

submitted in lieu of Form 3160-5

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

1500' FSL, 2270' FWL, Sec. 14, 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 Mountain Ute #51  
9. API Well No.  
30-045-29547  
10. Field and Pool  
WC: (32N14W14K) Hermosa  
Barker Dome Ismay  
Barker Dome Desert Cr  
Barker Dome Akah/Upr Barker Cr  
Barker Dome Paradox  
11. County and State  
San Juan Co, NM

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 - Completion  
☐ 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  
JUN 5 1998  
OIL COAL DIST.  
BUREAU

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

Signed \_\_\_\_\_ (FAS) Title Regulatory Administrator Date 5/27/98  
no

(This space for Federal or State Office use)

APPROVED BY (s) Jim Lovato  
CONDITION OF APPROVAL, if any:

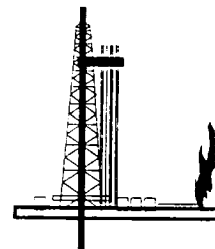
Title

AREA MANAGER  
ACTING

Date JUN 3 1998

WMOCD

May 21, 1998



**Ute Mountain Ute #51**  
**Completion Procedure**

**Sec. 14, T-32-N, R-14-W**  
**Lat. 36-59.1', Long 108-16.8'**  
**San Juan County, New Mexico**

**KB 6,898'**  
**GL 6,884'**

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

## **Objective:**

1. Drillout DV tool @ 7262' RKB and cleanout 5-1/2" Production Casing to the float collar @ 9519' MD. Test Casing to 6,500 psi.
2. Run CBL-GR-CCL log
3. Make scraper run to PBTD and perform wellbore cleanup. Circulate hole clean with filtered 2% KCL completion fluid.
4. Perforate well @ 4 spf with 3-3/8" casing guns in three stages. Acidize, flow well and isolate with a Retrievable Bridge plug with pressure gauges below on each stage as follows:

<u>Stage #</u>	<u>Interval</u>	<u>(FT)</u>	<u>Formation</u>
1	9430' – 9453'	(23')	Lower Alkali Gulch
	9405' – 9423'	(18')	Lower Alkali Gulch
	9370' – 9386'	(16')	Upper Alkali Gulch
	9210' – 9274'	(64')	Lower Barker Creek
	Total Net ft.= 121'		
2	9084' – 9139'	(55')	Upper Barker Creek
	9040' – 9068'	(28')	Upper Barker Creek
	Total Net ft.= 83'		
3	8662' – 8686'	(24')	Lower Ismay
	8598' – 8611'	(13')	Upper Ismay
	Total Net ft.= 37'		

Total Net Perforations = 241'

5. Run 2-7/8" completion.
6. Swab well in and place on production.
7. Report Daily Production to BLM
8. Run Spinner Survey with BLM concurrence upon stabilization
9. Set Allocation based on Spinner Survey results
10. Re-run Spinner Survey in 3 years and re-allocate as required

## Pertinent Data Sheet - Ute Mountain Ute #51

**Location:** Section 14, T-32-N, R-14-W, San Juan County, New Mexico  
1500' FNL, 2270' FWL

**Latitude:** 36 degrees, 59.1 minutes      **Longitude:** 108 degrees, 16.8 minutes

**Field:** Barker Creek Paradox      **Elevation:** 6884' GL      **TD:** 9602'  
Upper Barker Creek      6898' KB      **PBTD:** 9519'  
Ismay

**Spud:** 4/28/98

**Status:** Waiting for completion

### **Casing Record:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12-1/4"	8-5/8"	24.00#, K-55	1436'	650 sx	Surface
7-7/8"	5-1/2"	17.00#, L-80	9602'	2795 sx	Surface

Stage tool at 7262'

OD (in)	Weight (lb./ft)	Grade	ID (in)	Drift (in)	Burst Pres. (psi)	Collapse Pres. (psi)	Capacity (bbl/1000')	Yield Strength (lb.)
5 1/2	17	L-80	4.892	4.767	7,740	6,280	23.2	
2 7/8	6.5	L-80	2.441	2.347	10,570	11,160	5.8	144,960
5.5*2.875							15.2	

