

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM025527A
2. Name of Operator OXY USA WTP LIMITED PTNRSHIP Contact: JESSICA SHELTON E-Mail: jessica_shelton@oxy.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79710-0250	3b. Phone No. (include area code) Ph: 713-840-3011	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T17S R27E NWSW 2230FSL 360FWL		8. Well Name and No. YESO VIKING FEDERAL 2
		9. API Well No. 30-015-41339-00-S1
		10. Field and Pool, or Exploratory RED LAKE
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

11/06/2013 ? SPUD 11? SURFACE HOLE. TD SURFACE HOLE @ 407?. RAN 8.625? J55 24# SURFACE CASING TO 407?.
 11/07/2013 ? 11/8/2013 ? CEMENTED W/ 333 SX 1.34 YLD. TOC = 0?; CIRCULATED 25 SX TO SURFACE.
 11/09/2013 ? PRESSURE TESTED SURFACE CASING TO 2065 PSI; 30 MIN = GOOD TEST.
 11/10/2013 ? BEGAN DRILLING 7.875? PRODUCTION HOLE.
 11/13/2013 ? TD WELL @ 4505?. RAN LOGS.
 11/14/2013 ? BEGAN RUNNING 5.5? L80 17# PRODUCTION CASING. LANDED PRODUCTION CASING @ 4505?.
 CEMENTED W/ 760SX 2.43 YLD. TOC = 0?; CIRCULATED 101 SX TO SURFACE.
 11/15/2013 ? RELEASED RIG.

Accepted for record
RD NMDCD 3/11/14

14. I hereby certify that the foregoing is true and correct. Electronic Submission #230892 verified by the BLM Well Information System For OXY USA WTP LIMITED PTNRSHIP, sent to the Carlsbad Committed to AFMSS for processing by JOHNNY DICKERSON on 01/30/2014 (14JLD1840SE)	
Name (Printed/Typed) JESSICA SHELTON	Title REGULATORY TECHNICIAN
Signature (Electronic Submission)	Date 01/02/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JAMES A AMOS Title SUPERVISOR EPS	Date 02/17/2014
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



RYAN DIRECTIONAL SERVICES, INC.
A NABORS COMPANY

19510 Oil Center Blvd
Houston, TX 77073
Bus 281.443.1414
Fax 281.443.1676

Tuesday, December 10, 2013

Other

Subject: Survey Certification Letter

**Re: OXY, USA
Yeso Viking Federal #2
Eddy, NM
A.P.I. No: 30-015-41339**

I, Joe Rodriguez, certify that; I am employed by Ryan Directional Services, Inc.; that I did on the conduct or supervise the taking of the following MWD surveys:

on the day(s) of 11/6/2013 thru 11/13/2013 from a depth of 419' MD to a depth of 4443' MD and Straight line projection to TD 4503' MD;

that the data is true, correct, complete, and within the limitations of the tool as set forth by Ryan Directional Services, Inc.; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY, USA for the Yeso Viking Federal #2; Well API No. A.P.I. No: 30-015-41339 in Eddy, NM.


Joe Rodriguez
MWD Operator
Ryan Directional Services, Inc.



RYAN DIRECTIONAL SERVICES, INC.
A NABORS COMPANY

19510 Oil Center Blvd
Houston, TX 77073
Bus 281.443.1414
Fax 281.443.1676

Tuesday, December 10, 2013

Other


Subject: **Surveys**

Re: **OXY, USA**
Yeso Viking Federal #2
Eddy, NM
A.P.I. No: 30-015-41339

Enclosed, please find the original and one copy of the survey performed on the above-referenced well by Ryan Directional Services, Inc. (Operator #:). Other information required by your office is as follows:

Surveyor Name	Surveyor Title	Borehole Number	Start Depth	End Depth	Start Date	End Date	Type of	TD Straight Line Projection
Rodriguez, Joe	MWD Operator	O.H.	419'	4443'	11/06/13	11/13/13	MWD	4503'

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required please contact the undersigned at the letterhead address or phone number.


