

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
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
825' FSL, 1980' FEL, Sec. 33, T-29-N, R-10-W, NMPM

5. Lease Number
SF-080724A
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Zachry #45
9. API Well No.
30-045-25629
10. Field and Pool
Blanco Mesaverde EXT
Armenta Gallup
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 - Temporarily abandon Gallup
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to recompleate 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
APR 24 1995
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (LJB2) Title Regulatory Affairs Date 4/18/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date **APPROVED**

NMOCD

APR 19 1995
DISTRICT MANAGER

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Branso 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, 1994
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 30-045-25629		Pool Code 72319 / 02290		Pool Name Blanco Mesaverde/Armenta Gallup	
Property Code 7654		Property Name Zachry			Well Number 45
OGRID No. 14538		Operator Name Meridian Oil Inc.			Elevation 5775'

10 Surface Location

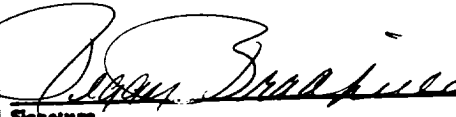
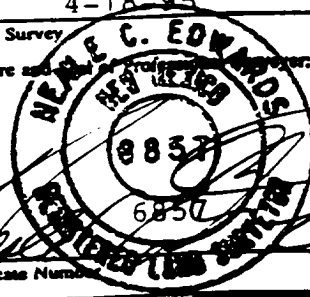
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	33	29N	10W		825	South	1980	East	S.J.

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

Dedicated Acres E/320	Joint or Infill	Consolidation Code	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

16	<div style="border: 2px solid black; padding: 10px; text-align: center;">* Not-resurveyed prepared from Plat: Dated: 11-12-82 By: Michael Daly</div>	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <div style="text-align: right;"> Signature Peggy Bradfield Printed Name Regulatory Affairs Title 4-18-95 Date</div>	
		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief. <div style="text-align: right;">4-18-95 Date of Survey NEAL C. EDWARDS Signature and Seal of Professional Surveyor:  Certificate Number</div>	

ZACHRY #45
Recommend Recompletion Procedure
Unit O Section 33 T29N R10W

1. Test rig anchors and repair if necessary. Install 12-400 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 5934' of 2-3/8" tubing. Visually inspect for and replace all bad jts.
4. TIH on 2-3/8" tubing with 7" casing scraper and 6-1/8" bit. Clean out to top of liner hanger at 5224'. TOOH.
5. TIH with 2-3/8" tubing with 4-1/2" casing scraper and 2-7/8" bit. Clean out 4-1/2" liner from 5224' to PBSD at 6080' 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. Mechanical set 7" CIBP at 4800'. Load hole with fresh water. Spot 7-1/2% HCl across the perforation area. TOOH.
8. RU wireline and run CBL/CCL/GR from PBSD 4800' to 2800' under 1000 psi surface pressure. TIH with 7" full-bore packer and 60' of 2-7/8" tubing and pressure test casing to 3400 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.

4658'	4541'	4357'	4286'
4608'	4516'	4448'	4270'
4598'	4475'	4438'	4262'
4591'	4436'	4428'	
4584'	4410'	4302'	

Total: 18 holes.

10. TIH with 7" 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 7-8 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 3400 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. TOOH with tubing and packer.

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Recommend Recompletion Procedure
Unit O Section 33 T29N R10W
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11. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
12. TIH with 7" full-bore packer on 2-7/8" tubing and set at 60'. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4400 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3400 psi.** Fracture Point Lookout according to attached procedure. **Stimulation will be limited entry (approximately 2.0 bpm/perf), slickwater, 175,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 30% 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" RBP at 4240'. TIH with 7" full-bore packer on 2-7/8" tubing and set at 60'. Test bridge plug and casing to 3400 psi for 15 minutes. Release packer and TOOH. Run dump bailer and dump 2 sxs sand on BP.

*****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.

4214'	4040'	3937'
4210'	4010'	3923'
4201'	4007'	
4195'	3942'	
4080'	3934'	

Total: 12 holes.

15. TIH with 7" 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 7-8 bbls/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 3400 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" full-bore packer on 2-7/8" tubing and set at 60'. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4400 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3400 psi.** Fracture Menefee according to attached procedure. **Stimulation will be limited entry (approximately 2.0 bpm/perf), slickwater, 112,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 30% pad volume.** Flush to the top perf. Release packer and TOOH.