### **Formation Tops:**

Geenhorn	3001'	DeChelly	5523'
Graneros	3050'	Cutler	5787'
Dakota	3118'	Hermosa	7419'
Morrison	3329'	Upper Ismay	8560'
Junction Creek	3898'	Lower Ismay	8650'
Summerville	4208'	Desert Creek	8749'
Todilto	4295'	Akah	8894'
Entrada	4303'	U. Barker Creek	9058'
Carmel	4439'	L. Barker Creek	9192'
Wingate	4472'	U. Alkali Gulch	9298'
Chinle	4905'	L. Alkali Gulch	9405'
Shinarump	5473'	Pinkerton Trail	9503'

**Logging Record:** Platform Express, AIT

## **Procedure**

1. Move in and rig up Drake #28 rig. Rig up safety equipment (H2S Safety engineer should be on location during all operations). Rig up flow lines to pit and flare line. Stake down all flow lines. Test BOP's to 5000 psi. Well could produce as much as 10mmcf/day with significant amounts of H2S (20,000 ppm). Refer to attached H2S Contingency Plan.

**Note:** Notify BLM & Ute Mountain Tribe prior to starting operations.

All vendors vehicles must have current Ute Permit displayed

2. 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 7262' and clean out casing to float collar @ 9519' (66' of rathole bottom perf @ 9453'). Pump 40 bbl High Visc (polymer) sweep and circulate hole clean. POOH.
3. PU 5-1/2" RTTS packer to isolate wellhead and RIH to 60'. Test casing to 6,500 psi. (Casing Burst = 7,740 psi) POOH.
4. Rig up Basin Perforators with pack-off to run CBL. Run CBL/CCL from PBTD to 7000' with 1,000 psi on casing.
5. POOH and pick up 5-1/2" casing scraper and clean out to PBTD. Work scraper across packer setting depths. Pump 40 bbl high visc (polymer) sweep and circulate hole clean. Pickle the wellbore tubulars by pumping the following at +/- 5 BPM:

200 Gallons Xylene

2,000 Gallons 15% FE Acid with following additives

15% HCL Acid

10 gal/M FE-1A (Acetic Acid)

10 gal/M FE-2A (Citric)

3 gal/M HAI-85M (Inhibitor)

2 gal/M Lo Surf 300 (Non-ionic Surfactant)

Pump Xylene and Acid down tubing and follow with a 30 bbl high visc polymer pill. Displace all acid out the annulus and monitor returns for acid return strength. Once acid is out of annulus, increase rate to maximum rate and circulate with water until returns are clean. Displace hole with clean filtered (<5 micron) 2% KCL water. POOH.

**Note:** See attached MSDS sheet for Xylene. Need to have flowback tank to recover Xylene from wellbore.

5. RU Basin Perforating. RIH and perforate the following zones with 3-1/2" Casing Guns @ 4 spf, 60 Deg Phasing:

**Lower Alkali Gulch:** 9430' – 9453' (23')  
9405' – 9423' (18')  
**Upper Alkali Gulch:** 9370' – 9386' (16')  
**Lower Barker Creek:** 9210' – 9274' (64')  
(121')

6. RIH with 2-7/8" tubing and RTTS packer. Set packer @ 9180' (30' above top perf).  
7. Pump 3500 gallons of SWIC II acid at maximum rate and displace with filtered 2% KCL water.

Acid to contain: 15% HCL Acid  
3 gal/M FE-5A (Iron Reducing Agent)  
2 lbs/M HII-124C (Intensifier for Fe-5A)  
20 gal/M SCA-130 (Sulfide Scavenger)  
5 gal/M HAI-85M (Inhibitor)  
2 gal/M LoSurf 300 (Non-Ionic Surfactant)

8. Flow well back to pit and establish steady rate. Establish rate with well choked to provide +/- 300 psi back pressure to simulate pipeline conditions.

9. Release RTTS. Ensure well is dead and POOH with tubing.

10. RIH with wireline retrievable BP with pressure gauges below. Set BP @ 9200' (10' above top perforation.

**Note:** If lower zone proves to be wet, RIH with mechanical set retainer on tubing and squeeze lower set of perfs. Cement plan to follow if required.

11. RIH and perforate the following zones with 3-3/8" casing guns @ 4 spf, 60 deg phasing:

**Upper Barker Creek** 9084' – 9139' (55')  
9040' – 9068' (28')  
(83')

12. RIH with 2-7/8" tubing and RTTS packer. Set packer @ 9010' (30' above top perf).  
13. Pump 2500 gallons of SWIC II acid at maximum rate and displace with filtered 2% KCL water as above.

14. Flow well back and establish steady rate. Establish rate with well choked to provide +/- 300 psi back pressure to simulate pipeline conditions.

