

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

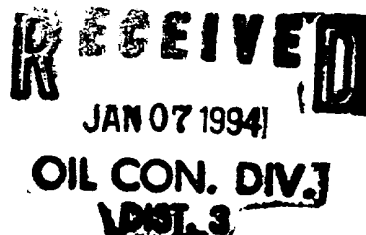
Sundry Notices and Reports on Wells

1. Type of Well GAS	API # (assigned by OCD)
2. Name of Operator MERIDIAN OIL	5. Lease Number B-9320-3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	6. State Oil&Gas Lease B-9320-3
4. Location of Well, Footage, Sec., T, R, M 990' FNL, 990' FEL Sec.32, T-27-N, R-10-W, NMPM, San Juan County	7. Lease Name/Unit Name Huerfano Unit
	8. Well No. 18
	9. Pool Name or Wildcat W.Kutz PC/Basin Ft C
	10. Elevation:

Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injectio

13. Describe Proposed or Completed Operations

It is intended to add and complete by perforating and fracture stimulation the Fruitland Coal formation to this wellbore. Production from the Pictured Cliffs and Fruitland coal will be commingled. Application si being amde to the NMOCD for commingling.



SIGNATURE [Signature] (SD) Regulatory Affairs December 30, 1993

(This space for State Use)

Approved by [Signature] TIDEPUTY OIL & GAS INSPECTOR, DIST. #3 Date JAN 7 1994

Schedule to Accompany:-
District Office -
State Lease - 4 copies
Fee Lease - 3 copies -

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-183
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Denver OD, Artesa, NM 88210

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87430

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Huerfanó Unit		Well No. 18
Unit Letter M	Section 32	Township 27 North	Range 10 West	County San Juan	
Adjacent Section Numbers of Well: 990 feet from the South line and 990 feet from the West line					
Ground Level Elev. 6103'		Producing Formations Fruitland Coal/Pic.Cliffs		Dedicated Acreage 320/160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or Indian ink 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 interest of all owners been consolidated by communitization, unitization, lease-pooling, etc.?

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

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

No allowable well be assigned to the well until all interests have been consolidated (by communitization, unitization, lease-pooling, or otherwise) or until a non-standard unit, encompassing such interest, has been approved by the Division.

*Not resurveyed, prepared from a plat dated 11-18-55 by Ewell U. Walsh.

RECEIVED
JAN 1994
SIC

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 Representative

Position

Meridian Oil Inc.

Company

12-30-93

Date

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 this same is true and correct to the best of my knowledge and belief. 1-3-94

Date Surveyed C. E. Edwards

Needs C. E. Edwards

Signature of Surveyor
Professional Surveyor

9857

6857

Pertinent Data Sheet - Huerfano Unit #18

Location: 990' FNL, 990' FEL, Section 32, T27N, R10W; San Juan County, New Mexico

Field: Fulcher Kutz Pictured Cliffs

Elevation: 6103' GR

TD: 1758'

PBTD: 1758'

Completed: 10-25-52

DP #: 50945A

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>
11"	8 5/8"	24.0#	110'	75 sxs	Surface/Circ
7 7/8"	5 1/2"	15.5# J-55	1695'	75 sxs	

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1 1/4"	2.4# 8rd	1757'

Formation Tops:

Ojo Alamo:	718'
Kirtland:	880'
Fruitland:	1445'
Pictured Cliffs:	1690'
Lewis:	1988'

Logging Record:

Stimulation:

Open Hole, 1695' - 1758'.

Treat: w/3000 gal diesel fuel & 2100# sand. Breakdown w/oil.

Workover History:

Production History:

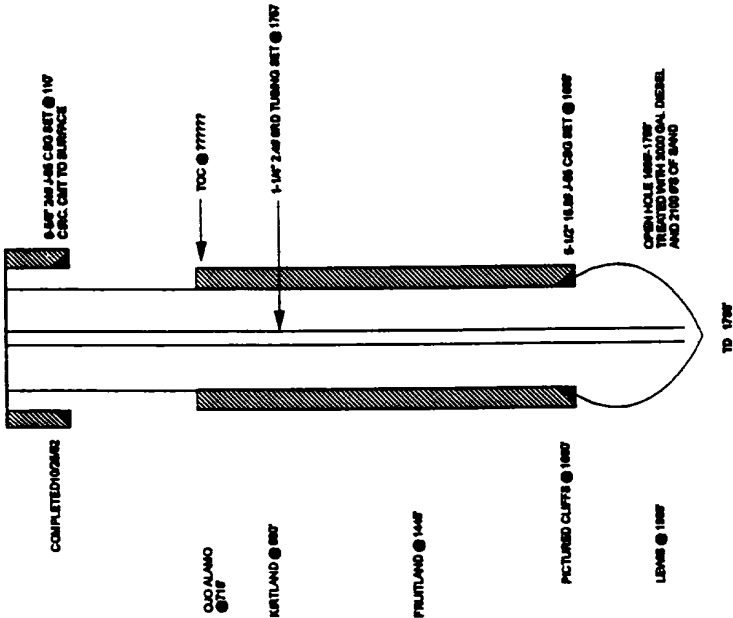
Transporter: EPNG

RECEIVED
JAN 07 1964
OIL CON. DIV
DIST. 3

HUERFANO UNIT #18

CURRENT

PULVER NUTZ PICTURED CLIPPERS
UNIT 14, SEC 22, T29N, R10W, SAN JUAN COUNTY, NM

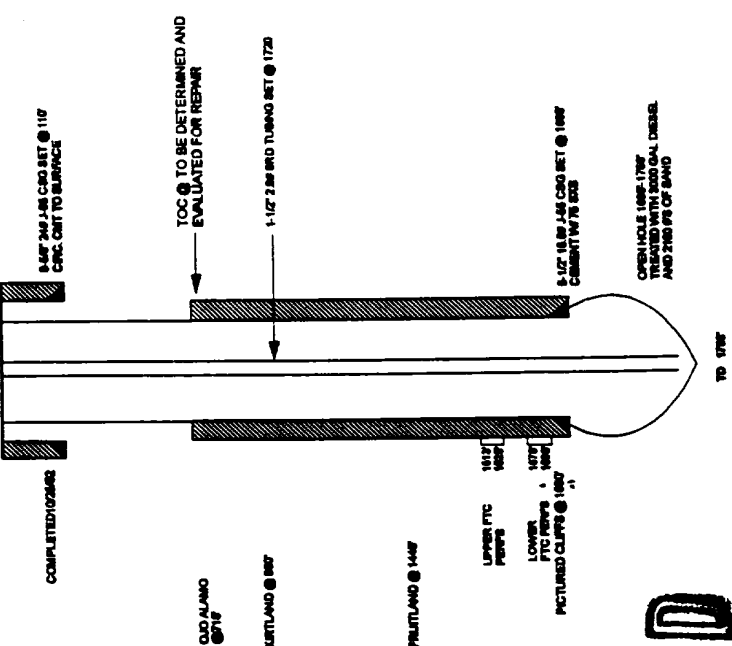


RECEIVED
JAN 07 1994
OIL CON. DIV.
DIST. 3

HUERFANO UNIT #18

PROPOSED

PULVER NUTZ PICTURED CLIPPERS
UNIT 14, SEC 22, T29N, R10W, SAN JUAN COUNTY, NM



**HUERFANO UNIT #18
Recommend Completion Procedure
SW/4 Section 32 T27N R10W**

1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCl water. Filter all water to 25 microns.
2. MOL and RU. Comply to all NMOC, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH w/ 1757' of 1-1/4" tbg, tally and inspect.
4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbg and clean out to 5-1/2" casing shoe @ 1695'. TOOH.
5. TIH w/ 4-3/4" bit on 2-3/8" work-string and clean out to open hole TD @ 1758'. Load hole w/ 15 bbls 2% KCl water. TOOH.
6. RU & RIH w/ CNL-CCL-GR and log from 1757' to 1400'
7. RIH and wireline set 5-1/2" CIBP @ 1692'. Load hole w/ water. TOOH.
8. TIH w/ fullbore packer and 2-3/8" tubing, load hole w/ 2% KCl water, set packer @ 1680', test CIBP to 3000 psi for 15 minutes. Test tubing/casing annulus to 500 psi for 15 minutes. Equalize pressure and unseat packer. TOOH.
9. RU wireline and run CBL from PBD (1692') to 150'. If CBL appears inadequate, re-run log with 750 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
10. Insure both 400 bbl tanks on location are filled with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns.

RECEIVED
JAN 07 1994
OIL CON. DIV
DIST. 3

HUERFANO UNIT #18
Recommend Completion Procedure
SW/4 Section 32 T27N R10W
Page 2

*****LOWER COAL*****

11. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1678-1690'

Total: 12 feet: 48 holes

12. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1600'. Load backside w/ 2% KCl water.
13. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 20 BPM with 65,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.25 mCl/1000# Sc-46 tracer. Flush with 12 bbls 2% KCl water. Estimated treating pressure is 1700 psi. MAXIMUM PRESSURE IS LIMITED TO 4000 PSI! Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
14. SI well for 3 hours for gel break.
15. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
16. Re-fill 400 bbl frac tanks with 2% KCl water and filter to 25 microns.
17. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-3/8" tbg and csg scraper to 1650'. TOOH. TIH and set 5-1/2" RBP @ 1560'.

RECEIVED
JAN 07 1994
OIL CON. DIV.
DIST. 3

HUERFANO UNIT #18
Recommend Completion Procedure
SW/4 Section 32 T27N R10W.
Page 3

*****UPPER COAL*****

JAN 07 1994
OIL CON. DIV.
1051.3


18. RU wireline and perf the following coal interval w/ 3-3/8" HSC w/ 16.0 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1513' - 1525'

Total: 12 feet: 48 holes

19. TIH w/ frac string and set pkr @ 1540'. Pressure test BP to 3000 psi surface pressure.
20. Release pkr, PU to 1450', load backside and set pkr @ approx 1450'.
21. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 75,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCi/1000# Ir-192 tracer. Flush with 11 bbls 2% KCl water. Estimated treating pressure is 2300 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSII** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
22. SI well for 3 hours for gel break.
23. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
24. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ retrieving head on 2-3/8" tbg and clean out upper zone until sand flow stops. Take Pitot gauge before releasing BP. Release RBP set @ 1560' and TOOH.
25. TIH w/ 2 3/8" tbg open ended and clean out lower coal until sand stops. After clean up, flow test the Coal for 24 hrs, taking pitot gauges every 6 hrs. Take final Pitot gauge and gas & water samples. TOOH
26. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean. Drill out CIPB set @ 1692', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
27. RU wireline and run After - Frac - GR log from 1750' to 1400'.
28. TIH w/ 1720' of 1-1/2" tbg w/ standard seating nipple one jt off bottom and pump-off plug on bottom. Land tbg string.
29. ND BOP and NU independent wellhead. Pump off plug. Take final Pitot gauge. Rig down & release rig.

Approve:


J. A. Howieson

VENDORS:

Wireline:
Fracturing:
RA Tagging:

Schlumberger
Western
Protechnics

325-5008
327-6222
326-7133