

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  
1850'FSL, 1850'FEL Sec.28, T-26-N, R-9-W, NMPM

5. Lease Number  
SF-078060A

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name  
Huerfano Unit

8. Well Name & Number  
Huerfano Unit #205

9. API Well No.

10. Field and Pool  
Basin Ft Coal

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 -

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to plug back the Dakota and recompleate this well in the Fruitland Coal per the attached procedure and wellbore diagram.

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

Signed John Bradfield (MP) Title Regulatory Affairs Date 9/8/93

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

C-104 F-15L + Jolo

APPROVED

SEP 14 1993

DISTRICT MANAGER

UNMOSS

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 7-122  
Supersedes C-128  
Effective 1-1-61

All distances must be from the outer boundaries of the Section.

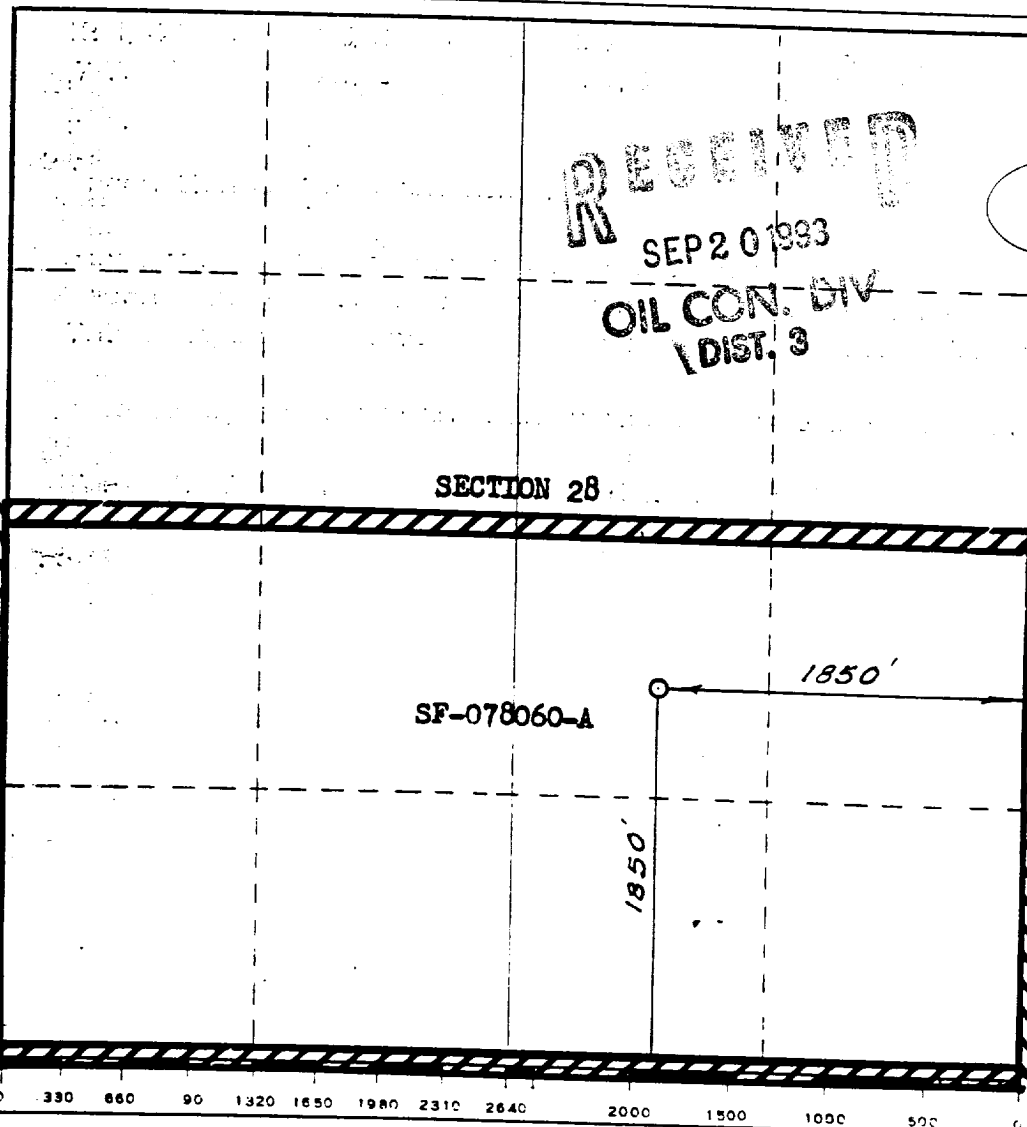
Operator <b>Meridian Oil Inc.</b>		Lease <b>HUERFANO UNIT</b>		Well No. <b>(SF-078060-A)</b>		Section <b>205</b>	
North Range <b>J</b>	Section <b>28</b>	Township <b>26-N</b>	Range <b>9-W</b>	County <b>SAN JUAN</b>			
Actual Location of Well: <b>1850</b> feet from the <b>SOUTH</b> line and <b>1850</b> feet from the <b>EAST</b> line.							
Ground Level Elev. <b>6467</b>	Producing Formation <b>Fruitland Coal</b>		Basin <b>Basin</b>		Leased Acreage <b>320.00</b>		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name  
**Peggy Bradfield**  
Position  
**Regulatory Representative**  
Company  
**Meridian Oil Inc.**

