

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry Other		6. If Indian, Allottee or Tribe Name
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. 34376
2. Name of Operator Mewbourne Oil Company 14744		8. Lease Name and Well No. Avalon Ridge 33 Federal Com #1
3. Address PO Box 5270 Hobbs, NM 88240		9. API Well No. 30-015-33687
3a. Phone No. (include area code) 505-393-5905		10. Field and Pool, or Exploratory Burton Flat Atoka
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 810' FSL & 840' FWL, Unit M At top prod. interval reported below same At total depth same		11. Sec., T., R., M., on Block and Survey or Area Sec 33-T20S-R28E
		12. County or Parish Eddy County
		13. State NM

RECEIVED
OCT 11 2005
OUD-ARTESIA

14. Date Spudded 04/17/05	15. Date T.D. Reached 05/21/05	16. Date Completed <input type="checkbox"/> D&A <input checked="" type="checkbox"/> Ready to Prod.	17. Elevations (DF, RKB, RT, GL)* 3200' GL
18. Total Depth: MD 11765' TVD	19. Plug Back T.D.: MD 11605' TVD	20. Depth Bridge Plug Set: MD 11270' TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DLL w/Micro, DN w/GR & CBL		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8 H40	48	0	439'		730 H/C	207	Surface	NA
12 1/4	9 5/8 J/N80	40	0	2615'		1706 H/C	494	Surface	NA
8 3/4	5 1/2 N80	17	0	11765'	7599'	1st 1200 H	317	277'	
						2nd 1500 H	460		

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8	10540'	10503'						

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow S1	11318'	11372'	12'	0.24	48	Temporary Isolated
B) Atoka S2	10622'	10797'	31	0.24	65	open
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11318' - 11372'	Acidize with 1500 gals 7 1/2% acid. Isolate Morrow with CIBP and test Atoka. New PBTD at 11270'.
10622' - 10797'	Frac with 2000 gals 7 1/2% acid and 69,500 gals 70Q Binary Foam with 50,940# 18/40 VersaProp.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/26/05	06/02/05	12	→	0	953	2	44	0.639	sold
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
11/64	SI 1825	FC 1725	→	0	1906	4	1906000	Temporary Isolated	

ACCEPTED FOR RECORD

OCT - 5 2005

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/18/05	09/24/05	24	→	21	1818	10	44.10	0.603	Flowing
Choke Size	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
12/64	2525	0	→	21	1818	10	86,571	Producing	

(See instructions and spaces for additional data on next page)

28b. Production-- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg Press Flwg. SI	Csg. Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg Press Flwg. SI	Csg. Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Capitan Reef	788				
Delaware	2656				
Bone Spring	5076				
Wolfcamp	8998				
Strawn	10222				
Atoka	10620				
Morrow	11009				
Barnett	11678				

31. Formation (Log) Markers

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- ☒ 1 Electrical/Mechanical Logs (1 full set req'd.)
 ☐ 2 Geologic Report
 ☐ 3 DST Report
 ☐ 4 Directional Survey
☐ 5 Sundry Notice for plugging and cement verification
☐ 6 Core Analysis
☒ 7 Other: Dev Rpt, C104, Disposal Sundry, Wtr Analysis, Site Security

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Kristi GreenTitle Hobbs Regulatory

Signature

Date 09/28/05

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33687	Pool Code 73260	Pool Name Burton Flat Atoka
Property Code 34376	Property Name AVALON RIDGE 33 FEDERAL	Well Number 1
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3199'

Surface Location

UL or lot No. M	Section 33	Township 20 S	Range 28 E	Lot Idn	Feet from the 810	North/South line SOUTH	Feet from the 840	East/West line WEST	County EDDY
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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 320		Joint or Infill	Consolidation Code	Order No.					

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>RECEIVED OCT 11 2005 OOD-ARTESIA</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Kristi Green</i> Signature Kristi Green Printed Name Hobbs Regulatory Title 09/29/05 Date</p>
		<p>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>SEPTEMBER 20, 2004</p> <p>Date Surveyed Signature & Seal of Professional Surveyor Professional Surveyor W.C. No. 4656 Certificate No. Gary L. Jones 7977 BASIN SURVEYS</p>

OPERATOR MEWBOURNE OIL CO
WELL/LEASE AVALON RIDGE 33 FED 1
COUNTY EDDY, NM

045-0025

STATE OF NEW MEXICO
DEVIATION REPORT

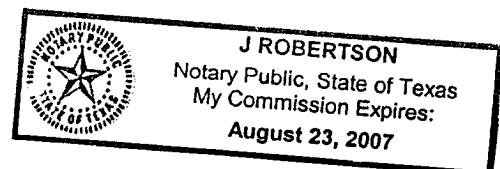
331	3/4	5,680	3/4
417	3/4	5,934	1
670	1 1/4	6,220	1 1/2
894	1 3/4	6,377	2 3/4
1,021	1	6,508	2 1/2
1,276	3/4	6,656	2
1,523	2	6,790	1 3/4
1,693	1 3/4	6,948	1 3/4
1,853	1 1/4	7,107	1 1/2
2,013	2 1/4	7,240	1 3/4
2,141	3 1/4	7,397	1
2,205	3	7,558	1 1/4
2,333	2 1/4	7,874	1 1/2
2,429	2 1/4	8,040	2 1/2
2,525	2	8,129	1 3/4
2,615	2	8,288	1
2,752	1 3/4	8,446	1 3/4
2,899	3/4	8,606	1 3/4
3,144	3/4	8,800	1 3/4
3,401	3/4	8,961	1 1/4
3,657	1/2	9,214	1
3,927	1/2	9,466	1/2
4,172	1/2	9,813	1
4,438	1/2	10,068	1
4,684	3/4	10,287	3/4
4,942	3/4	10,951	1/2
5,209	3/4	11,424	1 1/4
5,421	1	11,739	1 1/4

BY: Steve Moore

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on June 22, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.

J Robertson
Notary Public for Midland County, Texas
My Commission Expires: 8/23/07





Water Analysis

Date: 12-Sep-05

2708 West County Road, Hobbs NM 88240
Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	Avalone Ridge 33-1	Lea	New Mexico

Sample Source	Swab Sample	Sample #	1
Formation	Morrow	Depth	
Specific Gravity	1.020	SG @ 60 °F	1.022
pH	5.93	Sulfides	Absent
Temperature (°F)	72	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	6,719	in PPM	6,572
Calcium	in Mg/L	4,800	in PPM	4,695
Magnesium	in Mg/L	720	in PPM	704
Soluable Iron (FE2)	in Mg/L	3,000.0	in PPM	2,934

Anions

Chlorides	in Mg/L	24,000	in PPM	23,474
Sulfates	in Mg/L	200	in PPM	196
Bicarbonates	in Mg/L	952	in PPM	931
Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	14,671
Total Dissolved Solids (Calc)	in Mg/L	40,391	in PPM	39,506
Equivalent NaCl Concentration	in Mg/L	36,264	in PPM	35,469

Scaling Tendencies

*Calcium Carbonate Index 4,567,680

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 960,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks rw= .3@72f

Report # 1990