

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCD Artesia
MAY 07 2018

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM89819

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resv.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
OXY USA INC

Contact: JANA MENDIOLA
E-Mail: janalyn_mendiola@oxy.com

8. Lease Name and Well No.
PATTON MDP1 18 FEDERAL 23H

3. Address
MIDLAND, TX 79710

3a. Phone No. (include area code)
Ph: 432-685-5936

9. API Well No.
30-015-44316-00-S1

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

At surface NWNE 335FNL 2122FEL 32.223671 N Lat, 103.815254 W Lon

At top prod interval reported below NWNE 800FNL 2258FEL 32.223656 N Lat, 103.815704 W Lon

At total depth SWSE 192FSL 2212FEL 32.210564 N Lat, 103.815704 W Lon

10. Field and Pool, or Exploratory
CORRAL DRAW-BONE SPRING

11. Sec., T., R., M., or Block and Survey
or Area Sec 18 T24S R31E Mer NMP

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
08/12/2017

15. Date T.D. Reached
09/23/2017

16. Date Completed
☐ D & A ☒ Ready to Prod.
12/03/2017

17. Elevations (DF, KB, RT, GL)*
3533 GL

18. Total Depth: MD
TVD

14917
10286

19. Plug Back T.D.: MD
TVD

14853
10285

20. Depth Bridge Plug Set: MD
TVD

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

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

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
17.500	13.375 J55	54.5	0	655		650	156	0	
12.250	9.625 J55	36.0	0	4380		1350	435	0	
8.500	5.500 P110	20.0	0	14911		1650	654	3830	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10033	10033						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING 2ND			10613 TO 14721	0.420	704	ACTIVE
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10613 TO 14721	7665714G SLICK WATER + 22806G 15% HCL ACID + 1008G LINEAR GEL W/ 8802142# SAND

ACCEPTED FOR RECORD

APR 29 2018

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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
12/04/2017	12/10/2017	24	→	3916.0	2644.0	3771.0			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
43/128	SI	1005.0	→	3916	2644	3771	6752	POW	

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. 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 reverse side)

ELECTRONIC SUBMISSION #406214 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 06/03/2018

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	Tbg. 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	Tbg. 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.)
SOLD

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
BELL CANYON	4320	5212	OIL, GAS, WATER	RUSTLER	607
CHERRY CANYON	5213	6451	OIL, GAS, WATER	SALADO	958
BRUSHY CANYON	6452	8137	OIL, GAS, WATER	CASTILE	2320
BONE SPRING	8138	9140	OIL, GAS, WATER	DELAWARE	4299
BONE SPRING 1ST	9141	9859	OIL, GAS, WATER	BELL CANYON	4320
BONE SPRING 2ND	9860	10286	OIL, GAS, WATER	CHERRY CANYON	5213
				BRUSHY CANYON	6452
				BONE SPRING	8138

32. Additional remarks (include plugging procedure):
52. FORMATION (LOG) MARKERS CONTD.

1ST BONE SPRING 9141'M
2ND BONE SPRING 9860'M

Logs were mailed 3/2/18.

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: | |

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

Electronic Submission #406214 Verified by the BLM Well Information System.

For OXY USA INC, sent to the Carlsbad

Committed to AFMSS for processing by DUNCAN WHITLOCK on 03/12/2018 (18DW0101SE)

Name (please print) DAVID STEWART

Title SR REGULATORY ADVISOR

Signature _____ (Electronic Submission)

Date 03/01/2018

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #406214 that would not fit on the form

32. Additional remarks, continued

Log Header, Directional Survey, As-Drilled Amended C-102 plat & WBD are attached.

