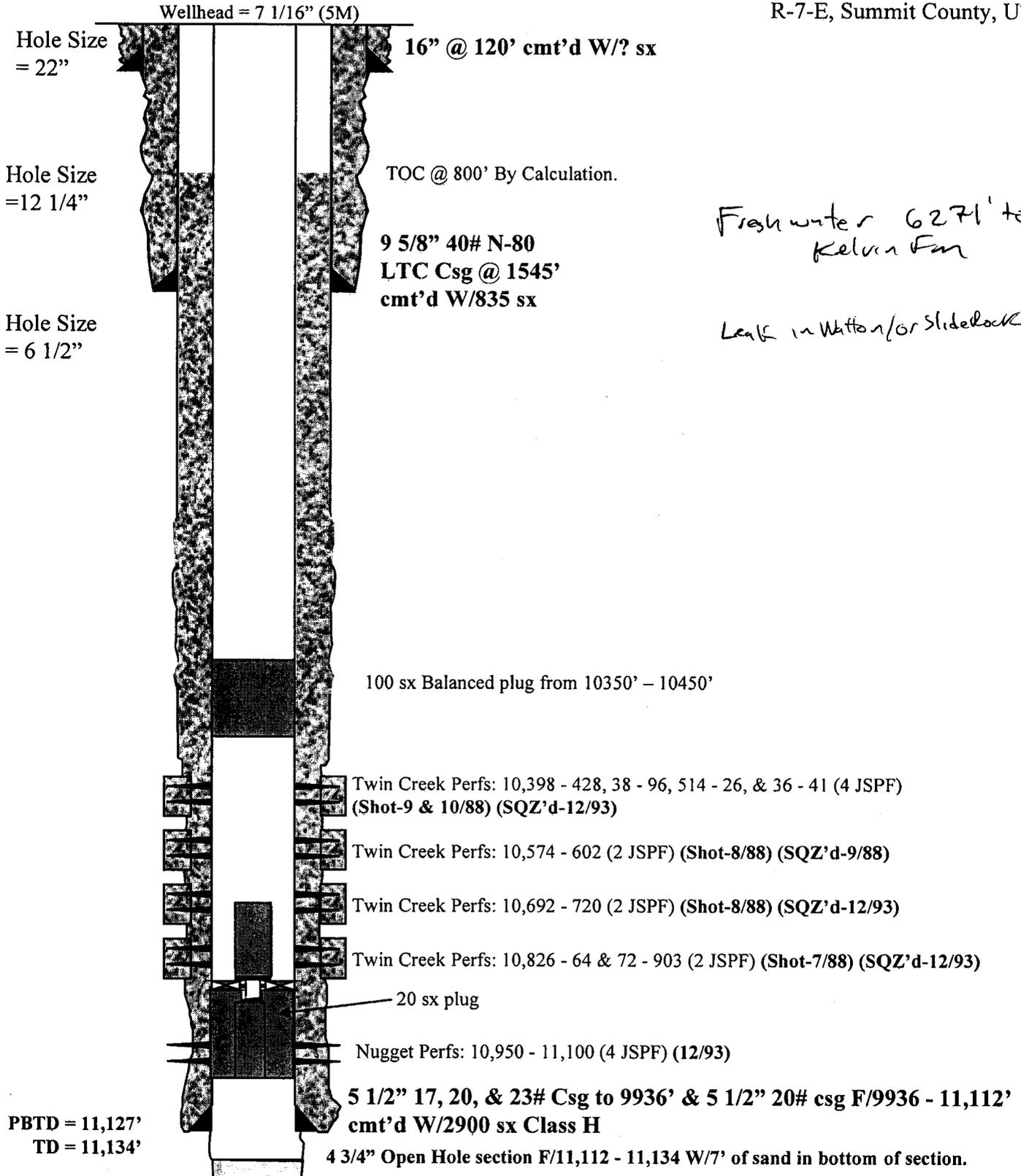
# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram Present Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT



*Fresh water 6271' to 6286'  
Kelvin fm*

*Leak in Watton/or Slidewalk fm*

Date: 12-5-02

# Citation Oil & Gas Corporation Elkhorn Field, Watton Canyon 17-1 SWD

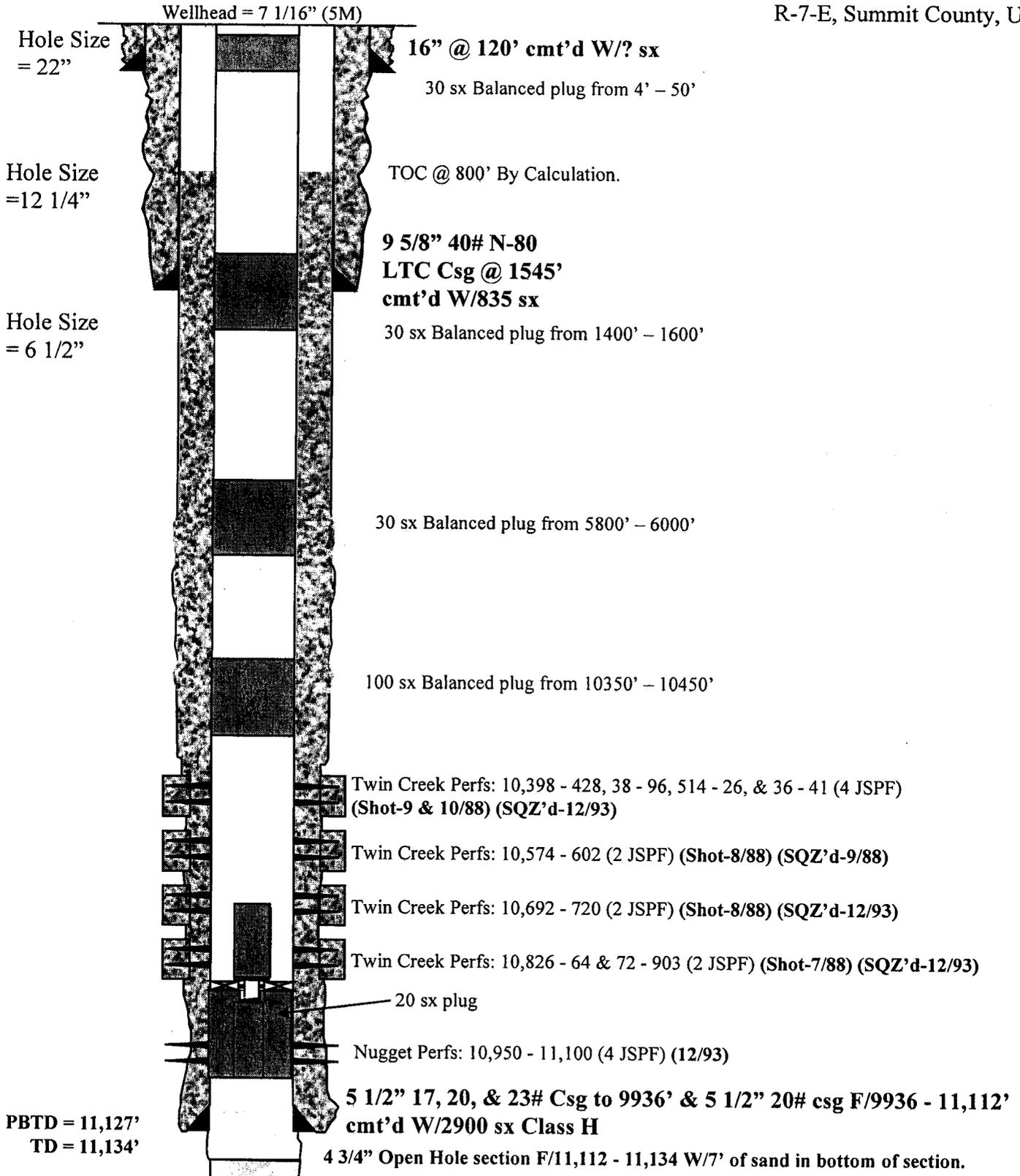
Ground Elevation = 6756'  
RKB = 6776'  
KB = 20'