Date  
**9-8-93**

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 knowledge and belief.

Date  
**DECEMBER 10, 1970**

Registered Professional Engineer and/or Licensed Surveyor

*[Signature]*  
Certificate No. **1760**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

HUERFANO UNIT #205 FRTC  
FRTC Recompletion  
J 28 26 9

1. Comply to all NMOCD, BLM, & MOI, rules & regulations. MOL and RU P & A rig. Blow well down. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. Set blanking plug in 2-3/8" tbg @ S.N. @ 6516' & pressure test to 2500 psi. TOH w/210 Jts 2-3/8" tbg. TIH w/cmt ret stinger on 2-3/8" tbg. Circ sand off cmt ret @ 6592', sting into cmt ret, & sq w/12 sx cmt. This will fill perfs & csg below cmt ret w/100% excess cmt. Sting out of ret, reverse out, & TOH.
3. Run 4-1/2" csg scraper on tested 2-3/8" tbg to 6382'. TOH. Run 4-1/2" cmt ret. on 2-3/8" tbg & set @ 6382' (50' above top Dakota perf). Est rate & sq Dakota perfs & csg w/12 sx cmt. Sting out of ret, reverse out. Pressure test csg to 1000 psi.
4. Spot hole w/ 12 bbl mud: 15# sodium bentonite w/non-fermenting polymer, 8.4# gal weight, & 40 qs vis or greater. TOH.
5. Perf 2 sq holes @ 5602' (50' below top Gallup). W/2-3/8" tbg @ 5502' & pipe rams closed, est rate into sq holes & sq w/39 sx Cl "B" cmt. This will fill behind csg from 5602' to 5502' (50' above top Gallup) w/100% excess cmt. Open pipe rams & spot 12 sx cmt. This will fill inside csg from 5602' to 5502' w/50% excess cmt.
6. Spot hole w/ 30 bbl mud: 15# sodium bentonite w/non-fermenting polymer, 8.4# gal weight, & 40 qs vis or greater. TOH.
7. Perf 2 sq holes @ 3653' (50' below top Mesaverde). W/2-3/8" tbg @ 3653' & pipe rams closed, est rate into sq holes & sq w/39 sx Cl "B" cmt. This will fill behind csg from 3653' to 3553' (50' above top Mesaverde) w/100% excess cmt. Open pipe rams & spot 12 sx cmt. This will fill inside csg from 3653' to 3553' w/50% excess cmt.
8. Spot hole w/ 24 bbl mud: 15# sodium bentonite w/non-fermenting polymer, 8.4# gal weight, & 40 qs vis or greater. TOH & lay down tbg. Release P & A rig.
9. MI Wireline Truck w/mast truck. Set top drillable BP @ 2100'. Dump 2 sx sand on top BP. Run CBL from 2100' to top cmt in 4-1/2" csg. Run dual spaced neutron log from 2100'-1800'. Correlate to open hole Induction log. Hot-shot logs to Production Engr Dept before perforating.
10. MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Pressure test to 2500 psi. TIH w/2-3/8" tbg to 2000'. Role hole w/2% KCL water. TOH.
11. Perf Lower Fruitland Coal w/ 4 spf. Perfs will be picked by Production Engr Dept (about 1977'-90'). Total ~52-0.50 holes. Perf 3-1/2" w/16 gr Owens DML jets than have a 12.85" penetration in Berea.