RECEIVED

MAY 07 2018

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

☒ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1281 Fax: (505) 748-0720

District III
1000 Rio Grande Road, Artesia, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3450 Fax: (505) 476-3452

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44316	Pool Code 13367	Pool Name Cotton Draw; Bone Spring
Property Code 316483	Property Name PATTON MDP1 "18" FEDERAL	Well Number 23H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3532.8'

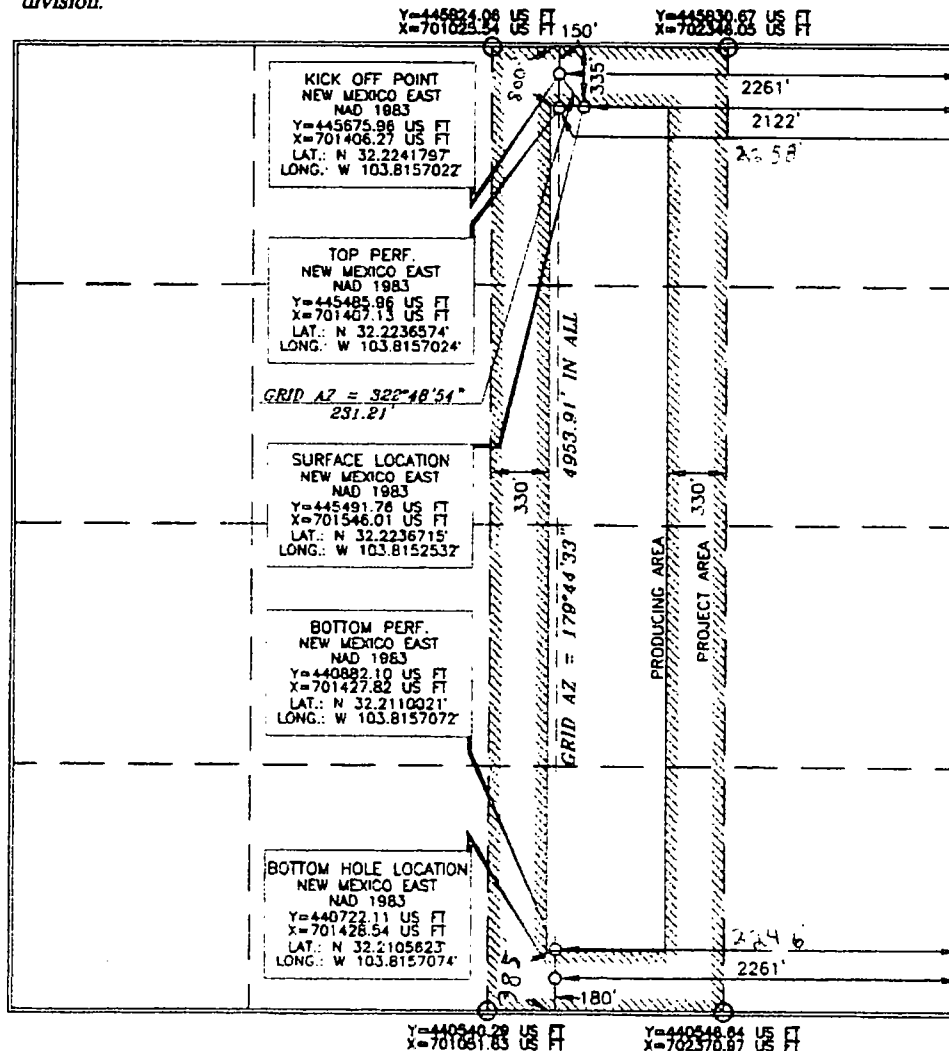
Surface Location

UL or lot no.	Section	Township	Range	Lot 1d	Feet from the	North/South line	Feet from the	East/West line	County
B	18	24 SOUTH	31 EAST, N.M.P.M.		335'	NORTH	2122'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1d	Feet from the	North/South line	Feet from the	East/West line	County
0	18	24 SOUTH	31 EAST, N.M.P.M.		168' 192'	SOUTH	2261' 2246'	EAST	EDDY
Dedicated Acres 160	Joint or Infill Y	Consolidation Code	Order No.	TP 800 FNL 2258 FEL BP 385 FSL 2246 FEL					

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.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and accurate to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sarah Mitchell 12/4/17
Signature Date
Printed Name
E-mail Address
sarah-mitchell@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was located 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.

ERRY J ASE
15079
SEPTEMBER 29, 2016
Date of Survey
Signature and Seal
Professional Surveyor

Jimmy Olsh 10/24/2016
Certificate Number 15079

WO# 160929WL-d-XY (XA)

OXY

PATTON MDPI 18 FED #23H

H&P #639

8/19/2017

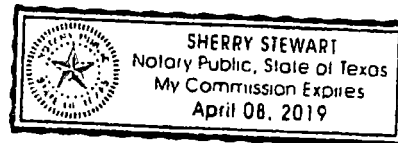
This survey is correct to the best of my knowledge and is supported by actual field data.

