

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

MERIDIAN OIL

3. Address & Phone No. of Operator

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

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

660' FNL, 1980' FEL, Sec. 29, T-32-N, R-14-W, NMPM

5. Lease Number

I-22-IND-2772

6. If Indian, All. or

Tribe Name

Ute Mountain Ute

7. Unit Agreement Name

8. Well Name & Number

Ute #13

9. API Well No.

30-045-11279

10. Field and Pool

Barker Dome ~~Desert~~ Creek

Barker ~~Creek~~ Paradox

11. County and State

San Juan Co, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☒ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Final Abandonment

☒ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☐ Other -

13. Describe Proposed or Completed Operations

It is intended to recompleate the subject well according to the attached procedure and wellbore diagram.

RECEIVED

SEP 25 1995

Bureau of Land Management
Durango, Colorado

RECEIVED
SEP 28 1995

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (KKK10) Title Regulatory Administrator Date 9/22/95

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Area Manager Date 9-26-95

CONDITION OF APPROVAL, if any:

Acting

NMOC

Hold c

Hold c - 104 For use

(B)

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Hold c-104
for NSL

Form C-1
Revised February 21, 1995
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-11279	Pool Code 96352/71560	Pool Name Barker Dome-Paradox Barker Dome-Akah/Upper Barker Creek-
Property Code 7618	Property Name Ute	Well Number 13
OGRID No. 14538	Operator Name Meridian Oil Inc.	Elevation 6150'

10 Surface Location

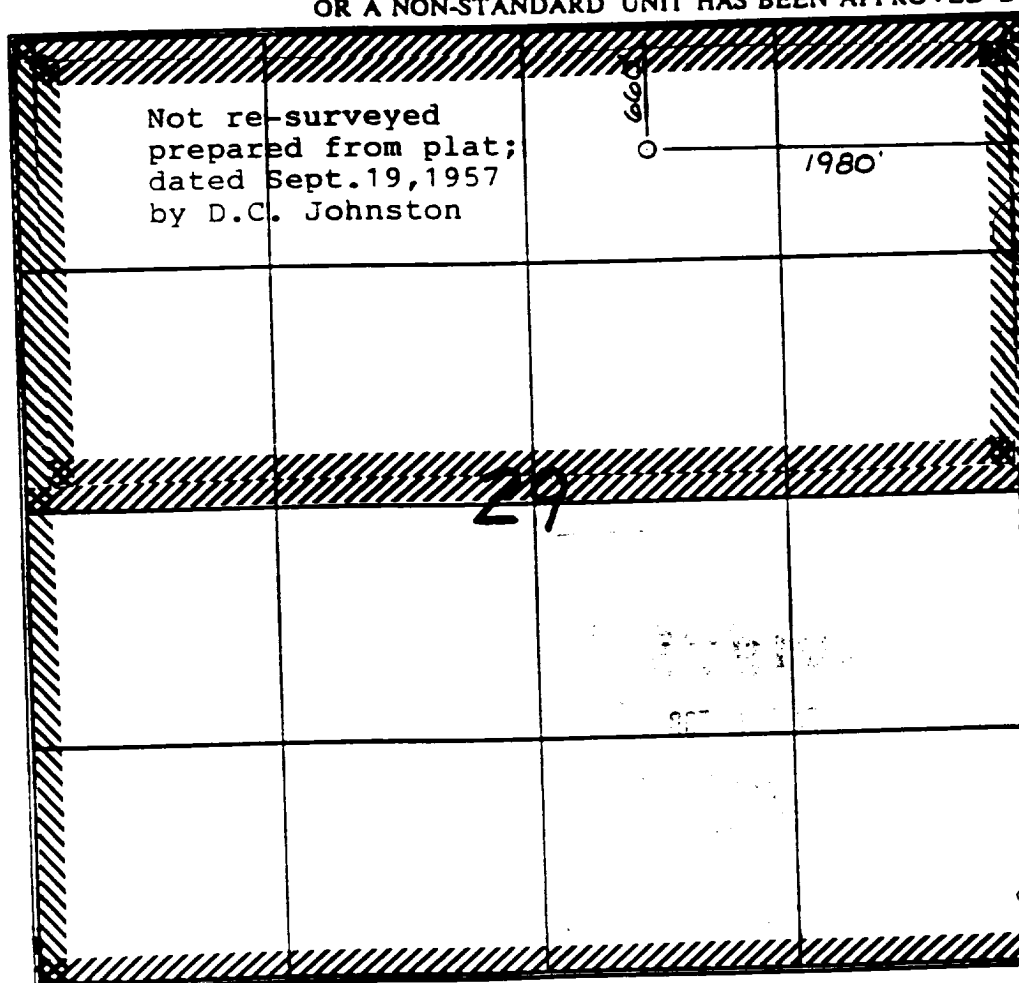
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
B	29	32 N	14 W		660	North	1980	East	S.J.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres N/320-640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
10-11-95
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

9-26-95

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

MERIDIAN OIL INC.
FOUR CORNERS PLATFORM TEAM

UTE # 13

SEC. 29, T32N, R14W
Lat: 36-58-03 Long: 108-21-15
San Juan County, N.M.

