

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

820' FNL, 1190' FWL, Sec. 31, T-32-N, R-14-W, NMPM

5. Lease Number
751-95-0008

6. If Indian, All. or
Tribe Name

Ute Mountain Ute

7. Unit Agreement Name

8. Well Name & Number

Ute Mountain Ute #48

9. API Well No.

30-045-29478

10. Field and Pool

Wildcat Hermosa

Barker Dome Dst Creek

Barker Dome Ismay

Barker Dome Akah/Upper

Barker Creek

11. County and State

San Juan Co, NM

RECEIVED

DEC 10 1997

Bureau of Land Management
Durango, Colorado

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other -

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to complete the subject well according to the attached procedure.

SEE ATTACHED
CONDITIONS OF APPROVAL

RECEIVED
DEC 22 1997

OIL CON. DIV.
BUREAU OF LAND MANAGEMENT

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

Signed *Randy Stubbins* Title Regulatory Administrator Date 12/9/97

(This space for Federal or State Office use)

APPROVED BY *(Signature)* Title ARCA MANAGER Date DEC 10 1997

CONDITION OF APPROVAL, if any:

ACTING

NMCCO

Ute Mountain Ute #48
Sec. 30, T-32-N, R-14-W
Lat. 36-57.3'N, Long 108-21.2'W
San Juan County, New Mexico
Area 10 Team
Completion Procedure
KB 6,863'
GL 6,849'

****Comply with all Federal, State, and local rules and regulations relating to oil and gas operations at all times****

1. Move in rig up Drake #28 rig. Rig up safety equipment Rig up flow lines to pit and flare line. Use extreme caution when tripping in hole near stage collar and float collar. Drilling reports indicated that 5-1/2" casing may have been set 30' high, therefore stage tool and float collar could be 30' high than indicated on wellbore diagram. Pick up 4 3/4" bit on 2 7/8" L-80 6.5# EUE tubing and run in hole to drill up stage tool at 7,525' and clean out casing to 9,365' (22' of rathole. PBTD float collar at 9,365', bottom perf @ 9,343'). POOH and pick up 5 1/2" casing scraper and clean out to PBTD. Displace water with 220 bbls 2% filtered KCl water. POOH and stand tubing back. Set 4x400 bbl lined upright tanks for acid and tanks for KCl and Purgel.

2. Rig up Basin Perforating with pack-off to run CBL. Run CBL from PBTD to 7,400' (or 2000' minimum logging charge) with 1,000 psi on casing. Run pack-off. Run 5 1/2" Baker Model "R" Retrievmatic packer on 2 joints of 2 7/8" tubing and test casing to 7,000 psi. Pull tubing and packer.

******* Lower Barker Creek *******

3. Rig up Basin Perforating with pack-off. Perforate Lower Barker Creek from 9,343' - 9,329' (14') and 9,313' - 9,306' (7') (Density log depths) using 4" HEX casing gun with 1 shots per foot, 0 degree phasing, using 22.7 gram 0.4" diameter charges (21 total perfs). Record surface pressure and monitor for flow during perforating. Anticipate H2S (Lower Barker Creek may have as much as 7000 ppm H2S).

4. RIH with 5 1/2" Baker Model "R" retrievmatic packer and 2 7/8" tubing. Set packer at 9,200'. Pressure test annulus to 2,000 psi and hold 2000 psi on annulus. Monitor annulus pressure during breakdown. Rig up Halliburton to breakdown perforations. Breakdown perforations with 1500 gal 15% Hcl with 5 gal/1000 HAI-8M inhibitor @ 5

BPM. Drop 35 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum treating pressure is 7000 psi. Rig down Halliburton. Monitor rate and pressure until stable. Flow back well until dead. Kill well with 2% KCl, if necessary.

5. Release packer. TIH and knock balls off perforations. Pull up and re-set packer at 9,200'. Flow back well at 1/4 BPM, if possible. If well will not flow then rig up swab unit and swab well. Record all returns and periodically take fluid samples throughout flowback.

6. Contact office personnel before proceeding with completion. If production rate is less than 200 MCF/D the Lower Barker Creek will be plugged and abandoned, if production rate is between 200 MCF/D and 7,000 MCF/D then the Lower Barker Creek will be commingled with the Desert Creek, if production rate is above 7,000 MCF/D then the Lower Barker Creek will be produced without completing the Desert Creek, and if production rate is above 7,000 MCF/D with over 200 BPD of water then the Lower Barker Creek will be plugged and abandoned. Any other gas and/or water production scenarios that are not foreseen at this time, then a decision will be made before proceeding.