Kolton E. Cotton

Notarized this date 27 of October, 2017.

Sherry Stewart

Notary Signature
County of Midland
State of Texas



Scientific Drilling

The Company's Practice In Wellbore Placement

SURVEY REPORT

PATTON MDP1 18 FED #23H

KEEPER GYRO SURVEY

CUSTOMER OXY
PROJECT Patton MDP1 18 Fed #23H
FIELD Bone Springs

SDI JOB NO. OP.003633
SDI DISTRICT Midland
SDI KIT/UNIT

SITE INFORMATION

Site Name Patton MDP1 18 Fed #23H
Lat/Long 32.2236715° N, 103.8152532° W
Northing 445,491.76 ft
Easting 701,546.01 ft

Section
Township
Range

MAP INFORMATION

North Reference Grid North
Grid Correction -0.28 deg
System US State Plane 1983
Datum North American Datum 1983 (GRS 1980)
Map Zone New Mexico East: 3001

**WELL INFORMATION**

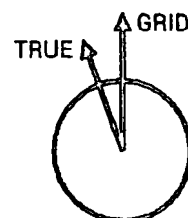
Lat/Long 32.2236715° N, 103.8152532° W
Northing 445,491.76 ft
Easting 701,546.01 ft
UWI 30-015-44316

DEPTH AND ELEVATION REFERENCE

Ground Level 3532 ft above Mean Sea Level
Reference Datum KB
Reference Height 26.5 ft above G.L.
Reference Elevation 3558.5 ft

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 181.41°
Calculation Method Minimum Curvature

**LOCAL GRAVITY REFERENCE INFORMATION**

Local Gravity 998.488 mG [computed]
True to Grid subtract 0.28°

WELL NOTES**OPERATORS**

Grayson Wegner, Jeff Loyd

SDI Operator Name (Printed)

SIGNATURE

DATE

Scientific Drilling

© 2007 Scientific Drilling International

07/19/2007 7:02 PM Central English Time

Page 1 of 3

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	COURSE LENGTH
ft	deg	deg	ft	ft	ft	ft	*/100ft	ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
76.00	0.12	37.88	76.00	-0.06	0.06	0.05	0.15	76.00
163.00	0.23	53.71	163.00	-0.24	0.23	0.24	0.14	87.00
255.00	0.25	62.31	255.00	-0.45	0.44	0.57	0.05	92.00
288.00	0.24	60.93	288.00	-0.52	0.51	0.70	0.05	33.00
350.00	0.19	69.30	350.00	-0.63	0.60	0.91	0.09	62.00
412.00	0.12	86.97	412.00	-0.67	0.64	1.07	0.14	62.00
473.00	0.10	145.52	473.00	-0.63	0.60	1.16	0.18	61.00
535.00	0.14	163.09	535.00	-0.51	0.48	1.22	0.08	62.00
595.00	0.17	164.24	595.00	-0.36	0.33	1.26	0.05	60.00
656.00	0.22	157.52	656.00	-0.16	0.13	1.33	0.08	61.00
718.00	0.23	151.71	718.00	0.05	-0.09	1.43	0.05	62.00
779.00	0.26	155.64	779.00	0.29	-0.32	1.55	0.06	61.00
841.00	0.28	158.05	841.00	0.55	-0.59	1.66	0.03	62.00
901.00	0.31	168.15	900.99	0.84	-0.88	1.75	0.10	60.00
991.00	0.34	173.98	990.99	1.34	-1.38	1.83	0.05	90.00
1082.00	0.40	173.66	1081.99	1.92	-1.97	1.89	0.07	91.00
1172.00	0.46	172.90	1171.99	2.59	-2.64	1.97	0.07	90.00
1262.00	0.53	170.90	1261.99	3.36	-3.41	2.08	0.08	90.00
1352.00	0.56	169.02	1351.98	4.20	-4.26	2.23	0.04	90.00
1442.00	0.59	169.01	1441.98	5.08	-5.14	2.41	0.03	90.00
1532.00	0.63	169.39	1531.97	6.02	-6.08	2.58	0.05	90.00
1622.00	0.69	167.09	1621.97	7.02	-7.10	2.80	0.07	90.00
1713.00	0.71	164.37	1712.96	8.09	-8.17	3.07	0.05	91.00
1804.00	0.72	160.80	1803.95	9.17	-9.25	3.41	0.05	91.00
1899.00	0.79	158.87	1898.94	10.33	-10.43	3.84	0.08	95.00
1993.00	0.86	159.09	1992.93	11.58	-11.69	4.33	0.08	94.00
2088.00	0.92	172.11	2087.92	13.00	-13.12	4.69	0.22	95.00
2183.00	0.97	168.99	2182.91	14.53	-14.66	4.95	0.08	95.00
2277.00	0.98	166.19	2276.90	16.08	-16.22	5.29	0.05	94.00
2372.00	0.94	169.79	2371.88	17.63	-17.78	5.62	0.08	95.00
2467.00	0.84	179.27	2466.87	19.09	-19.24	5.77	0.19	95.00