Upper Barker Creek Re-completion
Procedure

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

****REMEMBER.....SAFETY FIRST!****

1. MIRU safety company and completion rig. Install all safety equipment and conduct safety meeting to discuss potential hazards and project procedure. Set 500 bbl frac tank for packer fluid (2% by volume CRW27F -- water-soluble corrosion inhibitor and biocide -- in 2% filtered KCl water). NOTE: Expect approximately 0.5% H₂S.
2. Record tubing and casing pressures. Blow well down to pit with flare. Load backside with 2% KCl water. Kill well (existing perforations at 8396' - 8460') using 2% KCl water. ND WH. NU BOP. Rig up relief lines and bleed line. Test BOP equipment to 5000 psi and record results.
3. RU wireline with 5000 psi full lubricator and RIH with 2-7/8" gauge ring. "F" nipple at 8313'. POOH with gauge ring. PU, RIH, and set blanking plug for 2.25" Baker "F" nipple at 8313'. RD wireline company. Pressure test tubing to 3000 psi and backside to 1500 psi. Unseat packer, TOOH, and LD 273 jts 6.5# J-55 2-7/8" tbg, 2.25" Baker "F" nipple, 1 jt 6.5# J-55 2-7/8" tbg, and 7" x 2-7/8" Guiberson UNI-VI pkr. Keep hole full while tripping out of hole. Remove blanking plug. Inspect tubing for signs of corrosion.
4. RU wireline company with 5000 psi full lubricator and run CBL/CCL/GR tool for 7" casing from PBTD to top of cement under 1000 psi pressure. POOH with CBL tool. RD wireline company and full lubricator. **Initiate squeeze operations as necessary if cement bonding is insufficient above or below the Upper Barker Creek, or if the casing fails pressure test.
5. PU 7" 24# Baker Model K-1 cement retainer and 6.5# L-80 2-7/8" tubing. RIH and set cement retainer @ 8366'. Sting into retainer and record injection rates and pressures. Pull out of retainer. RU cement company and mix 325 sacks of class "G" premium cement with 0.3% CFR-3 (dispersant), and 0.3% HALAD[®]-344 (fluid loss). Mix with fresh water. Spot cement in tubing. Sting back into retainer and squeeze perms from 8396' - 8460' using 47 bbls of displacement water (tubing capacity ≈ 48 bbl). Pull out of retainer 1' and dump remaining cement on top of cement retainer. PU tubing 29' and reverse out cement. RD cement company. Test cement plug to 5000 psi. Record results. TOOH with stinger to 4000'. Unload hole at that depth with N₂. TOOH.
6. RU perforating company with 5000 psi full lubricator and RIH with 10' of 4" HEGS casing gun loaded 4 spf with 23 gram DP 41B Hyperjet charges (Entrance hole - 0.45 in, Berea penetration - 19.49 in). Correlate and get on depth. Shoot **Upper Barker Creek** 1500 psi underbalanced from **8308' - 8318'** (96 holes). Watch surface pressure for increase after