15. Release RTTS. Ensure well is dead and POOH with tubing.

16. RU Basin Perforators and RIH with Baker 5-1/2" Wireline Set Retrievable BP with pressure gauges hung below. Set BP @ 9030' (10' above top perforation).

17. RIH and perforate the following zones with 3-3/8" casing guns @ 1 spf and zero Deg Phasing:

<b>Lower Ismay</b>	8662' – 8686' (24')
<b>Upper Ismay</b>	<u>8598' – 8611' (13')</u>
	(37')

18. PU 5-1/2" packer and two joints of 2-7/8" tbg and rih to 60'. Set packer to isolate wellhead during acid frac.

19. Acid frac down 5-1/2" casing with Acid/Water stages totaling 20,000 gallons of 15% HCL and 20,000 gal water at maximum rate and displace with filtered 2% KCL water.

20. RIH with 2-7/8" tubing and RTTS and set packer @8568'(30' above top perf).

21. Flow well back and establish steady rate. Establish rate with well choked to provide +/- 300 psi back pressure to simulate pipeline conditions.

22. Release RTTS. Ensure well is dead and POOH with tubing.

23. RU Slickline and RIH with pressure gauge. Shut-in well overnight and record reservoir pressure across the perforations. POOH and RD slickline.

24. RIH and retrieve BP @ 9030'. POOH and download pressure data.

25. RIH and retrieve BP @ 9200'. POOH and download pressure data.

26. Pick up expendable check, 1 joint 2 7/8" L-80 6.5# EUE tubing, "F" profile 2.25" nipple, 3 joints tubing, Baker Model "R" big bore 2 7/8" by 5.5" 17# packer and remainder of tubing to land packer at +/-8328'. Tubing TD should be at 8448' (tubing should be +/- 150' above top perforation). Spot packer fluid (1% by volume (55 gallons) CRW37F in 2% KCl lubricate down backside (5316 gal annular capacity)) on backside and land packer with 18,000# compression. ND BOPE and NU 5,000 psi tree with 2 x 2-9/16" master valves, production block, 2 x 2-1/16" wing

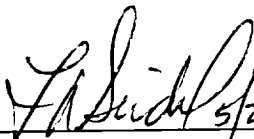
valves and one 2-9/16" swab valve. Test tree to 5000 psi.

27. Release rig to production.

**Note:** Report Daily Production to BLM  
Run Spinner Survey with BLM concurrence upon stabilization  
Set Allocation based on Spinner Survey results  
Re-run Spinner Survey in 3 years and re-allocate as required

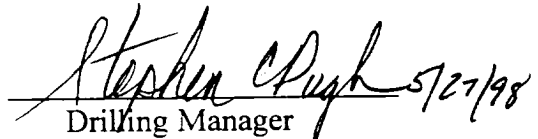
Recommended by

John P. Hosford      327-7358 (home)  
                                 599-4008 (office)  
                                 564-1703 (pager)  
                                 320-2569 (cellular)

  
F. A. Smith 5/26/98 for GPZ ~~Smith~~  
NW Basin Asset Team Leader

  
P. B. Smith 5/26/98  
Drilling Superintendent

  
John P. Hosford 5/26/98  
Sr. Drlg. Engr.

  
Stephen C. Pugh 5/27/98  
Drilling Manager

Attachments: Pertinent Data Sheet  
Wellbore Sketch  
H2S Contingency Plan  
Vendor List  
Logs

CC: Halliburton  
Basin Perforating  
Teftteller  
Baker Oil Tools  
Drake Well Services