Alex Karpiuk
Coordinator

Report #: 1

Date: 13-Nov-13

**RYAN DIRECTIONAL SERVICES, INC.**

A NABORS COMPANY

Ryan Job #: 6921

Kit #

SURVEY REPORT

Customer: Oxy, USA
 Well Name & No.: YESO VIKING FEDERAL #2
 County, State: Eddy Co, Texas
 Rig Contractor & No.: Savannah 415
 Surface Location: Y or Lat: 32°49'06.784N
 X or Long: 104°15'22.626W
 NAD27 or NAD83: NAD27
 Survey Corrected To: True North

MWD Operator: Joe Rodriguez
 RKB: 14.0
 Ground Elevation: 3554.9
 Vertical Section Direction: 0.00
 Magnetic Declination: 7.61
 Convergence: 0.04
 API Number: 30-015-41339

Minimum Curvature Calculation

Sur #	Meas. Depth	Inc.	Azm.	Course Len.	TVD	Ver. Sect.	+N/-S	+E/-W	DLS	Cls Dir	Cls Azm
Tie In to Gyro Surveys											
Tie In	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	419.0	0.31	227.2	419.00	419.00	-0.77	-0.77	-0.83	0.07	1.13	227.20
2	473.3	0.22	266.9	54.30	473.30	-0.88	-0.88	-1.04	0.37	1.36	230.00
3	595.9	0.31	254.1	122.60	595.90	-0.98	-0.98	-1.60	0.09	1.87	238.49
4	687.4	0.79	244.5	91.50	687.39	-1.32	-1.32	-2.40	0.53	2.74	241.27
5	806.4	1.27	252.2	119.00	806.37	-2.07	-2.07	-4.40	0.42	4.87	244.76
6	836.4	1.23	247.7	30.00	836.36	-2.30	-2.30	-5.02	0.35	5.52	245.38
7	958.5	1.71	245.4	122.10	958.42	-3.55	-3.55	-7.88	0.40	8.65	245.73
8	1061.3	1.67	243.3	102.80	1061.18	-4.87	-4.87	-10.62	0.07	11.68	245.38
9	1105.6	1.45	240.9	44.30	1105.46	-5.43	-5.43	-11.68	0.52	12.88	245.08
10	1148.8	1.36	240.4	43.20	1148.65	-5.95	-5.95	-12.61	0.21	13.94	244.74
11	1191.1	1.27	249.4	42.30	1190.94	-6.36	-6.36	-13.48	0.53	14.91	244.74
12	1234.6	1.41	241.8	43.50	1234.43	-6.78	-6.78	-14.41	0.52	15.92	244.79
13	1277.4	1.54	253.6	42.80	1277.21	-7.19	-7.19	-15.42	0.77	17.02	244.99
14	1319.9	1.71	266.3	42.50	1319.70	-7.40	-7.40	-16.60	0.93	18.17	245.99
15	1362.6	1.80	279.5	42.70	1362.38	-7.33	-7.33	-17.90	0.97	19.34	247.74
16	1405.8	1.76	279.9	43.20	1405.56	-7.10	-7.10	-19.22	0.10	20.49	249.72
17	1491.3	1.41	278.9	85.50	1491.02	-6.71	-6.71	-21.55	0.41	22.58	252.70
18	1534.7	1.49	278.6	43.40	1534.41	-6.55	-6.55	-22.64	0.19	23.57	253.88
19	1582.6	1.23	275.1	47.90	1582.30	-6.41	-6.41	-23.77	0.57	24.62	254.91
20	1754.1	1.19	284.1	171.50	1753.76	-5.81	-5.81	-27.33	0.11	27.94	258.00
21	1841.0	1.27	282.2	86.90	1840.64	-5.39	-5.39	-29.14	0.10	29.64	259.53
22	1882.4	1.23	282.9	41.40	1882.03	-5.19	-5.19	-30.03	0.10	30.47	260.19
23	2013.9	1.19	278.4	131.50	2013.50	-4.67	-4.67	-32.75	0.08	33.08	261.88
24	2186.0	0.83	274.9	172.10	2185.57	-4.31	-4.31	-35.76	0.21	36.02	263.13
25	2229.5	0.97	282.0	43.50	2229.07	-4.20	-4.20	-36.44	0.41	36.68	263.42
26	2272.5	0.88	275.4	43.00	2272.06	-4.10	-4.10	-37.12	0.32	37.35	263.70
27	2315.3	0.92	280.9	42.80	2314.85	-4.00	-4.00	-37.79	0.22	38.00	263.96
28	2358.1	0.83	280.4	42.80	2357.65	-3.88	-3.88	-38.43	0.21	38.62	264.23
29	2400.9	0.75	284.9	42.80	2400.45	-3.75	-3.75	-39.00	0.24	39.18	264.50
30	2443.6	0.66	286.6	42.70	2443.14	-3.61	-3.61	-39.51	0.22	39.67	264.78
31	2486.3	0.44	281.7	42.70	2485.84	-3.51	-3.51	-39.91	0.53	40.06	264.98
32	2622.9	0.50	274.7	136.60	2622.44	-3.35	-3.35	-41.01	0.06	41.15	265.33
33	2661.2	0.53	271.1	38.30	2660.73	-3.33	-3.33	-41.36	0.12	41.49	265.39
34	2705.0	0.57	254.0	43.80	2704.53	-3.39	-3.39	-41.77	0.38	41.91	265.36
35	2748.1	0.62	249.7	43.10	2747.63	-3.53	-3.53	-42.19	0.16	42.34	265.22
36	2791.1	0.53	240.8	43.00	2790.63	-3.71	-3.71	-42.59	0.29	42.75	265.02
37	2833.6	0.57	249.0	42.50	2833.13	-3.88	-3.88	-42.95	0.21	43.13	264.84
38	2876.8	0.48	258.9	43.20	2876.32	-3.99	-3.99	-43.33	0.30	43.52	264.74
39	2919.8	0.40	280.2	43.00	2919.32	-4.00	-4.00	-43.66	0.42	43.84	264.77
40	2962.8	0.57	273.8	43.00	2962.32	-3.96	-3.96	-44.02	0.41	44.20	264.86
41	3005.8	0.57	273.0	43.00	3005.32	-3.93	-3.93	-44.45	0.02	44.62	264.94
42	3048.4	0.53	276.3	42.60	3047.92	-3.90	-3.90	-44.85	0.12	45.02	265.03
43	3091.6	0.40	268.5	43.20	3091.12	-3.88	-3.88	-45.20	0.33	45.37	265.09
44	3134.8	0.26	251.8	43.20	3134.32	-3.92	-3.92	-45.45	0.39	45.61	265.07
45	3221.2	0.22	251.1	86.40	3220.71	-4.03	-4.03	-45.79	0.05	45.97	264.97
46	3264.0	0.18	241.4	42.80	3263.51	-4.09	-4.09	-45.93	0.12	46.11	264.91
47	3349.9	0.31	273.3	85.90	3349.41	-4.14	-4.14	-46.28	0.21	46.46	264.88
48	3392.7	0.31	278.7	42.80	3392.21	-4.12	-4.12	-46.51	0.07	46.69	264.94
49	3479.0	0.22	334.1	86.30	3478.51	-3.93	-3.93	-46.81	0.30	46.97	265.20
50	3522.0	0.18	308.1	43.00	3521.51	-3.82	-3.82	-46.90	0.23	47.05	265.35
51	3565.2	0.18	280.8	43.20	3564.71	-3.76	-3.76	-47.02	0.20	47.17	265.42

