

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

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
1180'FNL, 930'FWL, Sec.34, T-29-N, R-10-W, NMPM, San Juan County

API # (assigned by OCD)
30-045-25432
5. Lease Number
Fee
6. State Oil&Gas Lease #
7. Lease Name/Unit Name
Pierce A
8. Well No.
4
9. Pool Name or Wildcat
Blanco Mesaverde/
Armenta Gallup
10. Elevation:

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

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The Gallup formation will be will be temporarily abandoned by setting a cast iron bridge plug due to economics.

RECEIVED
FEB - 7 1995
OIL CON. DIV.
DIST. 3

SIGNATURE *Ray J. Sheffield* (JCC2) Regulatory Affairs February 6, 1995

(This space for State Use)

Approved by *Eric R. Bandy* Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date FEB 13 1995

District I
PO Box 1980, Hobbs, NM 88241-1980
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

Form C-10.
Revised February 21, 199
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	Pool Code	Pool Name
30-045-25432	72319/02290	Blanco Mesaverde/Armenta Gallup
Property Code	Property Name	Well Number
7389	Pierce A	4
OGRID No.	Operator Name	Elevation
14538	Meridian Oil Inc.	5560

10 Surface Location


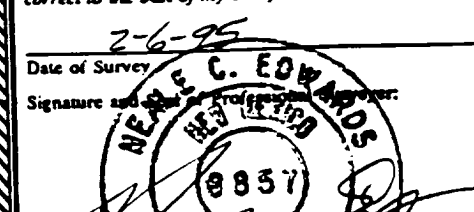
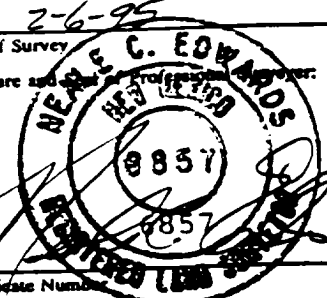
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	29 N	10 W		1180	North	930	East	San Juan

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
E/320-40			

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

16	17 OPERATOR CERTIFICATION
*Not resurveyed, prepared from a plat dated 9-23-82 by James P. Leese	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
RECEIVED FEB - 7 1995 OIL CON. DIV. DIST. 3	 Signature
	Peggy Bradfield Printed Name
	Regulatory Affairs Title
	2-6-95 Date
34	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.
	2-6-95 Date of Survey
	 Signature and Seal of Surveyor
	 Certificate Number

PIERCE A #4
Recommend Recompletion Procedure
Unit A Section 34 T29N R10W

1. Test rig anchors and repair if necessary. Install 11-400 bbl frac tanks on location and fill with 1% KCl water for fracture treatment. Filter all water to 25 microns. Heat water as required by weather.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules and regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH with 5369' of 2-3/8" tubing. Visually inspect for and replace all bad jts.
4. TIH on 2-3/8" tubing with 7-5/8" casing scraper and 6-1/8" bit. Clean out to top of liner hanger at 5234'. TOOH.
5. TIH with 2-3/8" tubing with 5-1/2" casing scraper and 3-7/8" bit. Clean out 5-1/2" liner from 5234' to PBTD at 6092' with air.
6. Blow to pit until sand production is minimal to absent. When well is clean, take 15, 30, 45 and 60 minute pitot gauges. TOOH.
7. Wireline set 7-5/8" CIBP at 4600'. Load hole with fresh water. TOOH.
8. RU wireline and run CBL/CCL/GR from PBTD 4600' to 2600' under 1000 psi surface pressure. TIH with 7-5/8" full-bore packer and 60' of 2-7/8" tubing and pressure test casing to 3300 psi. If pressure test does not hold, TIH with packer and tubing and locate failure. Contact Production Engineering and a repair procedure will be provided. Release packer and TOOH.

*****Point Lookout*****

9. Perforate with 4" Select-Fire HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.30". Perforate the following Point Lookout intervals with 1 spf.

4164'	4211'	4272'	4363'
4170'	4214'	4279'	4390'
4182'	4233'	4320'	4420'
4188'	4247'	4329'	
4207'	4254'	4357'	

Total: 18 holes.

10. TIH with 7-5/8" full bore packer on 2-7/8" tubing and set at 60'. RU stimulation company and prepare to breakdown and balloff with acid. Pump 1800 gal. of 15% HCl at 18-20 bbls/min. Drop a total of 36 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3300 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. TOOH with tubing and packer.