JERNIGAN #3A CHACRA COMPLETION PROCEDURE  
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12. TIH with 4-1/2" pkr on 2-3/8" tbg & set @ 1800'. With 1000 psi on backside, breakdown & attempt to balloff w/1200 gal 15% HCL acid, 2% KCL water, & 120 perf balls. Acid to contain 1 gal/1000 gals of SAA-3 (surfactant) & 2 gals/1000 of C1A-2 (corrosion inhibitor). All fluid to contain 500 scf/bbl N2. Maximum pressure = 2500 psi. Record breakdown pressures. Shut well in for 1 hour.
13. Flow well back through choke manifold. Swab well if necessary. Record pitot gauges and water rates. TOH. Run junk basket to retrieve perf balls.

If pitot gauges are above 200 MCF/D omit Lower FRTC frac & go to Step #16. If pitot gauges were less than 200 MCF/D, prepare to frac.

14. Spot and fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank for gel and one for breakdown. Usable water required for frac is 257 bbls.
15. Frac Lower Fruitland Coal down csg with 35,000 gals. of 70% quality N2 foam and 45,000# Arizona sand. Pump foam at 35 BPM. Use 10,500 gals. 30# (guar) gel for base fluid. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration, with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 2500 psi and estimated treating pressure is 2300 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Foam Quality</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>	<u>Sand Mesh</u>
Pad	10,000	70	3,000	----	----
1.0 ppg	10,000	70	3,000	10,000	20/40
2.0 ppg	10,000	70	3,000	20,000	20/40
3.0 ppg	5,000	70	1,500	15,000	20/40
Flush	( 0 )	70	(1,310)	----	----
Totals	35,000		10,500	45,000#	

Treat frac fluid with the following additives per 1000 gallons:

- \* 30# J-4 (Base Gel)
- \* 5.0 gals. (Foaming Agent)
- \* 1.0 gal. Aqua-Flow (Non-ionic Surfactant)
- \* 1.0# B-11 (Enzyme Breaker)
- \* 1.0# B-5 (Breaker)
- \* 0.35# Frac Cide (Bacteriacide)

16. Set 4-1/2" ret BP @ 1970' on wireline. TIH w/2-3/8" tbg, load hole w/2% KCL water, & pressure test to 2500 psi.
17. Perf Upper Fruitland Coal w/ 4 spf. Perfs will be picked by Production Engr Dept (about 1940'-55'). Total ~60-0.50 holes. Perf 3-1/2" w/16 gr Owens DML jets than have a 12.85" penetration in Berea.
18. TIH with 4-1/2" pkr on 2-3/8" tbg & set @ 1800'. With 1000 psi on backside, breakdown & attempt to balloff w/1200 gal 15% HCL acid, 2% KCL water, & 150 perf balls. Acid to contain 1 gal/1000 gals of SAA-3

JERNIGAN #3A CHACRA COMPLETION PROCEDURE  
Page 3

(surfactant) & 2 gals/1000 of C1A-2 (corrosion inhibitor). All fluid to contain 500 scf/bbl N2. Maximum pressure = 2500 psi. Record breakdown pressures. Shut well in for 1 hour.

19. Flow well back through choke manifold. Swab well if necessary. Record pitot gauges and water rates. TOH. Run junk basket to retrieve perf balls.

If pitot gauges are above 200 MCF/D go to end of this procedure (Step #25). If pitot gauges were less than 200 MCF/D, prepare to frac.