7. If well production dictates, RU Tefteller and run bottom-hole pressure bomb. Shut down rig and record 48-hour bottom-hole pressure. A decision will be made at this time to plug and abandon Lower Barker Creek or continue with completion. Plug and abandon procedure will be provided if necessary. Remove bottom-hole pressure bomb, release packer, and TOOH.

******* Desert Creek Zone *******

8. Rig up Basin Perforating. Set drillable cast iron bridge plug rated to 10,000 psi at 9100'. Load hole with 2% KCl and TIH with 2 joints 2 7/8" tubing and packer. Set packer and pressure test plug to 7,000 psi. TOOH with tubing and packer. Perforate Desert Creek from 8904' - 8894' (10'), 8872' - 8,845' (27') (Density log depths) using 4" HEX casing gun with 1 shots per foot, 0 degree phasing, using 22.7 gram 0.4" diameter charges (37 perforations total). Record surface pressure and monitor for flow during perforating. Anticipate H2S.

9. RIH with 5 1/2" Baker Model "R" Retrievmatic packer and 2 7/8" tubing. Set packer at 8,700'. Pressure test backside to 2,000 psi and hold 2000 psi on annulus. Monitor annulus pressure during breakdown. Rig up Halliburton to breakdown perforations. Breakdown perforations with 4,000 gal 2% KCl, 60 1.3 SG RCN balls. Flush with 2,200 gal 2% KCl. Maximum treating pressure 7,000 psi. Rig down Halliburton. Flow well back until dead. Monitor rate and pressure until stable. Kill well with 2% KCl, if necessary. TIH and knock balls off perforations. POOH with tubing and packer.

10. RIH with 5 1/2" packer and 2 joints of tubing. Rig up Halliburton to stimulate well. Acid Frac well with 49,000 gal 30# Purgel cross linked gel and 45,000 gal 15% VCA Acid down casing. Max. pressure 7,000 psi (5.5" L-80 17# Burst Pressure is 7,740 psi).

Stage Name	Pump Rate (BPM)	Fluid Name	Stage Fluid Volume (gal)	Gel Conc. (lb./mgal)	Proppant type	Proppant Conc. (PPG)
Acid	35	15% HCl FE	4000	0	None	0
Pad	35	30# Purgel	16000	30	None	0
Acid	35	15% VCA Acid	12000		None	0
Pad	35	30# Purgel	11000	30	None	0
Acid	35	15% VCA Acid	11000		None	0
Pad	35	30# Purgel	11000	30	1.3 SG Balls	23
Acid	35	15% VCA Acid	11000		None	0
Pad	35	30# Purgel	11000	30	None	0
Acid	35	15% VCA Acid	11000		None	0
Flush	35	2 % KCl	5000		None	0
Flush	35	2 % KCl	8700		None	0

11. TOOH with packer and tubing. Kill well with 2% Kcl, if necessary to release packer and TOOH. Flow back well at 1/4 BPM until stable. Increase rate and clean up well until flow ceases. Monitor rates and pressures while testing.

12. Pick up 4 3/4" bit and 2 7/8" L-80 6.5# EUE tubing and drill cast iron drillable plug at 9,100'. Clean out to PBTD (9,450') and kill well with 2 % KCl. POOH with tubing. Do not drill out Lower Barker Creek if it was plugged and abandoned.

***** Well Clean Up *****

13. (Regardless of single Desert Creek completion or Desert Creek - Lower Barker Creek commingle) Pick up expendable check, 1 joint 2 7/8" L-80 6.5# EUE tubing, "F" pro file 2.25" nipple, 2 joints tubing, Baker Model "R" big bore 2 7/8" by 5.5" 17# packer and remainder of tubing to land packer at 8,610'. Tubing TD should be at 8,700' (tubing should be at least 100' above top Desert Creek perforation to allow a spinner survey to be run in the well at a later date). Spot packer fluid (1% by volume (55 gallons) CRW37F in 2% KCl lubricate down backside) on backside and land packer with 18,000 # compression. ND BOPE and NU 5,000 psi tree with 2 2-9/16" master valves, production block, 2 2-1/16" wing valves and one 2-9/16" swab valve. Test tree.