Pierce A #4
Recommend Recompletion Procedure
Unit A Section 34 T29N R10W
Page 2

11. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
12. TIH with 7-5/8" full-bore packer on 2-7/8" tubing and set at 60'. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4300 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3300 psi.** Fracture Point Lookout according to attached procedure. **Stimulation will be limited entry (approximately 2.5 bpm/perf), slickwater, 175,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 25% pad volume.** Flush to the top perf. Shut-in well immediately after stimulating well to keep in static condition. Release packer and TOOH.
13. RU wireline. Set 7-5/8" RBP at 4150'. Run dump bailer and dump 2 sxs sand on BP. TIH with 7-5/8" full-bore packer on 2-7/8" tubing and set at 60'. Test bridge plug and casing to 3300 psi for 15 minutes. Release packer and TOOH.

*****Menefee*****

14. Perforate with 4" Select-Fire HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.30". Perf the following Menefee intervals with 1 spf.

3708'	3851'	3979'
3770'	3861'	4052'
3784'	3898'	4063'
3794'	3943'	4106'
3826'	3973'	

Total: 14 holes.

15. TIH with 7-5/8" full bore packer on 2-7/8" tubing and set at 60'. RU stimulation company and prepare to breakdown and balloff with acid. Pump 1400 gal. of 15% HCl at 18-20 bbls/min. Drop a total of 28 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3300 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. Release packer and TOOH.
16. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
17. TIH with 7-5/8" full-bore packer on 2-7/8" tubing and set at 60'. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4300 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3300 psi.** Fracture Menefee according to attached procedure. **Stimulation will be limited entry (approximately 2.5 bpm/perf), slickwater, 175,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 25% pad volume.** Flush to the top perf. Release packer and TOOH.

Pierce A #4
Recommend Recompletion Procedure
Unit A Section 34 T29N R10W
Page 3

18. Flow back well (if needed) until returns diminish. TIH with retrieving head and 2-3/8" tubing and clean out to RBP at 4150' until sand returns and water production are minimal. Obtain pitot gauges. Release bridge plug and TOOH.
19. TIH with notched collar on 2-3/8" tubing and clean out to CIBP at 4600' until sand returns and water production are minimal. Obtain pitot gauges. TOOH.
20. TIH with 4420' of 2-3/8" tubing with standard seating nipple one joint off bottom and expendable check on bottom. Tag fill and do final cleanout if necessary. Land tubing string.
21. ND BOP and NU independent wellhead. Pump off check. **Take final Pitot gauge and gas, oil and water samples.**
22. Test bottom hole pump for pump action on surface.
23. TIH with approximately 4400' of 3/4" and 5/8" rods with new rebuilt pump. Seat pump and pressure test to 500 psi. Rig down and release rig.
24. Will move back on location and drill CIBP set at 4600' when appropriate regulatory approval is received.

Approve: _____
Regional Engineer

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	Petro	326-6669
Fracturing:	Western	327-6222
Down Hole Pump	Service Pump	326-5564
Production Engineer:	Office	326-9703
	Home	326-2381

LJB:ljb

Pertinent Data Sheet - Pierce A #4

Location: 1180' FNL, 930' FEL, Unit A, Section 34, T29N, R10W; San Juan County, New Mexico

Field: Armenta Gallup

Elevation: 5555' GL

TD: 6115'

PBTD: 6092'

Completed: 02-08-83

Spud Date: 01-08-83

DP #: 32445A

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>
14 3/4"	10 3/4"	40.5# K-55	318'	325 cu. ft.	Circ/Surface
9 7/8"	7 5/8"	26.4# K-55	5440'	2303 cu. ft.	Circ/Surface
6 3/4"	5 1/2"	15.5# K-55	5234' - 6090'	150 cu. ft.	TOC @ 5234'
		DV Tool @	2079'		

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# EUE	5369'

Formation Tops:

Ojo Alamo: 775'	Cliff House: 3475'
Kirtland: 835'	Point Lookout: 4125'
Pictured Cliffs: 1818'	Gallup: 5335'

Logging Record: Dual Ind Laterolog, Temp, Comp Density, Neutron, FDC-CNL

Stimulation:

Logging tool left in open hole. Contains 2 curries of cesium 137.
Placed 59 gal cement dyed red from 6112' to 6092'.

Upper Gallup

Perf'd: 5346', 5349', 5352', 5356', 5362', 5369', 5378', 5382', 5391', 5396', 5400', 5407', 5417', 5424', 5434', 5442', 5446', 5450', 5456', 5464', 5467', 5471', 5473', 5479', 5484', 5488', 5491', 5494' & 5500', Total of 29 holes
Frac'd: Acidize w/1,500 gal 15% HCl & ball sealers. Frac'd w/109,000# 20/40 sand & 75Q foam.
Pumped 590 bbls 2% KCl water & 1,860,900 SCF nitrogen.
Pumped 4,000 gal paraffin inhibitor ahead of frac.

