

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
850'FNL, 2010'FWL, Sec.34, T-29-N, R-10-W, NMPM, San Juan County

API # (assigned by OCD)

30-045-25433

5. Lease Number

Fee

6. State Oil&Gas Lease #

7. Lease Name/Unit Name

Pierce A

8. Well No.

3

9. Pool Name or Wildcat

Blanco Mesaverde *EXT*

Armenta Gallup

10. Elevation:

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

RECEIVED

FEB 16 1995

OIL CON. DIV.
DIST. 3

SIGNATURE

[Signature]

(JCC2) Regulatory Affairs February 14, 1995

(This space for State Use)

Approved by

[Signature]

DEPUTY OIL & GAS INSPECTOR, DIST. 3

FEB 16 1995

NO. 0-104 For NSL

District I
PO Box 1980, Hubba, NM 87241-1980
District II
PO Drawer DD, Armenta, NM 87211-0719
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
NSC

Form C-102
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 30-045-25433	Pool Code 72319/02290	Pool Name Blanco Mesaverde/Armenta Gallup
Property Code 7389	Property Name Pierce A	Well Number 3
OGRID No. 14538	Operator Name Meridian Oil Inc.	Elevation 5625

10 Surface Location

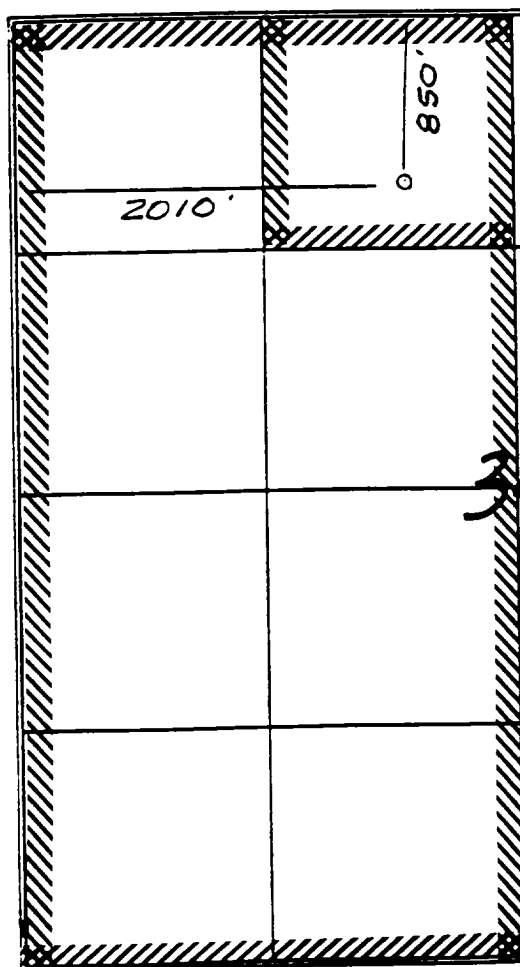

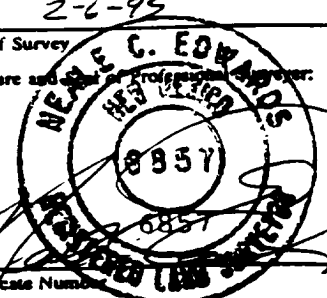
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
C	34	29 N	10 W		850	North	2010	West	San Jua

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres w/320- 40	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

	<p>*Not resurveyed, prepared from a plat dated 8-03-82 by James P. Leese</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p> Signature Peggy Bradfield Printed Name Regulatory Affairs Title 2-6-95 Date</p>
	<p>RECEIVED FEB 16 1995 OIL CON. DIV. DIST. 3</p>	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>2-6-95 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number</p>

PIERCE A #3
Recommend Recompletion Procedure
Unit C 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 5855' 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 5138'. 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 5138' to PBTD at 5990' 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.

4196'	4235'	4274'	4414'
4208'	4243'	4344'	4418'
4220'	4260'	4354'	4475'
4224'	4264'	4375'	
4232'	4267'	4382'	

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 bbl/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 #3
Recommend Recompletion Procedure
Unit C 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 3900'. 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 .