**Well Name:**

**Ute Mountain Ute #51**

**Field:**

**Barker Dome**

**Location:**

**Section 14, T-32-N, R-14-W**

**Budget Year:**

**1998**

**Rig:**

**Big A Well Service #54**

**GL:**

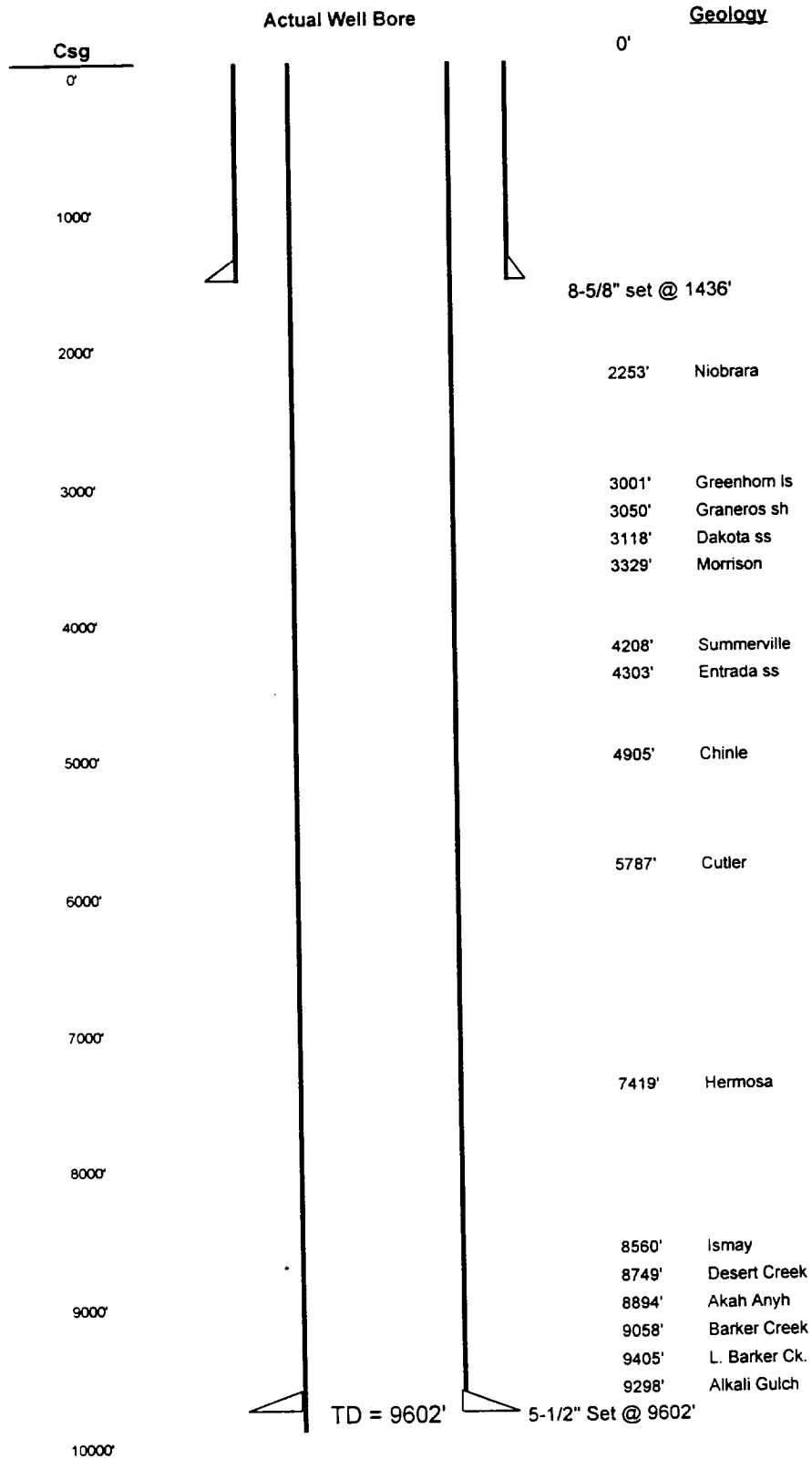
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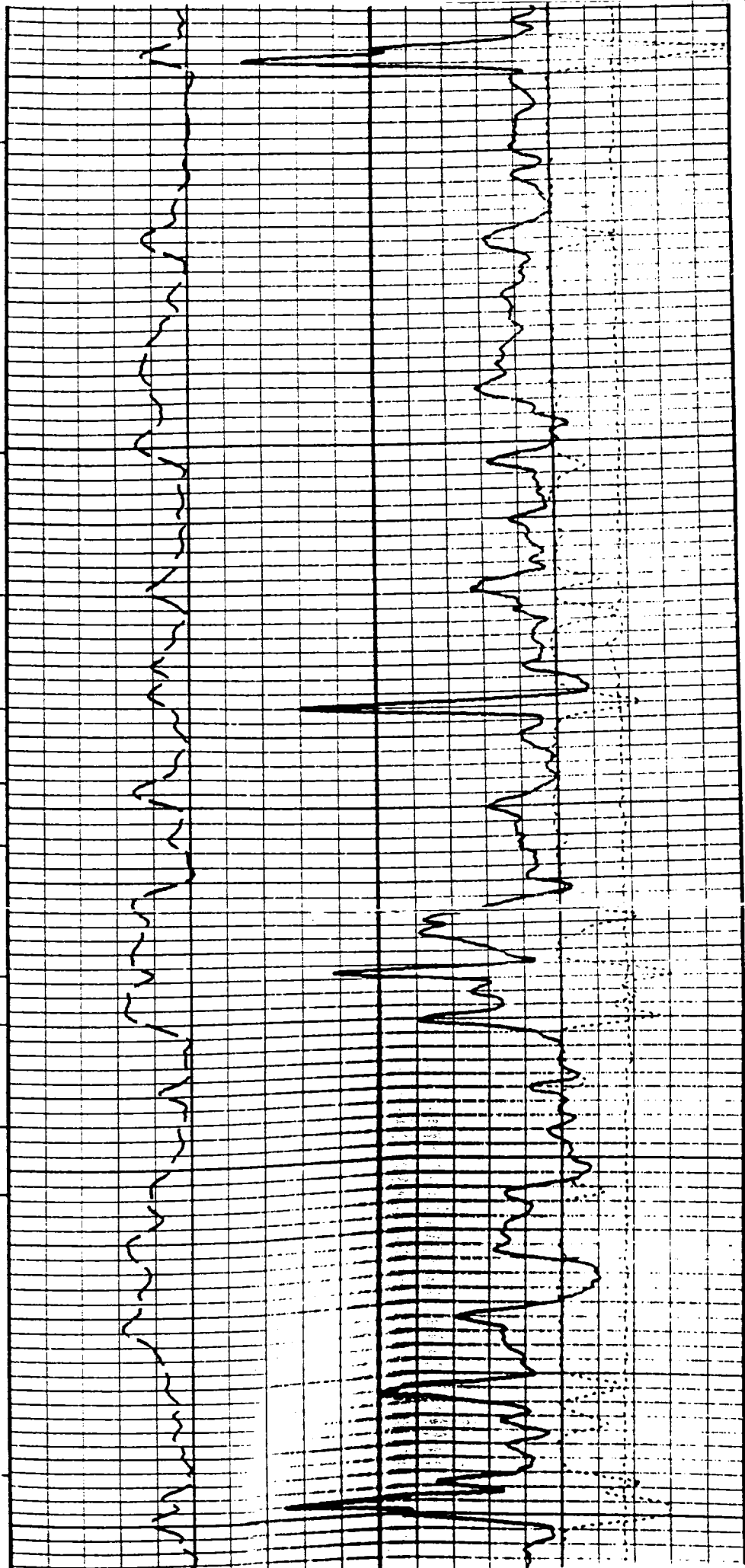
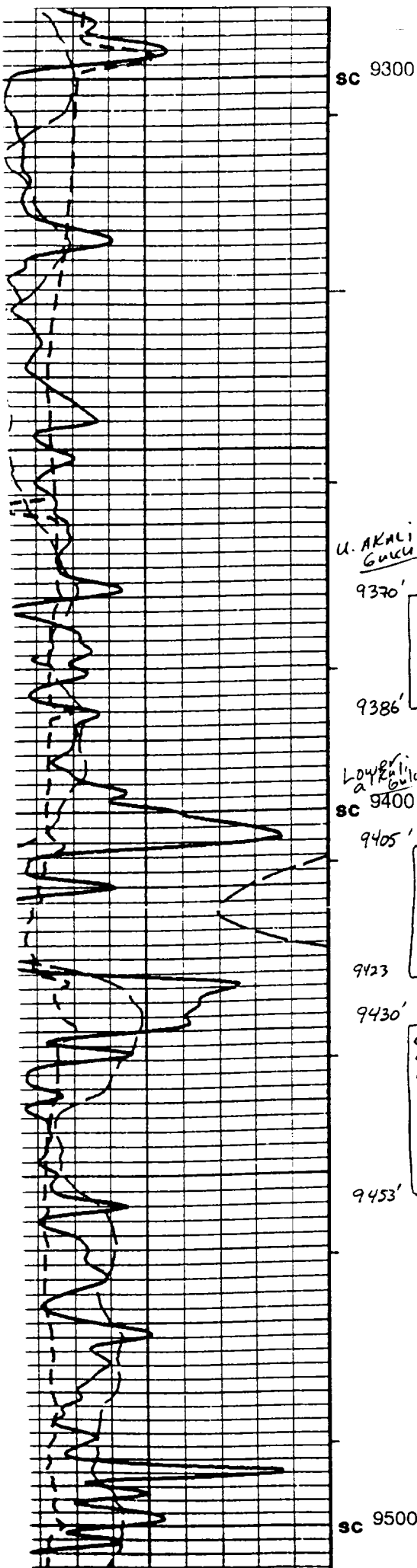
**KB:**