Middle Gallup

Perf'd: 5536', 5542', 5548', 5554', 5562', 5568', 5571', 5576', 5580', 5583', 5590', 5591', 5599', 5602', 5611', 5614', 5620', 5624', 5628', 5634', 5638', 5641', 5645', 5649', 5654', 5660', 5666', 5672', 5680' & 5684'. Total of 30 holes.
Frac'd: Acidize w/1,300 gal 15% HCl & ball sealers. Frac'd w/109,000# 20/40 sand & 75Q foam.
Pumped 590 bbls 2% KCl water & 1,852,100 SCF nitrogen.
Pumped 4,000 gal paraffin inhibitor ahead of frac.

Lower Gallup

Perf'd: 5720', 5726', 5735', 5742', 5747', 5754', 5762', 5770', 5776', 5783', 5790', 5799', 5808', 5820', 5828', 5835', 5845', 5957', 5865', 5870', 5877', 5887', 5895', 5904', 5911', 5916', 5924', 5934', 5939', 5948'. Total of 30 holes
Frac'd: Acidize w/1,300 gal 15% HCl & ball sealers. Frac'd w/149,000# 20/40 sand & 75Q foam.
Pumped 831 bbls 2% KCl water & 2,375,786 SCF nitrogen.
Pumped 4,000 gal paraffin inhibitor ahead of frac.

Workover History:

Transporter: EPNG

32445A PIERCE A #4

ARMENTA GALLUP
UNIT A, SEC 34, T29N, R10W, SAN JUAN COUNTY, NM

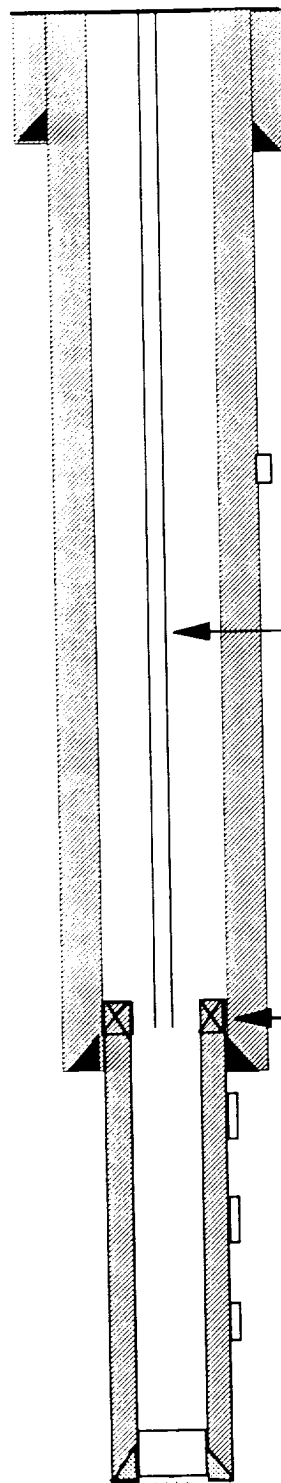
COMPLETED 2/08/83

OJO ALAMO @ 775'
KIRTLAND @ 835'

PICTURED CLIFFS @ 1818'

CLIFF HOUSE @ 3475'
POINT LOOKOUT @ 4125'

GALLUP @ 5335'



10-3/4" 40.5# K-55 CSG SET @ 318'
CMT W/ 325 CU FT.
CIRC. TO SURFACE

D.V. TOOL @ 2079'

2-3/8" 4.7# EUE TBG SET @ 5369'

7-5/8" 26.4# K-55 CSG SET @ 5440'
CMT W/ 2303 CU FT
CIRC. TO SURFACE

LINER HANGER @ 5234'

PERF 5346'-5500' 29-0.40" HOLES
FRAC W/ 109,000# 20-40 SND & 75 Q FOAM, 1700 GAL 15%
HCL. & 590 BBLs 2% KCL WTR. PUMPED 4000 GAL
PARAFFIN IHB AHD OF FRAC.

PERF 5536'-5684' 30-0.40" HOLES
FRAC W/ 109,000# 20-40 SND & 75 Q FOAM, 1500 GAL 15%
HCL & 590 BBLs 2% KCL WTR w/ 1,852,100 SCF N2. PUMPED
4000 GAL PARAFFIN IHB AHD OF FRAC.

PERF 5720'-5799', 5808' - 5895', 5904' - 5948' w/ 30 .40" HOLES
FRAC W/ 149,000# 20-40 SND & 75 Q FOAM, 1500 GAL 15%
HCL, & 831 BBLs 2% KCL WTR w/ 2,375,786 SCF N2.
PUMPED 4000 GAL PARAFFIN IHB AHD OF FRAC.

5-1/2" 15.5# K-55 LINER SET @ 6090'
CMT W/ 150 CU FT
TOC @ 5234'

2 CURRIES CESIUM 137 (30 YR. HALF LIFE)
OCCUPIES 2 -3 FT. OF OPEN HOLE AT THE
BOTTOM UNDER RED CEMENT

TD 6115'
PBSD
6092'