3791'	3832'	3858'
3797'	3835'	3863'
3812'	3842'	
3816'	3848'	
3825'	3852'	

Total: 12 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 1200 gal. of 15% HCl at 18-20 bbl/min. Drop a total of 24 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, 104,000 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 #3
Recommend Recompletion Procedure
Unit C 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 3900' 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 4475' 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 4455' 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 #3

Location: 850' FNL, 2010' FWL, Unit C, Section 34, T29N, R10W; San Juan County, New Mexico

Field: Armenta Gallup

Elevation: 5637' RKB

TD: 6032'

PBTD: 5990'

Completed: 12-17-82

Property #: 071212500

DP #: 32408A

Spud Date: 11-17-82

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# H-40	330'	322 cu. ft.	Circ/Surface
9 7/8"	7 5/8"	26.4# K-55	5341'	3010 cu. ft.	Circ/Surface
6 3/4"	5 1/2"	15.5# K-55	5138' - 6030'	177 cu. ft.	TOC @ 5138'
		DV Tool @	2063'		

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# J-55	5855'

Formation Tops:

Ojo Alamo:	767'	Cliff House:	3465'
Kirtland:	880'	Point Lookout:	4178'
Pictured Cliffs:	1880'	Gallup:	5398'

Logging Record: Dual Ind Laterolog, Temp, Comp Density, Neutron

Stimulation:

Upper Gallup

Perf'd: 5402', 5406', 5410', 5415', 5423', 5434', 5454', 5460', 5471', 5478', 5485', 5490',
5498', 5506', 5516', 5523', 5538', 5542', 5552', 5556', 5560', 5572', 5576', 5579',
5583', 5586', Total of 26 holes

Frac'd: w/100,000# 20/40 sand, 68,000 gal 70Q foam & 1,500 gal 15% HCL & ball sealers.

Middle Gallup

Perf'd: 5628', 5631', 5637', 5640', 5644', 5657', 5672', 5675', 5678', 5686', 5689', 5694',
5698', 5702', 5710', 5717', 5723', 5728', 5739', 5752', 5755', 5759', 5767', 5774',
Total of 24 holes.

Frac'd: w/100,000# 20/40 sand, 90,640 gal 70Q foam & 1,500 gal 15% HCL & ball sealers.

Lower Gallup

Perf'd: 5814', 5821', 5825', 5830', 5838', 5852', 5860', 5867', 5874', 5885', 5899', 5913',
5924', 5936', 5951', 5954', 5957', 5969', 5972', 5975'. Total of 20 holes.

Frac'd: w/60,000# 20/40 sand, 80,000 gal 70Q foam & 1,500 gal 15% HCL & ball sealers.

Workover History:

Production History:

Transporter: EPNG

32408A PIERCE A #3

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

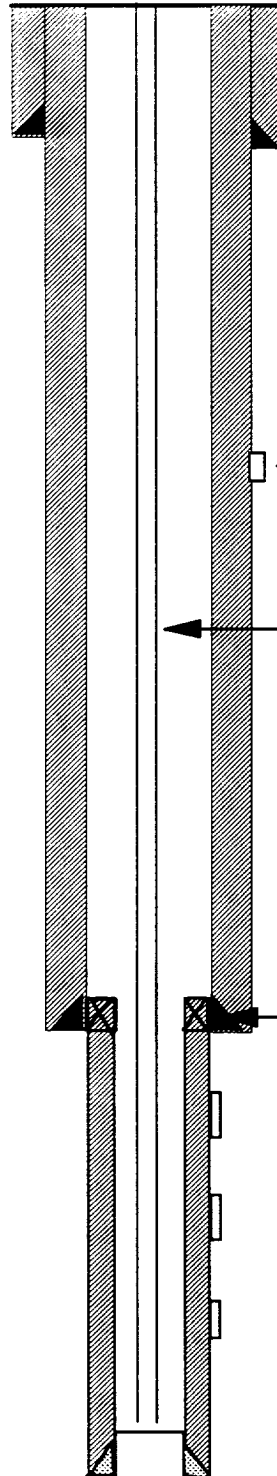
COMPLETED 12/17/82

OJO ALAMO @ 767'
KIRTLAND @ 880'

PICTURED CLIFFS @ 1888'

CLIFF HOUSE @ 3465'
POINT LOOKOUT @ 4178'

GALLUP @ 5398'



10-3/4" 40.5# H-40 CSG SET @ 330'
CMT W/ 322 CU FT.
CIRC. TO SURFACE

D.V. TOOL @ 2063'

2-3/8" 4.7# EUE TBG SET @ 5855'

7-5/8" 26.4# K-55 CSG SET @ 5340'
CMT W/ 3010 CU FT
CIRC. TO SURFACE

LINER HANGER @ 5138'

PERF 5402'-5486' 26-0.40" HOLES
FRAC W/ 100,000# 20-40 SND, 80,000 GAL 70 Q
FOAM, & 1500 GAL 15% HCL

PERF 5628'-5774' 24-0.40" HOLES
FRAC W/ 100,000# 20-40 SND, 90,640 GAL 70 Q
FOAM, & 1500 GAL 15% HCL

PERF 5814'-5975' 20-0.40" HOLES
FRAC W/ 60,000# 20-40 SND, 68,000 GAL 70 Q FOAM,
& 1500 GAL 15% HCL

5-1/2" 15.5# K-55 LINER SET @ 6030'
CMT W/ 177 CU FT
TOC @ 5138'

TD 6032'
PBD
5990'