

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

- 1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
- b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2. Name of Operator **MURCHISON OIL & GAS, INC.**3. Address **1100 MIRA VISTA BLVD.
PLANO, TX. 75093-4698**3a. Phone No. (include area code)
972-931-0700

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **2580' FNL & 660' FEL SE/NE (H)**

At top prod. interval reported below

At total depth

14. Date Spudded
05/04/200515. Date T.D. Reached
07/03/200516. Date Completed
☐ D & A ☒ Ready to Prod.18. Total Depth: MD **11650**
TVD19. Plug Back T.D.: MD **11450**
TVD20. Depth Bridge Plug Set: MD **11220**
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

COMPENSATED NEUTRON DENSITY, LATERLOG, GR22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	68 #/FT		365'		600 SXS "H"	79 BBL	SURFACE	
12-1/4	9-5/8	40 #/FT		1992'		665 SXS "C"	85 BBL	SURFACE	
8-3/4	7-5/8	33&38		8805'		915 SXS "H"	117 BBL	2028' CBL	
6-1/2	5-1/2	17 #/FT	8472	11650'		360 SXS "H"	46 BBL		

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	11011	11011						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MORROW	11508	11535	11508 - 11535		88	PLUG BACK @ 11502'
B) MORROW	11467	11480	11467 - 11480		52	PLUG BACK @ 11450'
C) MORROW	11327	11406	11327 - 11406		104	PLUG BACK @ 11220'
D) MORROW	11230	11240	11230 - 11240		40	PLUG BACK @ 11220

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

Depth Interval	Amount and Type of Material
11480 - 11327	3500 GAL 7.5% MORROW ACID
11230 - 11240	1500 GAL 7.5% MORROW ACID
11106 - 11122	4000 GAL 10% ACETIC W/ METHANOL

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
08/10/2005	08/10/2005	12	→	0	0	70			SWAB
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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
08/11/2005	08/11/2005	12	→	0	0	54			SWAB
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

RECEIVED

OCT 05 2005

OCD-ARTS-914

See
page add
for addi
interval
E

ACCEPTED FOR RECORD

OCT - 4

LES BABYAK
PETROLEUM ENGINEER

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
08/18/2005	08/18/2005	24	→	0	193	0		.65	FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
12/64	SI 240	0	→	0	193	0	0		TEMPORARY PLUG BACK

See page added for additional interval

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
08/26/2005	08/26/2005	2	→	0	507	0		.65	FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
3/4	SI 35	0	→	0	42	0			TEMPORARY PLUG BACK

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

FLARED

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure):

PLUG BACK @ 11502' CIBP W/ 10' CEMENT
 PLUG BACK @ 11450' CIBP W/ 10' CEMENT
 PLUG BACK @ 11220' RBP TO BE RETRIEVED AS SOON AS PRACTICAL

33. Indicate which items have been attached by placing a check in the appropriate boxes:

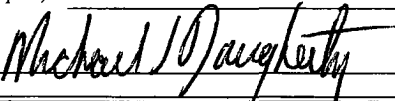
- ☒ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

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) MICHAEL S. DAUGHERTY

Title V P OPERATIONS

Signature



Date 09/21/2005

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.

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(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No.	
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator		7. Unit or CA Agreement Name and No.	
3. Address		8. Lease Name and Well No.	
3a. Phone No. (include area code)		9. AFI Well No.	
4. Location of Well (Report location clearly and in accordance with Federal requirements) At surface At top prod. interval reported below At total depth		10. Field and Pool, or Exploratory	
14. Date Spudded		11. Sec., T., R., M., on Block and Survey or Area	
15. Date T.D. Reached		12. County or Parish	
16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.		13. State	
17. Elevations (DF, RKB, RT, GL)*			
18. Total Depth: MD TVD		19. Plug Back T.D.: MD TVD	
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)		22. Was well cored? <input type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input 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

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
E MORROW	11106	11122	11106 - 11122		64	SHUT - IN

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

Depth Interval	Amount and Type of Material

28. Production - Interval **E**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/15/2005	09/15/2005	6	→	0	574	0		.65	FLOWING
Choke Size 32/64	Tbg. Press. SI 550	Csg. Press. 0	24 Hr. Rate →	Oil BBL 0	Gas MCF 3444	Water BBL 0	Gas/Oil Ratio	Well Status	SHUT-IN WAITING ON PIPELINE

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
			→						
Choke Size	Tbg. Press. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

*(See instructions and spaces for additional data on page 2)

OPERATOR Murchison Oil & Gas, Inc.
WELL/LEASE Moore Fed Com #4
COUNTY Eddy, NM

627-0115

STATE OF NEW MEXICO
DEVIATION REPORT

119	3/4
206	1
300	1 1/4
417	3/4
667	1
930	3/4
1,180	2
1,305	2 1/4
1,430	2 1/2
1,618	2 3/4
1,743	2 1/2
1,806	3
1,837	2 1/2
1,900	2
2,253	1/2
2,753	1
3,188	1 1/4
3,656	3/4
4,150	1/2
4,619	3/4
5,071	1
5,615	1
6,118	1/2
6,591	1
7,091	1
7,596	3/4
8,096	1
8,596	1 1/2
8,905	1 1/4
9,445	5
9,510	4 3/4
9,626	5
9,690	5
9,787	3
9,946	2
10,234	1
10,522	3/4
11,000	3/4
11,017	1 1/4
11,481	1 3/4
11,507	1 3/4

BY: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on July 18, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.


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



J ROBERTSON
Notary Public, State of Texas
My Commission Expires:
August 23, 2007