

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  
715'FSL, 925'FWL, Sec.12, T-28-N, R-10-W, NMMP

5. Lease Number  
SF-080724A  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
8. Well Name & Number  
Zachry #54  
9. API Well No.  
30-045-25596  
10. Field and Pool  
Blanco Mesaverde/  
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

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 recompleate 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 17 1995  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (JCC2) Title Regulatory Affairs Date 2/6/95

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED  
FEB 10 1995  
DISTRICT MANAGER

10000

**Pertinent Data Sheet - Zachry #54**

**Location:** 715' FSL, 925' FWL, Unit M, Section 12, T28N, R10W; San Juan County, New Mexico

**Field:** Armenta Gallup

**Elevation:** 5826' RKB

**TD:** 6175'

**PBTD:** 6107'

**Completed:** 05-10-83

**Spud Date:** 04-11-83

**DP #:** 32469A

**Property #:** 071210100

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	36.0# K-55	315'	318 cu. ft.	Circ/Surface
8 3/4"	7"	23.0# K-55	5470'	2755 cu. ft.	Circ/Surface
6 1/4"	4 1/2"	11.6# K-55	5255' - 6164'	214 cu. ft.	TOC @ 5255'
		DV Tool @	2111'		

**Tubing Record:**

<u>Tbg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# EUE	5971'

SN @ 5908'

**Formation Tops:**

Ojo Alamo:	900'	Chacra:	2620'
Kirtland:	1060'	Cliff House:	3700'
Fruitland:	1730'	Point Lookout:	4340'
Pictured Cliffs:	2030'	Mancos:	4620'
Lewis:	2110'	Gallup:	5510'

**Logging Record:** CDL-CN-GR, IEL-GR

**Stimulation:**

**Upper Gallup:**

Perf'd: 5528', 5542', 5554', 5575', 5597', 5618', 5638', 5660', 5674', 5690',  
5710', 5728', 5744', 5753', 5759', 5772', 5790', 5806', 5816', 5823',  
5834', 5845', 5860', 5875'. Total of 24 holes.

Frac'd: w/200,000# 20/40 sand, 153,500 gal 75Q foam & 3,300 gal 15% HCL.

**Lower Gallup:**

Perf'd: 5956', 5968', 5978', 5986', 5998', 6008', 6018', 6028', 6039', 6054',  
6064', 6072', 6084', 6095', 6101', 6106'. Total of 16 holes.

Frac'd: w/42,000# 20/40 sand, 58,760 gal 75Q foam & 2,000 gal 15% HCL.

**Workover History:**

**Transporter:** Union Texas Petroleum Corp.

# 32469A ZACHRY #54

ARMENTA GALLUP  
UNIT M, SEC 12, T28N, R10W, SAN JUAN COUNTY, NM

2000-01-01 0:01

0.0000000000000000

COMPLETED 5/10/83

OJO ALAMO @ 900'  
KIRTLAND @ 1060'

FRUITLAND @ 1730'

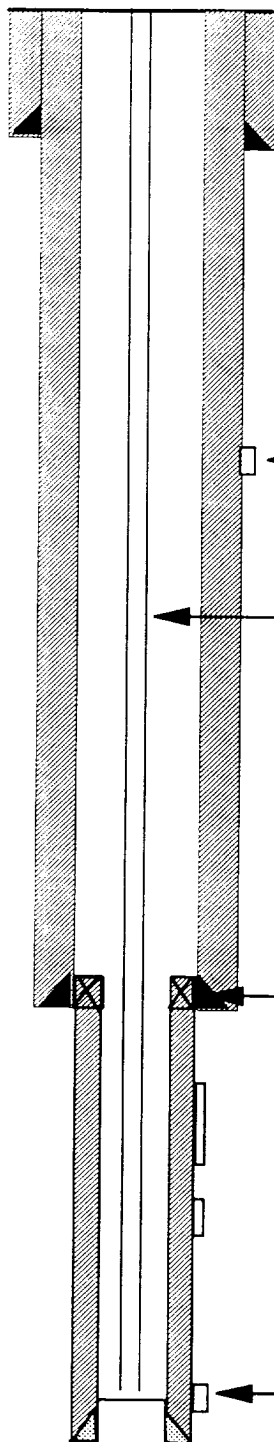
PICTURED CLIFFS @ 2030'  
LEWIS @ 2110'

CHACRA @ 2620'

CLIFF HOUSE @ 3700'  
POINT LOOKOUT @ 4340'

MANCOS @ 4620'

GALLUP @ 5510'



9-5/8" 36# K-55 CSG SET @ 315'  
CMT W/ 318 CU FT.  
CIRC. TO SURFACE

D.V. TOOL @ 2111'

2-3/8" 4.7# EUE TBG SET @ 5971'

7" 23# K-55 CSG SET @ 5470'  
CMT W/ 2755 CU FT  
CIRC. TO SURFACE

LINER HANGER @ 5255'

PERF 5528'-5875' 24-0.27" HOLES  
FRAC W/ 200,000# SND, 153,500 GAL 75 Q FOAM,  
& 3300 GAL 15% HCL

PERF 5956'-6106' 16-0.27" HOLES  
FRAC W/ 42,000# SND, 58,760 GAL 75 Q FOAM, &  
2000 GAL 15% HCL

4-1/2" 11.6# K-55 LINER SET @ 6164'  
CMT W/ 214 CU FT  
TOC @ 5255'  
FLOAT COLLAR @ 6118'