14. Rig up flow line and pump off check. Swab well if it does not flow.

15. Release rig and turn well over to production.

OD (in)	Weight (lb./ft)	Grade	ID (in)	Burst Pres. (psi)	Collapse Pres. (psi)	Capacity (bbl/1000')	Yield Strength (lb.)
5 1/2	17	L-80	4.892	7,740	6,280	23.2	
2 7/8	6.5	L-80	2.441	10,570	11,160	5.8	144,960
5.5*2.875		L-80	2.875			15.2	

Recommended by

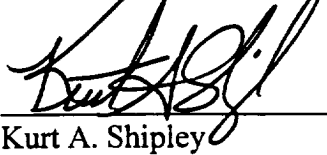
Kurt A. Shipley

325-9361 (home)

326-9524 (office)

320-2552 (cellular, switches to pager after 4 rings)

NW Basin Asset Team Leader



Kurt A. Shipley

Drilling Superintendent

Drilling Manager

attachments:

Log section

Well bore diagram

Well pertinent data sheet

Stimulation

Halliburton 325-3575

Perforating

Basin Perforating 327-5244

Pertinent Data Sheet - Ute Mountain Ute #48

Location: Section 31, T-32-N, R-14-W, San Juan County, New Mexico
820' FNL, 1190' FWL

Latitude: 36 degrees, 57.3 minutes **Longitude:** 108 degrees, 21.2 minutes

Field: Barker Creek Paradox **Elevation:** 6849' GL **TD:** 9,450'
6863' KB **PBTD:** 9,365'

Spud: 11/3/97

Status: Waiting for completion

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12-1/4"	8-5/8"	24.00#, K-55	1518'	738 sx	Surface
7-7/8"	5-1/2"	17.00#, L-80	9450'	2016 sx	Surface

Stage tool at 7525'

Tubing Record: None

Formation Tops:

Hermosa	7677'
Ismay	8717'
Desert Creek	8842'
Akah	9015'
Upper Barker Creek	9184'
Lower Barker Creek	9306'

Logging Record: Microlog, Array Induction, Neutron Density, Density Porosity,
Gamma Ray, Caliper, SP, PE