**6898**

**Latitude:** 36 degrees, 59.1 minutes

**Longitude:** 108 degrees, 16.8 minutes





SC 9200  
L. BARKIN  
CK.

9210'

924'

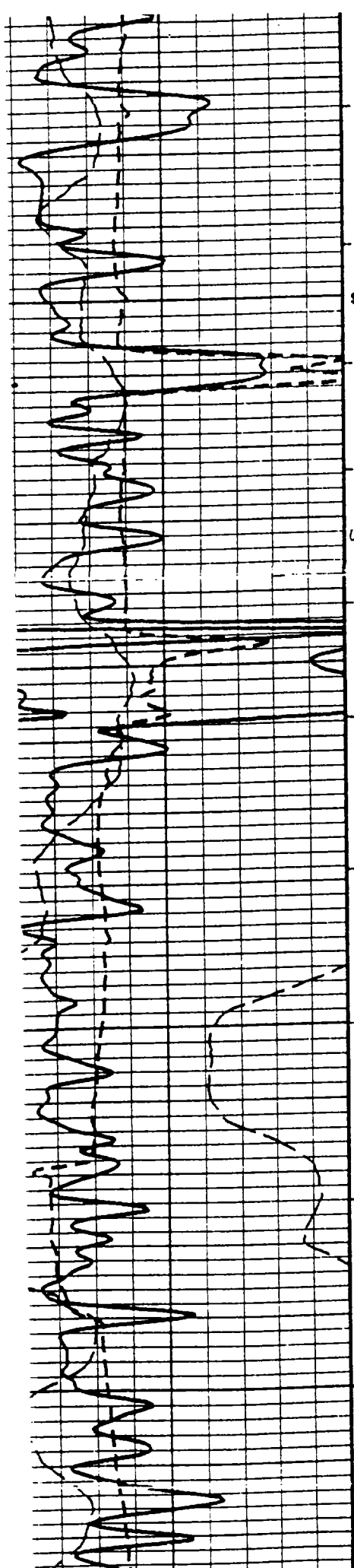
SC 9300

PEEZ

RHOZ

HDRA