- perforating. TOOH with casing gun. RD wireline company and full lubricator. Open flowline to pit and watch for flow. Monitor gas for H₂S. Kill well with 2% KCl.
7. RIH with 7" x 2-7/8" 24# Baker Model R-3 Double-grip packer and L-80 6.5# 2-7/8" tubing to 8250'. Set packer in 20 pts compression. Load backside with 2% KCl and pressure to 1500 psi.
 8. RU stimulation company. Pressure test all lines and equipment to 7000 psi. Ball-off and breakdown Upper Barker Creek perfs using the following procedure:
 - Begin pumping 2% KCl water.
 - Once stimulation company catches pressure, start pumping 40 bbls of 2% KCl water at 15 BPM to breakdown formation.
 - Drop a 10 ball slug of RCN 1.3 SG balls when stimulation company catches pressure. Pump 10 bbls of 2% KCl water. Then drop one ball every 1/2 bbl for 35 bbls (70 balls).
 - If well balls-out, shut down pumps and open surface valve to surge balls off perfs. Repeat as necessary. If surging fails to remove balls from perfs, TIH with packer and knock balls off perfs.
 9. RU stimulation company to breakdown Upper Barker Creek with 20% inhibited HCl containing 10 gal/Mgal FE-1A (iron sequestering agent), 50 lbs/Mgal FE-2 (iron sequestering agent), 20 gal/Mgal SCA-130 (anti-sulfide cracking scavenger), 8 gal/Mgal HAI-81 (corrosion inhibitor), and 2 gal/Mgal SGA-HT (friction reducer). Pump 2500 gal 20% acid at maximum rate without exceeding 7000 psi maximum pressure. Flush with 60 bbls 2% KCl water. Shut down and record ISIP and SIP after 5, 10, and 15 minutes. RD stimulation company.
 10. RU lubricator and swab line and swab well in. When well kicks-off, flow well and monitor production. Monitor gas closely for H₂S. Record time, pressure, and rates until well cleans up and stabilizes. As soon as rates and pressures stabilize, obtain gas and fluid (if applicable) sample and kill well with 2% KCl water. Straight pull packer to unseat and TOOH. Keep hole full while tripping out. Evaluate well performance for additional fracture stimulation. If well potential is good, continue as planned with fracture stimulation. If not, consult production engineering for squeeze job design.
 11. RU treesaver. RU stimulation company. Test all surface lines and equipment to 6000 psi. Fracture stimulate down 24# 7" casing using the following schedule:

Stage	Fluid	Concentration	Proppant	Rate
1—Pad	17,500 gal 35# BoraGel			40 BPM
2—SLF	8,000 gal 30# BoraGel	1.0 ppg	20/40 Tempered DC [®] (8,000#)	40 BPM
3—SLF	8,000 gal 30# BoraGel	2.0 ppg	20/40 Tempered DC [®] (16,000#)	
3—SLF	10,000 gal 30# BoraGel	3.0 ppg	20/40 Tempered DC [®] (30,000#)	40 BPM
4—SLF	11,500 gal 30# BoraGel	4.0 ppg	20/40 Tempered DC [®] (46,000#)	40 BPM
5—Flush	13,500 gal 2% KCl			40 BPM

**SLF.....Sand-laden fluid

NOTE: Anticipated surface treating pressure is 3800 psi @ 60 BPM.

Maximum treating pressure is 6000 psi.

12. RD stimulation company. RD treesaver. Leave well shut-in for 2-3 hours to allow gel to break. Stage in hole with notched collar and blow well down using nitrogen. Flow back sand

and gel until well cleans up. Note any unusual returns to pit. Gauge well when pressure and rates stabilize. Kill well with 2% KCl. TOOH with notched collar. PU and TIH with expendable check, 1 jt 6.5# L-80 2-7/8" tubing, 2-7/8" x 2.25" "F"-nipple, 1 jt 6.5# L-80 2-7/8" tubing, 5-1/2" x 2-7/8" Baker Model R-3 Double-grip packer, 1 jt 6.5# L-80 2-7/8" tubing, 2-7/8" pup joint, and 6.5# L-80 2-7/8" tubing to surface. Circulate packer fluid on backside. Set packer at 8150' in 20 pts compression. ND BOP. NUWH. Pump off expendable check.

13. RU lubricator and swab line and swab well in. When well kicks-off, flow well and monitor production. Monitor gas closely for H₂S. Record time, pressure, and rates until well cleans up and stabilizes. As soon as rates and pressures stabilize, obtain fluid and gas samples, record final gauge, and shut in well. RD completion rig and move off. RU flowback crew (if deemed necessary) and flow well back until clean.

Contacts:

Safety	Standby Safety	(907) 565-6391
Wireline	Schlumberger	(505) 325-5006
Stimulation	Halliburton	(505) 325-3575
Isolation tool	WSI	(505) 327-4032
Pkrs-BP-CRT	Baker	(505) 325-0216
Koby Killion	Office	(505) 599-4041
	Home	(505) 325-6579
Chip Lane	Office	(505) 326-9740
	Home	(505) 327-0075

kkk

Approved by:

NW Basin Asset Team Leader

Drilling Superintendent

Pertinent Data Sheet - Ute #13

Location: Section 29, T32N, R14W, San Juan County, New Mexico
660' N, 1980' E Lat: 36.96465 Long: 108.32913

Field: Barker Creek Paradox

Elevation: 6150' GL

TD: 8830'

PBTD: 8711'

Spud: 10-4-45

Status: Temporarily abandoned pending recompletion to the Upper Barker Creek formation.