Stimulation: None

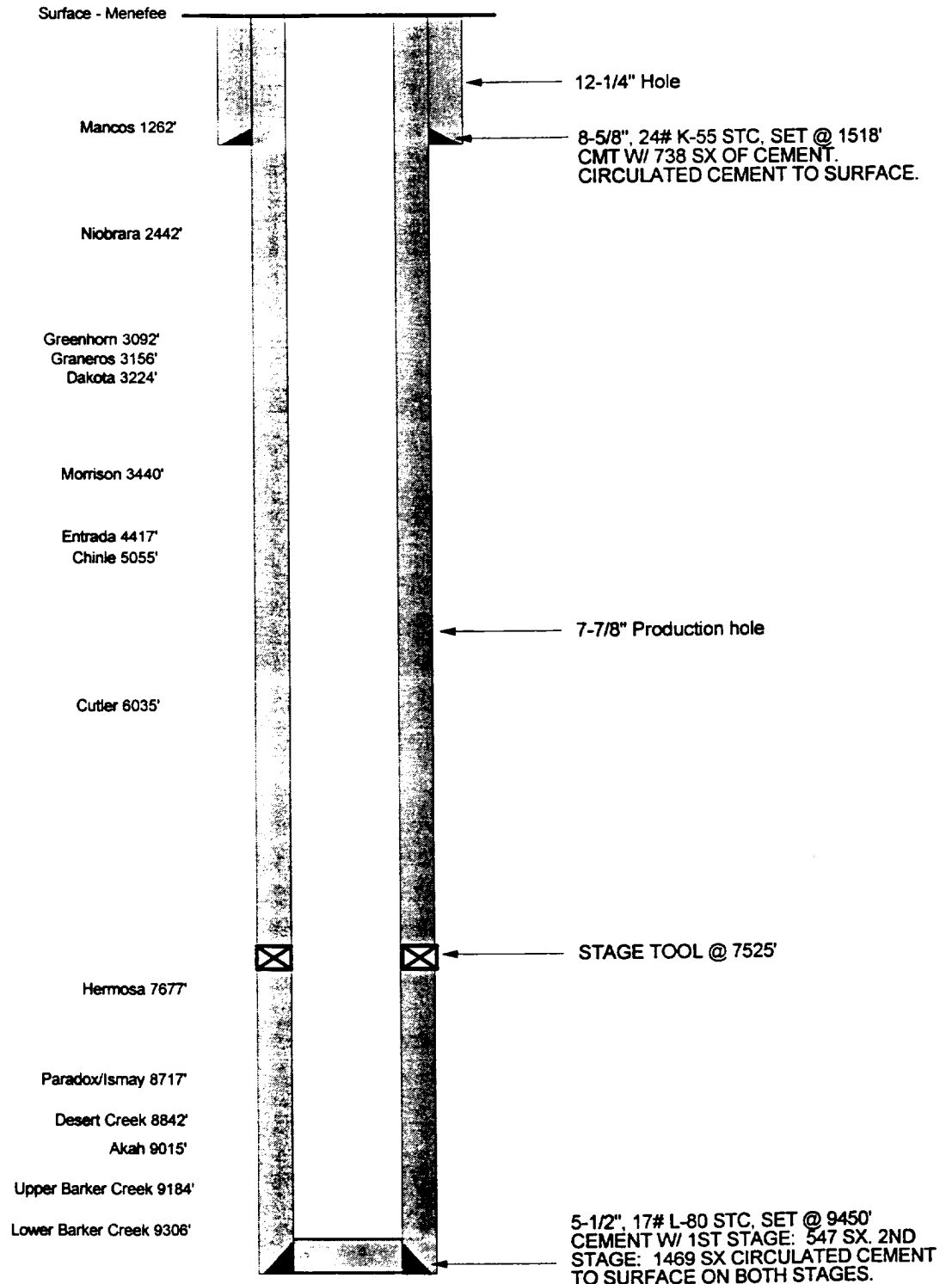
Ute Mountain Ute #48

Current Schematic

820' FNL - 1190' FWL
Sec 31, T32N-R14W
San Juan County, NM

ELEVATION: 6849' GL, 6863' KB

Barker Dome



PBTD @ 9365'
Total Depth 9450'

LOWER
BARKER
CREEK
SC 9300

9306'

9313'

9329'

9343'