20. Spot and fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank for gel and one for breakdown. Usable water required for frac is 257 bbls.
21. Frac Upper Fruitland Coal down csg with 35,000 gals. of 70% quality N2 foam and 45,000# Arizona sand. Pump foam at 35 BPM. Use 10,500 gals. 30# (guar) gel for base fluid. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration, with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 2500 psi and estimated treating pressure is 2300 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Foam Quality</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>	<u>Sand Mesh</u>
Pad	10,000	70	3,000	----	----
1.0 ppg	10,000	70	3,000	10,000	20/40
2.0 ppg	10,000	70	3,000	20,000	20/40
3.0 ppg	5,000	70	1,500	15,000	20/40
Flush	<u>(1,300)</u>	<u>70</u>	<u>( 390)</u>	<u>----</u>	<u>----</u>
Totals	35,000		10,500	45,000#	

Treat frac fluid with the following additives per 1000 gallons:

- \* 30# J-4 (Base Gel)
- \* 5.0 gals. (Foaming Agent)
- \* 1.0 gal. Aqua-Flow (Non-ionic Surfactant)
- \* 1.0# B-11 (Enzyme Breaker)
- \* 1.0# B-5 (Breaker)
- \* 0.35# Frac Cide (Bacteriacide)

22. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
23. TIH w/retrieving head on 2-3/8" tbg & C.O. w/air/mist to ret BP @ 1970'. When a stable gas gauge is obtained, retrieve ret. BP @ 1970'. TOH.
24. TIH w/3-7/8" bit on 2-3/8" tbg & clean out Lower FRTC w/air/mist to 2000'. Take pitot gauges when possible.
25. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2000'-1600' (If well was fraced).
26. TIH with 2-3/8" production tbg with standard seating nipple one joint

JERNIGAN #3A CHACRA COMPLETION PROCEDURE  
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off bottom. Land tbg @ 1950'. Again blow well clean. Take final pitot gauges, water samples, and gas samples.

27. ND BOP and NU wellhead. Rig down & release rig.
28. Install wellhead compressor.

Approved: \_\_\_\_\_  
J. A. Howieson

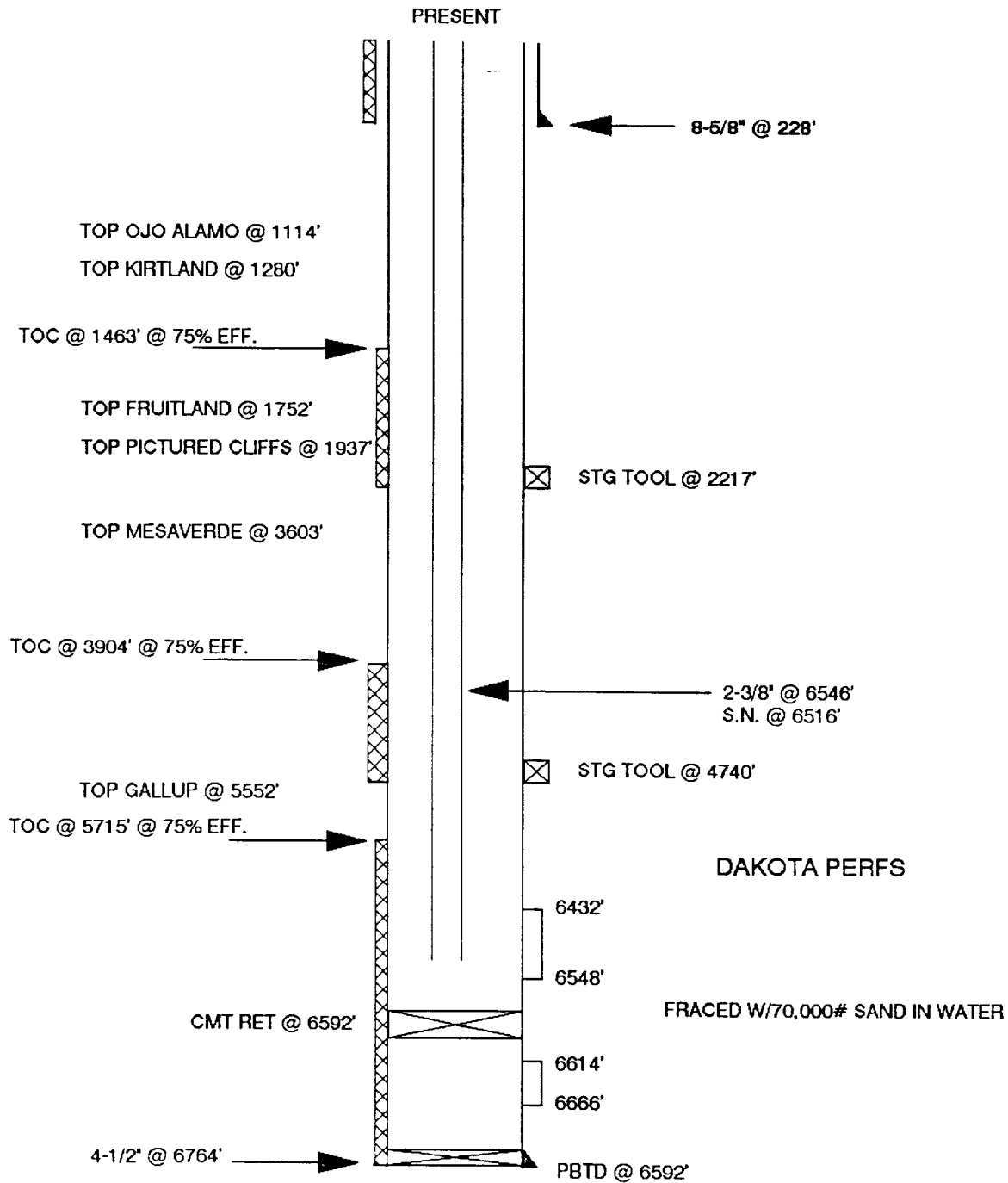
VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Acid:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133