[illegible]

Occidental Oil & Gas Corp – Permian Primary – North NM/Terrell RMT

Well: Yeso Viking Federal #2

API: 30-015-41339

State: New Mexico

County: Eddy

T17S R27E, Sec 23

2230' FSL & 360' FWL

Field: Yeso

TD: 4,505

PBTD: 4,435'

KB: 3,569' ASL

Casing Size:

Grade/Weight:

Depth:

Cement:

8-5/8"

J-55 STC / 24#

407'

493 sx, circ'd to surf

5-1/2"

L-80 BTC / 17#

4,505'

760 sx, circ'd to surf

Surf Csg: 8-5/8" 24# J-55 STC from
Cement: 493 sx, circ'd to surf

Surf Csg @ 407'

Perforation Intervals

4b.	3152' – 3158.13'
4a.	3220' – 3228.13'
3b.	3320' – 3326.13'
3a.	3350' – 3358.13'
2b.	3836' – 3842.13'
2a.	3906' – 3914.13'
1b.	4084' – 4090.13'
1a.	4194' – 4202.13'

Prod Csg: 5-1/2" 17# L-80 LTC
Cement: 760 sx, circ'd to surf

PBTD @ 4435'

Prod Csg @ 4,505'
TD @ 4,505'

KB: 3,569' ASL