TENS



sc 9000

U. BARKEN  
OK

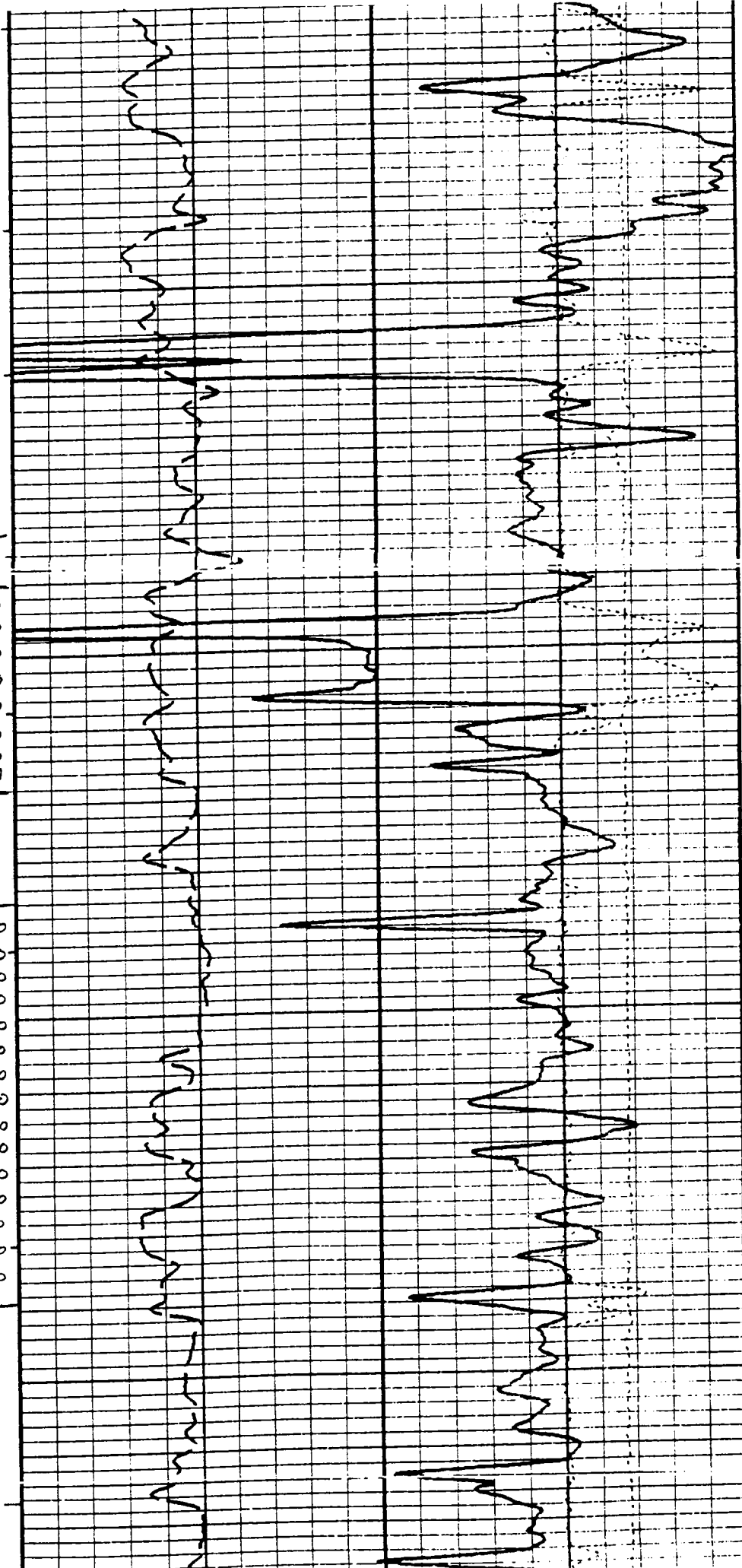
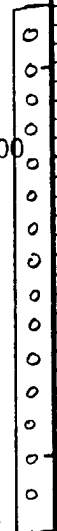
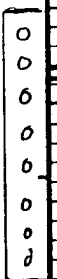
9040'

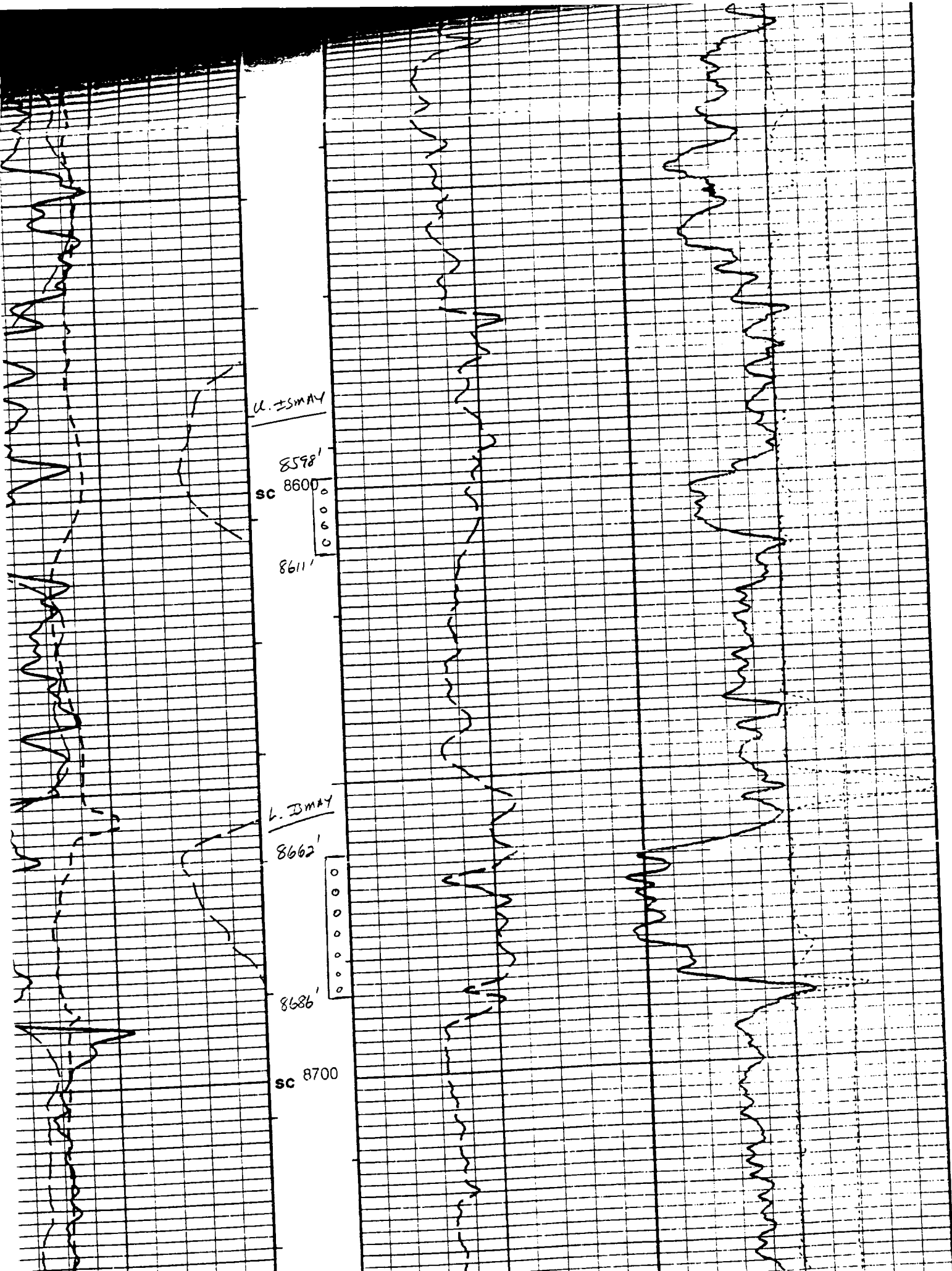
9068'