PMP

# HUERFANO UNIT #205 DK

UNIT J SECTION 28 T26N R9W  
SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - HUERFANO UNIT #205 DK

Location: 1850' FSL 1850' FEL SEC. 28 T26N R09W, SAN JUAN COUNTY, N.M.

Field: Basin Dakota

Lease: Federal SF 078060-A

Elevation: 6470' TD: 6764'

11' KB PBTD: 6592'

DP#: 52351A

GWI: 49.68%

Completed: 7-7-70

NRI: 39.25%

Initial Potential:

AOF=4043 MCF/D, Q=3455 MCF/D, SICP=1971 psi

Casing Record:

Hole Size	Csg. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
12-1/4"	8-5/8"	24# J-55	228'	160 sx	Circ Cmt
7-7/8"	4-1/2"	10.5# KE	6764'	270 sx	5715' @ 75% Eff.
		Stage Tool @	4740'	215 sx	3904' @ 75% Eff.
		Stage Tool @	2217'	194 sx	1463' @ 75% Eff.

Tubing Record: 2-3/8" 4.7# JS 6546' 210 Jts  
S.N. @ 6516'

Formation Tops:

Ojo Alamo	1114'
Kirtland	1280'
Fruitland	1752'
Pictured Cliffs	1937'
Mesaverde	3603'
Point Lookout	4390'
Gallup	5552'
Dakota	6524'

Logging Record: Induction Log, Density Log.

Stimulation: Perf DK @ 6432'-40', 6470'-74', 6522'-30', 6540'-48', 6614'-22', 6658'-66', w/16 spz & fraced w/70,000# sand in water.

Workover History: 8-4-76: Set cmt ret @ 6592' to isolate lower Dakota from production. 1-15-86: Swabbed well. Couldn't get below 4400' due to piston. 2-10-87: Swabbed well. 4-10-89: Swabbed well.

Production History: First Delivery = 5-28-74. Cumulative=503 MMCF & 23,410 BO. Capacity = 0 MCF/D. Bradenhead = ? psi. Tbg pressure = ? psi. Csg pressure = ? psi. Line Pressure = ??? psi.

Pipeline: EPNG

PMP