TD 6175'  
PBTD  
6107'

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-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WCC-104  
for NSC

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-25596	Pool Code 72319/02290	Pool Name Blanco Mesaverde/Armenta Gallup
Property Code 7654	Property Name Zachry	Well Number 54
OGRID No. 14538	Operator Name Meridian Oil Inc.	Elevation 5812

10 Surface Location

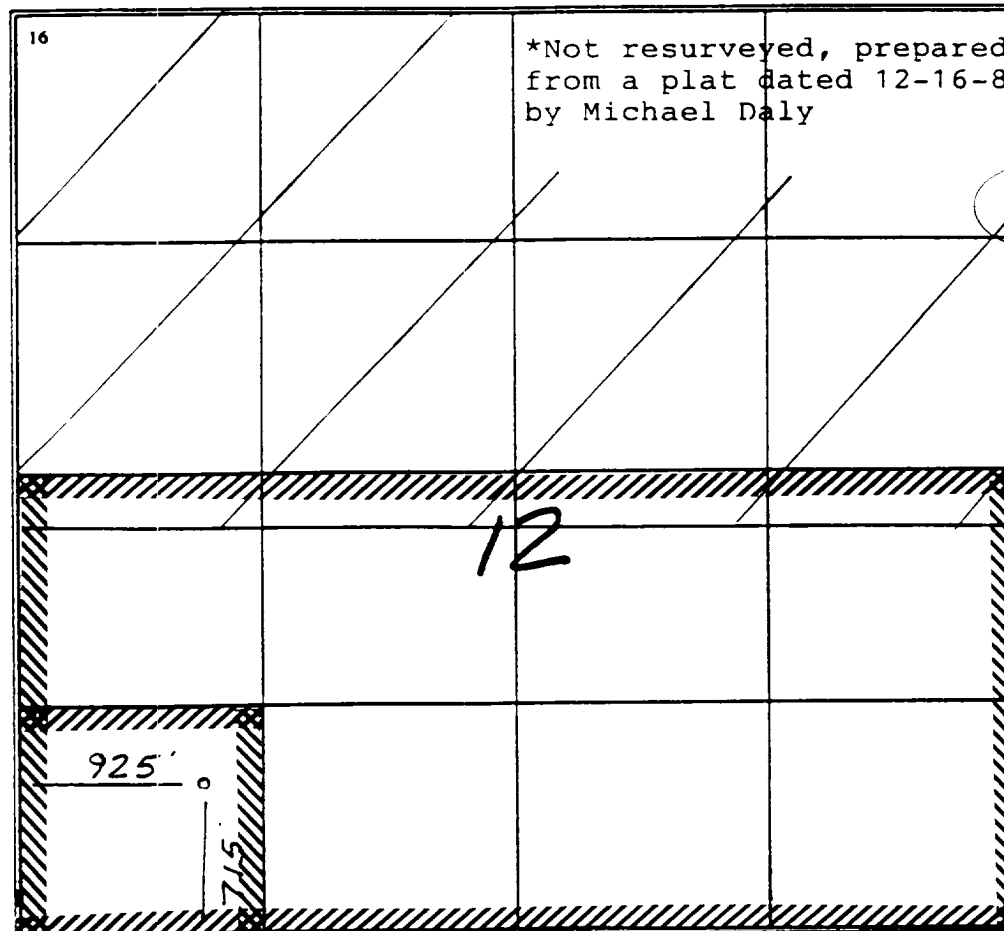
UL or lot no. M	Section 12	Township 28 N	Range 10 W	Lot Ida	Feet from the 715	North/South line South	Feet from the 925	East/West line West	County San Juan
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres A11/270.11	13 Joint or Infill 40	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

16 	*Not resurveyed, prepared from a plat dated 12-16-82 by Michael Daly	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Peggy Bradfield Printed Name Regulatory Affairs Title 2-6-95 Date
		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 Professional Engineer NEW MEXICO 8857 Certificate Number

**ZACHRY #54**  
**Recommend Recompletion Procedure**  
**Unit M Section 12 T28N R10W**

1. Test rig anchors and repair if necessary. Install 10-400 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 5971' 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 5255'. 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 5255' to PBTD at 6107' 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" CIBP at 4800'. Load hole with fresh water. TOOH.
8. RU wireline and run CBL/CCL/GR from PBTD 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 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 3-1/8" 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.

4346'	4392'	4465'	4558'
4351'	4396'	4478'	4577'
4358'	4400'	4486'	4610'
4363'	4408'	4512'	
4371'	4446'	4552'	

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 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 3400 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. TOOH with tubing and packer.

**ZACHRY #54**  
**Recommend Recompletion Procedure**  
**Unit M Section 12 T28N 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" 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 2.5 bpm/perf), slickwater, 158,000 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" RBP at 4300'. Run dump bailer and dump 2 sxs sand on BP. 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.

**\*\*\*Menefee\*\*\***

14. Perforate with 3-1/8" 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.

3982'	4040'	4164'
3996'	4046'	4210'
4006'	4050'	4244'
4012'	4054'	4254'
4036'	4110'	

Total: 14 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 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 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 2.5 bpm/perf), slickwater, 136,000 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.

**ZACHRY #54**  
**Recommend Recompletion Procedure**  
**Unit M Section 12 T28N 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 4300' 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 4610' 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 4590' 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:	Western	327-6222
Down Hole Pump	Service Pump	326-5564
Production Engineer:	Office	326-9703
	Home	326-2381

LJB:ljb