## Wellbore Diagram

Proposed Status

### Surface Location

2335' FNL & 2052' FWL,  
SE NW, Sec. 17, T-2-N,  
R-7-E, Summit County, UT





State of Utah

Department of  
Natural Resources

MICHAEL R. STYLER  
*Executive Director*

Division of  
Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

**Approval Conditions:**

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

***CONDITIONS OF APPROVAL  
TO PLUG AND ABANDON WELL***

Well Name and Number: Elkhorn Watton Cyn Unit 17-1  
API Number: 43-043-30290  
Operator: Citation Oil & Gas Corporation  
Reference Document: Original Sundry Notice dated April 11, 2007,  
received by DOGM on April 13, 2007

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. Cement shall be Class H neat cement mixed at 16.4 ppg with a yield of 1.06 cf/sk unless a different type is approved by the Division.
3. **Add Plug #1:** A 200' plug ( $\pm 25$  sx) shall be balanced across the fresh water flows in the Kelvin formation and also the top of the Stump formation from 6400' to 6200' (R649-3-24-3.3).
4. **Move Plug #2 (procedural step #4):** The plug shall be placed approximately 1800' shallower across the Kelvin formation top from 4230' to 4000' (R649-3-24-3.3).
5. **Plug #4 (procedural step #12)** shall include filling the 9 5/8" x 5 1/2" annulus from a minimum of 50' MD back to surface.
6. The casing walls adjacent to all plugs shall be cleaned by a casing scraper, wax knife or other generally accepted method prior to setting any cement plugs. A gauge ring should be run to the appropriate depth to verify the casing walls are clean.
7. All balanced plugs shall be tagged to ensure the plugs are at the depths specified.
8. All intervals between plugs shall be filled with non-corrosive fluid.
9. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration. Evidence of compliance with this rule should be supplied to the Division upon completion of reclamation.
10. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
11. If there are any changes to the plugging procedure or wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.
12. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet  
Petroleum Engineer

May 29, 2007

Date

# Wellbore Diagram

API Well No: 43-043-30290-00-00 Permit No: UIC-143.1 Well Name/No: ELKHORN WATTON CYN U 17-1  
 Company Name: CITATION OIL & GAS CORP  
 Location: Sec: 17 T: 2N R: 7E Spot: SENW  
 Coordinates: X: 484673 Y: 4528477  
 Field Name: ELKHORN  
 County Name: SUMMIT

### String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (Gcf)
SURF	1545	9.625	40	1545	2.349
PROD	11114	5.5	20	1315	8.031
PROD	11114	5.5	20	606 (1921)	
PROD	11114	5.5	20	1134 (3055)	
PROD	11114	5.5	17	5385 (8440)	7.661
PROD	11114	5.5	23	1494 (9934)	8.407
PROD	11114	5.5	20	1176 (1110)	
TI	10810	2.875			
PKR	10810				

9 7/8" x 5 1/2" → 3.835



Plug #4 (Step #12)  
 Propose 30SK outside -  $50' / (1.06) (3.835) = 130K$   
 inside  $(170K) (1.06) (8.031) = 144'$   
 Cement from 1545 ft. to surface  
 Surface: 9.625 in. @ 1545 ft.  
 Hole: Unknown

Plug #3 (Step #8)  
 $(30SK) (1.06) (8.031) = 255'$  o.k.

Move Plug #2 (Step #4)  
 Move up hole 1800' isolating Kelvn/Bear Rv Frn  
 Plug from 4230' - 4000'  
 $(30SK) (1.06) (7.661) = 244'$  o.k.

