

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. Div-Dist. 2
301 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 ☒ Oil Well ☐ Gas Well ☐ Dry Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

2. Name of Operator

St. Mary Land & Exploration Company

3. Address

P.O. Box 7168, Billings, MT 59103-7168

3a. Phone No. (include area code)

(406) 245-6248

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

At surface 2000' FNL & 1564' FEL UL:G

At top prod. interval reported below Same

At total depth

Same

14. Date Spudded

11/12/03

15. Date T.D. Reached

11/25/03

16. Date Completed

☐ D&A ☒ Ready to Prod.

12/24/03

18. Total Depth: MD 4550
TVD 4550

19. Plug Back T.D.: MD 4503
TVD 4503

20. Depth Bridge Plug Set: MD 4375
TVD 4375

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

GR/CAL; MCFL; TDD/CNL; CMR

22. 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 H40	48	0	344		930 "C"	242.6	0 (Circ.)	
12-1/4	8-5/8 J55	32 & 24	0	3200	1598	2805 "C"	1103	0 (Circ.)	
7-7/8	5-1/2 J55	15.5	0	4550		585 "C"	194	0 (Circ.)	

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	4250							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Delaware "A"	3927	3999	3965 - 3967	.4	9	Open
B) Delaware "B"	3999	4144	4060 - 4062	.4	9	Open
C) Delaware "C"	4144	4284	4220 - 4230	.4	40	Open
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4220 - 4230	1000g 7-1/2% HCl; Frac w/47.370g Gel + 75.260 # 20/40 RCS
3965 - 4062	1000g 7-1/2% HCl; 54.040g Gel + 87.980 # 20/40 RCS

28. Production - Interval A, B, C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/24/03	2/3/04	24	<input type="checkbox"/>	18	20	410	40		2" Insert Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
	SI		<input type="checkbox"/>	18	20	410	1.111	Producing	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> ACCEPTED FOR RECORD FEB 9 2004 ALEXIS C. SWOBODA PETROLEUM ENGINEER </div>									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Call Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
	SI		<input type="checkbox"/>						

(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
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

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
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
CAPITAN	1740	3200	WATER	SALADO	355
				TANSILL	1265
				YATES	1517
				7 RIVERS	1647
				CAPITAN	1740
DELAWARE	3667	4550	OIL, GAS, & WATER	DELAWARE	3667

32. Additional remarks (include plugging procedure):

COMPLETION REPORT DELAYED AS WE WERE UNABLE TO ACCURATELY TEST UNTIL WE ADDED A FWKO AT THE BATTERY.

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: INCLINATION SURVEY

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) HERB THACKERAY Title OPERATIONS ENGINEER

Signature *Herb Thackeray* Date 2/05/04

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.

WELL NAME AND NUMBER PDU No. 305
LOCATION Section 35, T19S, R29E, Lea County NM
OPERATOR St. Mary Land & Exploration Company
DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1-1/4° 133'</u>	<u>1/2° 3185'</u>	<u> </u>
<u>1-1/2° 342'</u>	<u>3/4° 3517'</u>	<u> </u>
<u>3/4° 585'</u>	<u>1° 4014'</u>	<u> </u>
<u>1° 922'</u>	<u>1-1/2° 4550'</u>	<u> </u>
<u>1-1/4° 1454'</u>	<u> </u>	<u> </u>
<u>1/2° 1956'</u>	<u> </u>	<u> </u>
<u>1/2° 2364'</u>	<u> </u>	<u> </u>
<u>1-1/4° 2864'</u>	<u> </u>	<u> </u>

RECEIVED

FEB 11 2004

OCD-ARTESIA

Drilling Contractor United Drilling, Inc.

By: George A. Aho

Title: Business Manager

Subscribed and sworn to before me this 1st day of December,
2003.

Carline Martin
Notary Public

My Commission Expires:

Chaves New Mexico
County State