HCAL
GR

FR GR

SC 9400

-TD-

PEFZ

FR LDT

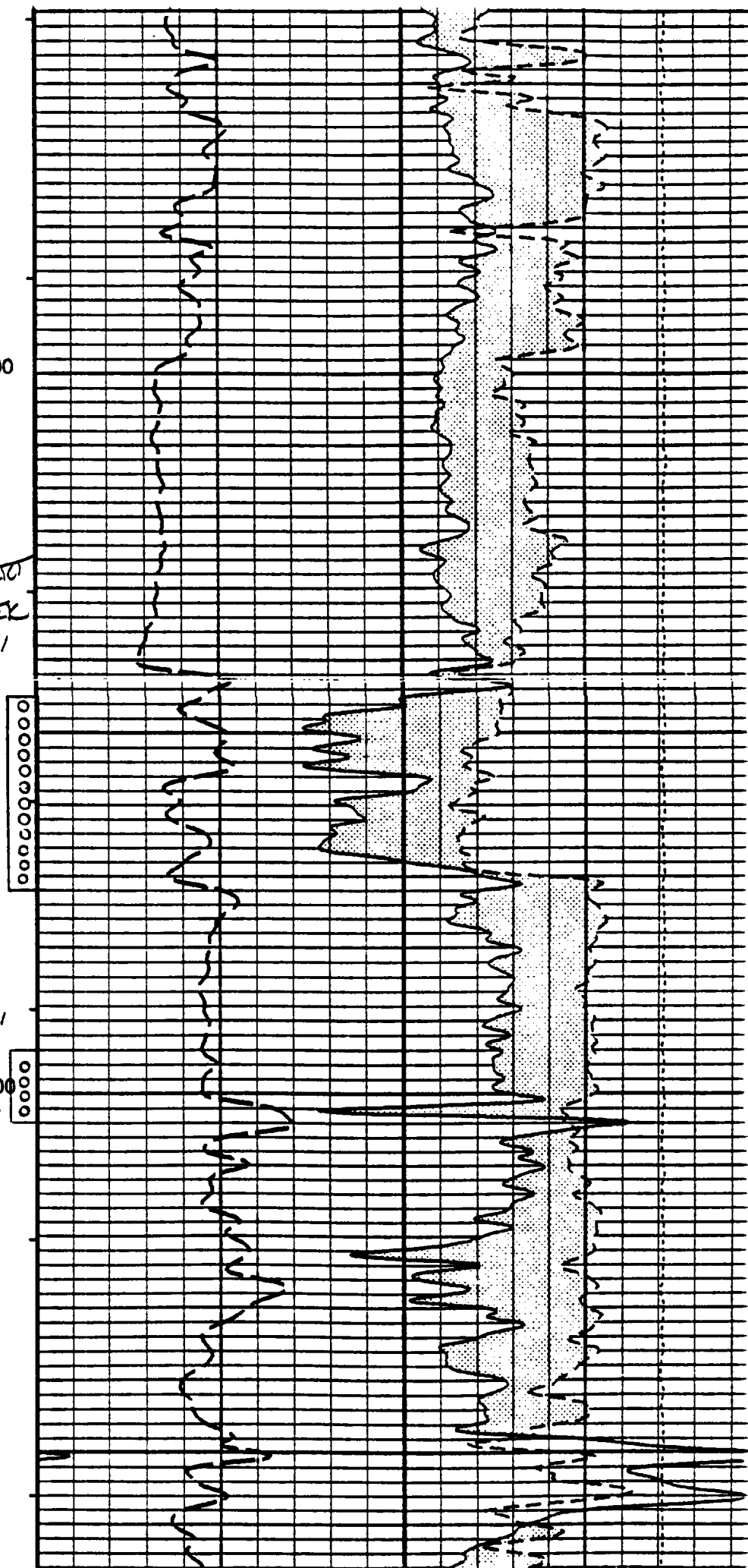
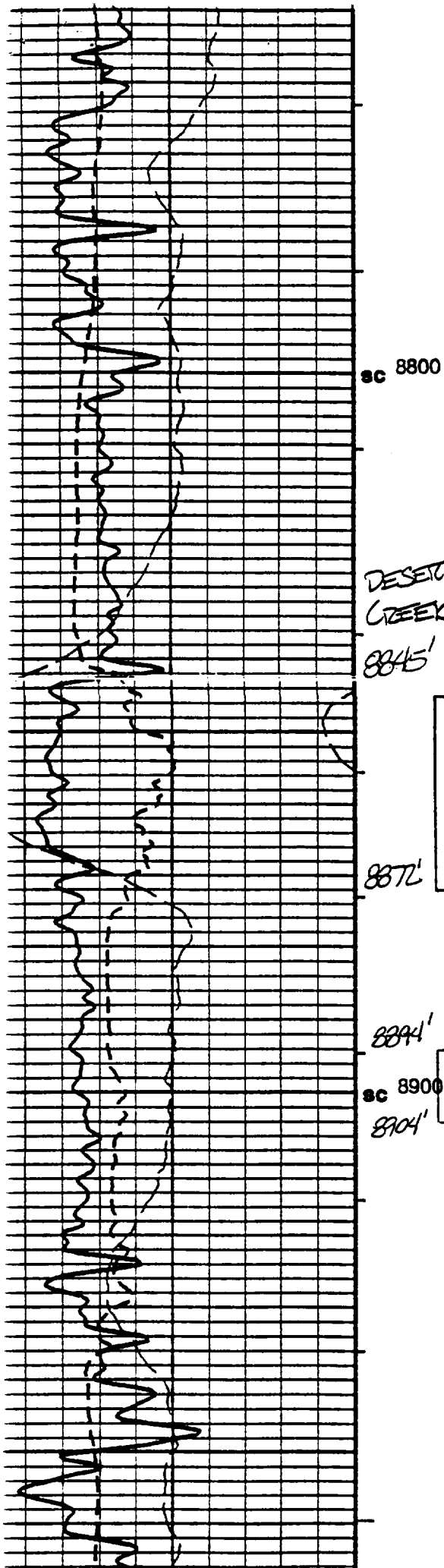
DPHZ

NPOR

TENS

FRONT

DOLOMITE MATRIX = 2.84 G/CC



Burlington Resources Oil and Gas Company
Lease Number: 751-95-0008
Well: Ute Mountain Ute #48
Location: Sec. 31, T.32N.,R.14W.
San Juan County, New Mexico

3160

CONDITIONS OF APPROVAL

1. Inform this office immediately upon obtaining Lower Barker Creek test results. If the decision is made to produce the Lower Barker Creek, proceed with the bottom-hole pressure bomb survey. Do not commence commingling with the Desert Creek without BLM approval. Approval can be verbal. If abandonment of the Lower Barker Creek is necessary, place a minimum of 100' cement plug across the formation top from 9356' to 9256'. A bridge plug and cement combinations are also authorized across this interval.
2. Run bottom-hole pressure bomb survey or record the shut in pressure for the Desert Creek zone prior to drilling out the CIBP.
3. Provide all test results and well completion report information within 30 days of completing testing and well completion operations.