\* Add Plug #1 (6400' to 6200')  
 To protect Fresh water flow and isolate stump  
 $6" 200' / (1.15) (7.661) = 230K$   
 $4" 200' / (1.06) (7.661) = 250K \rightarrow 250K \text{ min}$

Cement from 8440 ft. to 800 ft.

Plug from 10350' - 10250' (existing)  
 17" Tapped TOC @ 10200'  
 > 10398

Cement from 11114 ft. to 9700 ft.  
 > 10903  
 Packer: @ 10810 ft.

Tubing: 2.875 in. @ 10810 ft.  
 > 6953  
 Production: 5.5 in. @ 11114 ft.

Hole: Unknown  
 > 11100

### Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	11114	9700	H	550
PROD	8440	800	H	550
SURF	1545	0	H	835

### Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
10956	11100			
10398	10903			

### Formation Information

Formation	Depth
BRRVR	3726
KELVN	4230
STUMP	6367
PREU	6910
TWNCR	9446
WTCYN	10295
BOURIDG	10511
SLIDE RK	10826
GYP SPR	10916
Wuggett	10947

TD: 11114 TVD: PBTD: 10300

**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: <b>FEE</b>
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			7. UNIT or CA AGREEMENT NAME: <b>Elkhorn Watton Canyon Unit</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD</u>			8. WELL NAME and NUMBER: <b>Elkhorn Watton Canyon Un 17-1</b>
2. NAME OF OPERATOR: <b>Citation Oil &amp; Gas Corp.</b>			9. API NUMBER: <b>4304330290</b>
3. ADDRESS OF OPERATOR: P O Box 690688		CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77269</b>	10. FIELD AND POOL, OR WILDCAT: <b>Elkhorn (Watton Canyon)</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2335 FNL 2052 FWL</b>			COUNTY: <b>Summit</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 17 2N 7E</b>			STATE: <b>UTAH</b>

**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: <u>9/15/2007</u>	<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 type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" 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.

Removed tree. Unable to remove tbg hanger. Removed 5 1/2" csg WH. LD 2 jts tbg & WH w/tbg hanger stuck. Installed a different WH. NU BOP's & RU equip & rig floor. PU tbg. RIH to 6400'. Broke circ. & set 30 sxs 16.4# cmt plug from 6200-6400'. Put 15 gal pkr fluid, pulled tbg out of cmt. Rvs'd clean & WOC. Tagged TOC @ 6177'. Pulled tbg to 4230'. Set 30 sxs 16.4# cmt plug from 4230-4000'. Pulled tbg out of cmt. Rvs'd out clean. WOC. Tagged plug @ 3972'. Pulled to 1599'. Set 30 sxs cmt plug. Pulled up rvs'd out & WOC. Did not tag. Pulled back up to 1599'. Set another 30 sxs cmt plug & pulled up out of cmt. Rvs'd out. Tagged cmt plug @ 1403'. LD tbg & pulled up to 140.48'. Set 17 sxs cmt plug from 144'-4' inside 5 1/2" csg. LD tbg. RD tongs, floor & removed BOP's. Dug cellar w/backhoe. Cut window in 9 5/8" csg. Cut window in 5 1/2" window & cut off WH. Set 13 sxs cmt plug inside 9 5/8". Did not set. Cmt dropped inside 5 1/2". Set 17 sxs cmt plug inside 5 1/2" from 144-4'. Tagged cmt inside 5 1/2" @ 2'. RD MO. Well plugged and abandoned on 9/15/2007. Plugs witnessed by DOGM.

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

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>9/17/2007</u>

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SEP 20 2007**

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

FORM 9

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The above well was plugged and abandoned on 9/15/2007. The location has since been reclaimed per the surface agreement and is ready for inspection to release this well from our bond.

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>10/27/2009</u>

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