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	COURSE LENGTH
ft	deg	deg	ft	ft	ft	ft	"/100ft	ft
2561.00	0.77	179.05	2560.86	20.42	-20.56	5.79	0.07	94.00
2656.00	0.72	185.15	2655.85	21.65	-21.80	5.75	0.10	95.00
2751.00	0.74	194.23	2750.85	22.85	-22.99	5.54	0.12	95.00
2845.00	0.72	200.22	2844.84	24.00	-24.13	5.19	0.09	94.00
2940.00	0.70	204.29	2939.83	25.09	-25.22	4.74	0.06	95.00
3035.00	0.65	211.44	3034.82	26.09	-26.20	4.23	0.10	95.00
3129.00	0.60	218.59	3128.82	26.95	-27.04	3.64	0.10	94.00
3224.00	0.62	220.03	3223.81	27.75	-27.83	3.00	0.03	95.00
3319.00	0.66	221.03	3318.81	28.57	-28.64	2.31	0.04	95.00
3413.00	0.69	216.36	3412.80	29.45	-29.50	1.62	0.07	94.00
3508.00	0.56	211.25	3507.80	30.32	-30.35	1.04	0.16	95.00
3603.00	0.72	173.19	3602.79	31.31	-31.35	0.87	0.47	95.00
3698.00	1.09	157.39	3697.78	32.73	-32.77	1.29	0.46	95.00
3792.00	1.20	152.16	3791.76	34.40	-34.47	2.09	0.17	94.00
3887.00	1.70	150.51	3886.73	36.49	-36.58	3.25	0.53	95.00
3982.00	2.36	153.38	3981.67	39.42	-39.55	4.82	0.69	95.00
4076.00	2.90	151.98	4075.57	43.20	-43.38	6.80	0.58	94.00
4171.00	2.80	149.63	4170.45	47.26	-47.50	9.10	0.16	95.00
4245.00	2.76	149.23	4244.36	50.30	-50.59	10.93	0.06	74.00

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

October 5, 2017

OXY USA INC.

Re:

CLIENT: OXY USA INC.
WELL: Patton MDP1 18 Federal 23H
FIELD: Cotton Draw; Bone Spring

32.22367 -103.81525

RIG: H&P 639
COUNTY: Eddy
API NO: 30-015-44316
JOB NO: 17MLD1940

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Rasheed Atanda FE	Patton MDP1 18 Federal 23H Original Hole	3982.00 Ft to 14879.00 Ft	August 14, 2017 to September 25, 2017	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Cody Nelms
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:

32.22367 -103.81525

I, Rasheed Atanda certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 14, 2017 through September 25, 2017. conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 3982.00 feet to a depth of 14879.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA INC. for the Patton MDP1 18 Federal 23H Well (Original Hole) API No. 30-015-44316 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Rasheed Atanda
FE

R. Atanda

Subscribed and Sworn to before me this 5th day of October (month) 2017 (yr)

My Commission expires:

12-20-2020

J. Allemand
Notary Public

Adams County Colorado
(County State)

JENNIFER ALLEMAND
Notary Public
State of Colorado
(signature) ID # 20164047962
My Commission Expires 12-20-2020

Oxy Patton MDP1 18 Federal 23H Gyro+MWD 0-14,917' Survey Geodetic Report

(Def Survey)

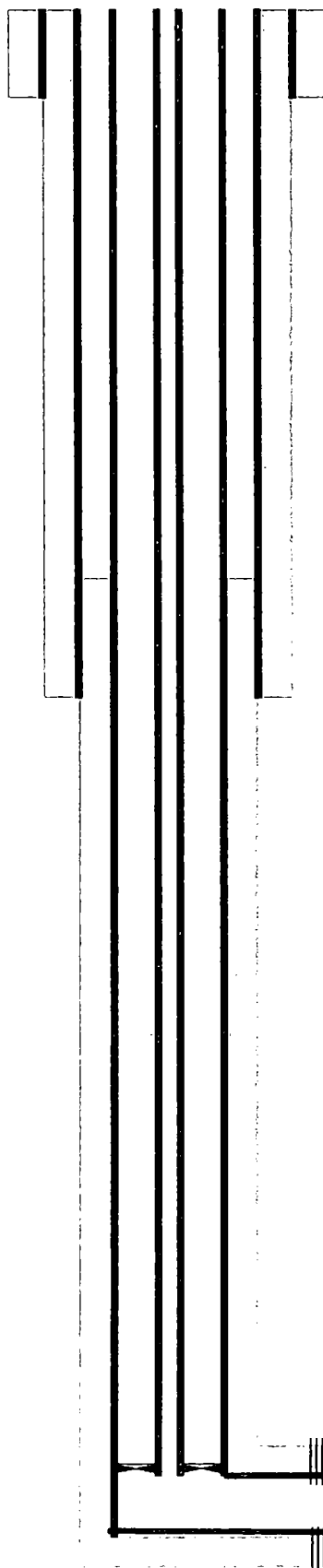


Report Date: September 25, 2017 12:30 PM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Patton MDP1 18 Federal 23H / Oxy Patton MDP1 18 Federal 23H Well: Oxy Patton MDP1 18 Federal 23H Borehole: Original Borehole UWI / API#: Unknown / Unknown Survey Name: Oxy Patton MDP1 18 Federal 23H Gyro+MWD 0-14,917' Survey Date: August 15, 2017 Tort / AMD / DD1 / ERD Ratio: 224 129' / 5374 894 ft / 6.242 / 0.522 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone US Feet Location Lat / Long: N 32° 13' 25.21749" W 103° 48' 54.91157" Location Grid N/E Y/X: N 445491 760 NUS E 701546 010 NUS CRS Grid Convergence Angle: 0.2763° Grid Scale Factor: 0.99993849 Version / Patch: 2 10 544 0	Survey / DLS Computation: Minimum Curvature - Lubinski Vertical Section Azimuth: 181.411° (Grid North) Vertical Section Origin: 0.000 ft 0.000 h TVD Reference Datum: RKB=26.5' TVD Reference Elevation: 3559.300 ft above MSL Seabed / Ground Elevation: 3532.800 ft above MSL Magnetic Declination: 6.988° Total Gravity Field Strength: 998.4278mgm (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48062.349 nT Magnetic Dip Angle: 59.993° Declination Date: September 15, 2017 Magnetic Declination Model: HDGM 2017 North Reference: Grid North Grid Convergence Used: 0.2763° Total Corr Mag North - Grid North: 6.6915° Local Coord Referenced To: Well Head	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSECC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL RKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	445491.76	701546.01	N 32 13 25.22	W 103 48 54.91
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445491.76	701546.01	N 32 13 25.22	W 103 48 54.91
	76.00	0.12	37.88	76.00	-0.04	0.04	0.03	0.24	445491.80	701546.04	N 32 13 25.22	W 103 48 54.91
	163.00	0.23	53.71	163.00	-0.22	0.22	0.23	0.14	445491.98	701546.24	N 32 13 25.22	W 103 48 54.91
	255.00	0.25	62.31	255.00	-0.43	0.42	0.56	0.04	445492.18	701546.57	N 32 13 25.22	W 103 48 54.91
	288.00	0.24	80.93	288.00	-0.50	0.48	0.68	0.04	445492.25	701546.69	N 32 13 25.22	W 103 48 54.90
	350.00	0.19	69.30	350.00	-0.61	0.59	0.89	0.10	445492.35	701546.90	N 32 13 25.22	W 103 48 54.90