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Recommend Recompletion Procedure
Unit O Section 33 T29N R10W
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18. Flow back well (if needed) until returns diminish. TIH with retrieving head and 2-3/8" tubing and clean out to RBP at 4240' 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 4800' until sand returns and water production are minimal. Obtain pitot gauges. TOOH.
20. TIH with 4660' 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 4640' 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 4800' when appropriate regulatory approval is received.

Approve: _____
Regional Engineer

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	Petro	326-6669
Fracturing:	Dowell	325-5096
Down Hole Pump	Service Pump	326-5564
Production Engineer:	Office	326-9703
	Home	326-2381

LJB:ljb

32462A ZACHRY #45

ARMENTA GALLUP
UNIT J, SEC 33, T29N, R10W, SAN JUAN COUNTY, NM

COMPLETED 5/05/83

OJO ALAMO @ 770'
KIRTLAND @ 977'

FRUITLAND @ 1670'

PICTURED CLIFFS @ 1972'
LEWIS @ 2080'

CHACRA @ 2570'

CLIFF HOUSE @ 3600'
POINT LOOKOUT @ 4290'

MANCOS @ 4610'

GALLUP @ 5406'

9-5/8" 36# K-55 CSG SET @ 308'
CMT W/ 325 CU/ FT)
CIRC. TO SURFACE

D.V. TOOL @ 2191'
CMT W/ 1496 CU/FT
CMT CIRC TO SURFACE

2-3/8" 4.7# EUE TBG SET @ 5934'

7" 23# K-55 CSG SET @ 5416'
CMT W/ 1453 CU/FT

LINER HANGER @ 5224'

PERF 5406'-5862' 28-0.24" HOLES
FRAC W/ 214,000# SND, 169,563 GAL 75 Q FOAM, &
& 3400 GAL 15% HCL

PERF 5928'-6080' 17-0.27" HOLES
FRAC W/ 92,500# SND, 113,494 GAL 75 Q FOAM, &
2200 GAL 15% HCL

4-1/2" 11.6# K-55 LINER SET @ 6130'
CMT W/ 186 CU FT
TOC @ 5224'

TD 6130'
PBTD
6080'

Pertinent Data Sheet - Zachry #45

Location: 825' FSL, 1980' FEL, Unit J, Section 33, T29N, R10W; San Juan County, New Mexico

Field: Armenta Gallup

Elevation: 5789' RKB

TD: 6130'

PBTD: 6080'

Completed: 05-05-83

Spud Date: 04-21-83

DP #: 32462A

Property #: 071212300

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>
12 1/4"	9 5/8"	36.0# K-55	308'	325 cu. ft.	Circ/Surface
8 3/4"	7"	23.0# K-55	5416'	2949 cu. ft.	Circ/Surface
6 1/4"	4 1/2"	11.6# K-55	5224' - 6130'	186 cu. ft.	TOC @ 5224'
		DV Tool @	2191'		

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2 3/8"	4.7# EUE	5934'	SN @ 5871'

Formation Tops:

Ojo Alamo:	770'	Chacra:	2570'
Kirtland:	977'	Cliff House:	3600'
Fruitland:	1670'	Point Lookout:	4290'
Pictured Cliffs:	1972'	Mancos:	4610'
Lewis:	2080'	Gallup:	5406'

Logging Record: CDL-CNL-GR, IEL-GR, GR-IES, GR-FDC, & TEMP

Stimulation:

Upper Gallup:

Perf'd: 5406', 5415', 5440', 5462', 5480', 5604', 5627', 5640', 5644', 5653',
5675', 5694', 5715', 5732', 5742', 5749', 5754', 5776', 5782', 5794',
5800', 5806', 5820', 5828', 5834', 5842', 5850', 5862'. Total of 28 holes. 0.24"
Frac'd: w/214,000# 20/40 sand, 169,563 gal 75Q foam & 3,400 gal 15% HCL.

Lower Gallup:

Perf'd: 5928', 5937', 5946', 5955', 5965', 5975', 5983', 5992', 6002', 6012',
6020', 6030', 6040', 6050', 6059', 6068', 6080'. Total of 17 holes. 0.27"
Frac'd: w/92,500# 20/40 sand, 113,494 gal 75Q foam & 2,200 gal 15% HCL.

Workover History:

Transporter: Union Texas Petroleum Corp.