9284'

sc 9100

9139'





**BURLINGTON RESOURCES OIL AND GAS COMPANY  
PERSONNEL / VENDOR SUMMARY**

**Burlington Resources (Office)**      **Hours**      **(7:00 PM-4:30 PM)**      **(505) 326-9700**

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**Drilling Department**

Rig Supervisor	Darren Randall	mobile	(505) 320-2618
		home	(505) 632-0913
		pager	(505) 324-4285
Drilling Superintendent	P.W. Bent	office	(505) 326-9887
		mobile	(505) 320-1696
		home	(505) 325-3752
Drilling Superintendent	R. desCognets	office	(505) 326-9755
		mobile	(505) 320-8368
		home	(505) 564-3699
Regional Drilling Engineer	F.A. Seidel	office	(505) 599-4019
		mobile	(505) 320-2896
		home	(505) 327-4097
Project Drilling Engineer	J.P. Hosford	office	(505) 599-4008
		pager	(505) 564-1703
		home	(505) 327-7358
Reservoir Engineer	Chip Lane	office	(505) 326-9740

**District Tools**

Anthony Smith	office	(505) 326-9869
	pager	(505) 326-8818

**Regulatory Agency**

BLM Durango		(970) 247-4082
Bo Brown	Home	(505) 334-2545
NMOCD Aztec		(505) 334-6178
Ute Mtn Ute Tribe		(970) 565-3751

**Emergency Services**

San Juan County Sheriff	(505) 334-6107
St Mary's Airline	(800) 525-4224
Air Care -1	911

**Service Contractors**

Rig Contractor	Drake Well Services	(505) 327-7301
Logging/Perforating	Basin Perforating	(505) 327-5244
Stimulation	Halliburton	(505) 325-3575
Wellhead/Tree	WSI	(505) 327-3402
Water Hauling /Filtration	Ladd	(505) 334-3320
H2S Safety	Safety Alliance	(505) 325-7233
Tools	Baker Oil Tools	(505) 325-0216
Pressure Gauges	Tefteller Inc.	(505) 325-1731

Burlington Resources Oil and Gas Company  
Lease Number: I-22-IND-2772  
Well: Ute Mountain Ute #51  
Location: SW/4, Sec. 14, T.32N.,R.14W.  
San Juan County, New Mexico

3160

### **CONDITIONS OF APPROVAL**

1. Permission is granted to complete this well as per the approved procedure, and contingent upon the successful execution of the terms agreed to by Burlington Resources as required by the Ute Mountain Ute Indian Tribe, the Ute Mountain Agency Bureau of Indian Affairs, and the Bureau of Land Management.
2. Shut-in pressures **must** be collected for a minimum of 7 days for all perforated intervals being tested.
3. BLM concurrence (verbal) must be obtained prior to commingling and flowing well to stabilization.