	412.00	0.12	86.97	412.00	-0.65	0.62	1.05	0.14	445492.38	701547.06	N 32 13 25.22	W 103 48 54.90
	473.00	0.10	145.52	473.00	-0.61	0.58	1.14	0.18	445492.34	701547.15	N 32 13 25.22	W 103 48 54.90
	535.00	0.14	163.09	535.00	0.50	0.47	1.20	0.09	445492.23	701547.21	N 32 13 25.22	W 103 48 54.90
	595.00	0.17	164.24	595.00	-0.34	0.31	1.24	0.05	445492.07	701547.25	N 32 13 25.22	W 103 48 54.90
	656.00	0.22	157.52	656.00	-0.15	0.12	1.31	0.09	445491.88	701547.43	N 32 13 25.22	W 103 48 54.90
	718.00	0.23	151.71	718.00	0.07	-0.10	1.42	0.04	445491.68	701547.64	N 32 13 25.21	W 103 48 54.89
	779.00	0.26	155.64	779.00	0.30	0.34	1.53	0.06	445491.42	701547.84	N 32 13 25.21	W 103 48 54.89
	841.00	0.28	158.05	841.00	0.57	-0.61	1.65	0.04	445491.15	701547.66	N 32 13 25.21	W 103 48 54.89
	901.00	0.31	168.15	900.99	0.86	-0.90	1.73	0.10	445490.85	701547.74	N 32 13 25.21	W 103 48 54.88
	991.00	0.34	173.98	990.99	1.36	1.40	1.61	0.05	445490.36	701547.62	N 32 13 25.20	W 103 48 54.89
	1082.00	0.40	173.66	1081.99	1.94	-1.99	1.86	0.07	445489.77	701547.89	N 32 13 25.20	W 103 48 54.85
	1172.00	0.46	172.90	1171.99	2.61	-2.66	1.95	0.07	445489.10	701547.68	N 32 13 25.19	W 103 48 54.85
	1262.00	0.53	170.90	1261.99	3.38	3.43	2.08	0.08	445488.33	701548.07	N 32 13 25.18	W 103 48 54.85
	1352.00	0.56	169.02	1351.98	4.22	4.27	2.21	0.04	445487.49	701548.22	N 32 13 25.18	W 103 48 54.89
	1442.00	0.59	169.01	1441.98	5.10	-5.16	2.35	0.03	445486.60	701548.40	N 32 13 25.17	W 103 48 54.88
	1532.00	0.62	169.39	1531.97	6.03	6.10	2.57	0.04	445485.66	701548.58	N 32 13 25.16	W 103 48 54.88
	1622.00	0.69	167.06	1621.97	7.04	7.11	2.78	0.07	445484.65	701548.79	N 32 13 25.15	W 103 48 54.88
	1713.00	0.71	164.37	1712.96	8.11	8.19	3.05	0.04	445483.57	701549.06	N 32 13 25.14	W 103 48 54.88
	1804.00	0.72	160.80	1803.95	9.19	-9.27	3.39	0.05	445482.49	701549.40	N 32 13 25.13	W 103 48 54.87
	1899.00	0.79	156.87	1898.94	10.35	10.45	3.82	0.08	445481.31	701549.63	N 32 13 25.11	W 103 48 54.87
	1993.00	0.86	159.09	1992.93	11.60	-11.71	4.31	0.07	445480.05	701550.32	N 32 13 25.10	W 103 48 54.86
	2088.00	0.92	172.11	2087.92	13.01	13.13	4.67	0.22	445478.63	701550.88	N 32 13 25.09	W 103 48 54.86
	2183.00	0.97	166.95	2182.91	14.55	14.68	4.93	0.08	445477.08	701550.94	N 32 13 25.07	W 103 48 54.86
	2277.00	0.98	166.19	2276.90	16.11	16.24	5.27	0.05	445475.52	701551.26	N 32 13 25.06	W 103 48 54.85