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
17-1/4"	13-3/8"		420'	285 sx	Surface
12-1/4"	9-5/8"	40#	2740'	300 sx	160' (Calc)
8-3/4"	7"	24#	8830'	500 sx	4905' (Calc)

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Pkr.</u>	<u>Depth Set</u>
2 7/8"	6.5# J-55	8353'	Guib. Uni-VI	8347'

Formation Tops:

Dakota	2278'	Ismay	7773'
Morrison	2530'	Desert Creek	7950'
Entrada	3518'	Akah	8097'
Chinle	4055'	Barker Creek	8240'
Shinarump	4070'	Alkali Gulch	8479'
Cutler	5075'	Molas	8764'
Hermosa	6682'		

Logging Record: None

Stimulation: 2/46 – Perforated 8396' - 8460' (183 shots), acidized w/4000 gal. xx and 6000 gal. x acid.

Workover History: 2/89 – CO to 8711'. Ran TDT-P log from 8715' - 6550' and 4900' - 4650'. Ran GR, CCL from 8711' to surf. Ran NGT-D from 8682' - 6940'. Pressure tested casing to 2000#, held OK. RIH w/ 7" x 2-7/8" Guiberson UNI-VI pkr, 1 jt 2-7/8" tbg, 2.25" Baker "F" nipple, and 273 jts 2 -7/8" tbg landed at 8353'. Packer at 8347'. F-nipple at 8313'.
5/92 – Ran mechanical integrity test, OK.

UTE #13

Barker Creek Paradox
UNIT B, SEC 29, T32N, R14W, SAN JUAN COUNTY, NM
660' FNL & 1980' FEL Lat: 36.96465 Long: 108.32913
AS OF 9/21/95

SPUD 6/25/44

13-3/8" CSG SET @ 420'
CIRC. 285 SX CMT TO SURF

DAKOTA @ 2278'

TOP OF CEMENT @ 1609'

9-5/8" 40# CSG SET @ 2740'
CIRC 300 SX CMT

ENTRADA @ 3518'

CUTLER @ 5075'

TOP OF CEMENT @ 4905'

HERMOSA @ 6682'

ISMAY @ 7773'

DESERT CREEK @ 7950'

BARKER CREEK @ 8240'

2-7/8" 6.5# J-55 TBG SET @ 8353'
F-NIPPLE @ 8313'
GUIBERSON UNI-VI PKR @ 8347'

PERFS @ 8396' - 8460'

ALKALI GULCH @ 8479'

FILL @
8711'

7" 24# CSG SET @ 8830'
CIRC 500 SX CMT

TD 8830'

HORNBECK

Final Print

Schlumberger

THERMAL DECAY TIME LOG

CSU

Field Log

COMPANY: MERIDIAN OIL INC.

WELL: UTE #13

FIELD: BARKER CREEK - PARADOX

COUNTY: SAN JUAN

STATE: NEW MEXICO

NATION: USA

LOCATION: 660' FNL & 1980' FEL

SEC: 29

TWP: 32N

RGE: 14W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 6150.0 F

ELEVATIONS-
KB: 6160.0 F

LOG MEASURED FROM: KB
10.0 F ABOVE PERM. DATUM

DF:
GL: 6150.0 F

DRLG. MEASURED FROM: KB

DATE: 9 FEB 89

RUN NO: ONE

DEPTH-DRILLER: 8711.0 F

DEPTH-LOGGER: 8715.0 F

BTM. LOG INTERVAL: 8708.0 F

TOP LOG INTERVAL: 4620.0 F

CASING-DRILLER: 8830.0 F

CASING-LOGGER:

CASING: 7

WEIGHT: 26.0000 LB/F

BIT SIZE: 8 3/4

DEPTH: 8830.0 F

2

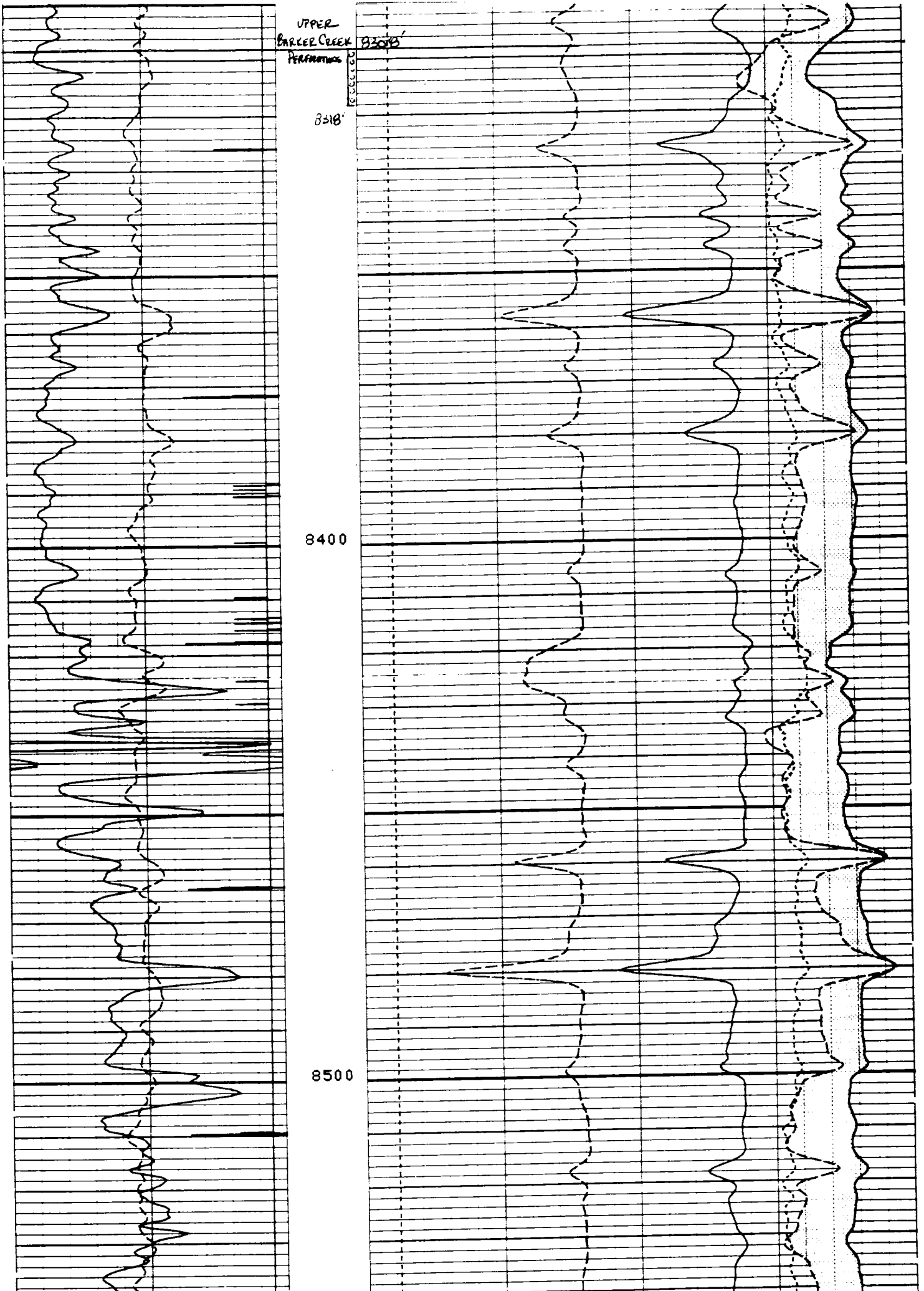
UPPER
BARKER CREEK
PERMANENT

8300

8318

8400

8500



Schlumberger

COMPUTER
PROCESSED
INTERPRETATION

ELAN USING TDT ADVISOR

COMPANY : MERIDIAN OIL INC.

WELL : UTE #13
FIELD : BARKER CREEK - PARADOX
COUNTY : SAN JUAN
STATE/PROVINCE : NEW MEXICO
COUNTRY :
NATION :
CONTINENT :

Field Location :

Latitude :

Longitude :

Date Logged : FEB 9 1989

Run : ONE

DEPTH REFERENCES :

Permanent Datum : GROUND LEVEL

Elevation : 6150.00 FT

ELEVATION :

K.B : 6160.00 FT

Log Measured From : KB

above PD : 10.00 FT

D.F : 0.00 FT

Drilling Measured From : KB

G.L : 6150.00 FT

Date Processed : JULY 13 1995

Reference :

Using the following logs :

DUAL-BURST TDT

Processing Comments :

INTERPRETATION WAS PROCESSED
USING DIGITIZED TDT-P DATA

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

8300

8308

8319

8400