	2372.00	0.94	169.79	2371.86	17.65	17.80	5.60	0.08	445473.97	701551.61	N 32 13 25.04	W 103 48 54.85
	2467.00	0.84	176.27	2466.87	19.11	19.26	5.75	0.19	445472.50	701551.76	N 32 13 25.03	W 103 48 54.85
	2561.00	0.77	179.05	2560.86	20.43	20.58	5.77	0.07	445471.16	701551.78	N 32 13 25.01	W 103 48 54.85
	2656.00	0.72	165.15	2655.85	21.60	21.81	5.73	0.10	445469.95	701551.74	N 32 13 25.00	W 103 48 54.85
	2751.00	0.74	184.23	2750.85	22.86	23.00	5.52	0.12	445468.76	701551.52	N 32 13 24.99	W 103 48 54.85
	2845.00	0.72	200.22	2844.84	24.01	24.14	5.17	0.08	445467.62	701551.18	N 32 13 24.98	W 103 48 54.85
	2940.00	0.70	204.29	2939.83	25.11	-25.23	4.72	0.06	445466.53	701550.73	N 32 13 24.97	W 103 48 54.86
	3035.00	0.65	211.44	3034.82	26.11	26.22	4.20	0.10	445465.54	701550.21	N 32 13 24.96	W 103 48 54.86
	3129.00	0.60	218.56	3128.82	26.96	27.06	3.62	0.10	445464.70	701549.63	N 32 13 24.95	W 103 48 54.87
	3224.00	0.62	220.03	3223.81	27.76	27.84	2.98	0.03	445463.92	701548.99	N 32 13 24.94	W 103 48 54.88
	3318.00	0.66	221.03	3318.01	28.58	28.65	2.29	0.04	445463.11	701548.30	N 32 13 24.93	W 103 48 54.85
	3413.00	0.69	216.36	3412.80	29.47	-29.51	1.60	0.07	445462.25	701547.61	N 32 13 24.93	W 103 48 54.85
	3508.00	0.56	211.25	3507.80	30.34	30.37	1.02	0.15	445461.39	701547.03	N 32 13 24.92	W 103 48 54.90
	3603.00	0.72	173.19	3602.76	31.33	31.36	0.85	0.47	445460.40	701546.86	N 32 13 24.91	W 103 48 54.90
	3698.00	1.09	157.35	3697.78	32.75	32.79	1.27	0.47	445459.97	701547.26	N 32 13 24.89	W 103 48 54.90
	3792.00	1.20	152.16	3791.76	34.42	34.48	2.01	0.16	445457.26	701548.08	N 32 13 24.88	W 103 48 54.95
	3887.00	1.70	150.51	3886.73	36.50	36.59	3.23	0.53	445455.17	701549.24	N 32 13 24.86	W 103 48 54.88
	3982.00	2.36	153.38	3981.67	39.44	39.57	4.80	0.70	445452.20	701550.01	N 32 13 24.83	W 103 48 54.86
	4078.00	2.80	151.98	4075.57	43.21	-43.39	6.78	0.58	445448.37	701552.79	N 32 13 24.79	W 103 48 54.84
	4171.00	2.80	149.63	4170.45	47.28	-47.52	9.08	0.16	445444.24	701555.09	N 32 13 24.75	W 103 48 54.81
	4265.00	2.75	149.23	4264.36	50.32	50.61	10.91	0.06	445441.15	701556.92	N 32 13 24.72	W 103 48 54.79
	4401.00	2.06	148.08	4400.16	58.76	57.14	14.05	0.07	445434.62	701560.90	N 32 13 24.65	W 103 48 54.74
	4550.00	0.13	299.22	4549.10	60.60	61.04	17.15	1.57	445430.73	701563.20	N 32 13 24.61	W 103 48 54.71
	4779.00	0.11	252.96	4778.10	60.55	-60.99	18.63	0.05	445430.78	701562.84	N 32 13 24.61	W 103 48 54.72
	4966.00	0.11	219.05	4967.10	60.75	61.18	16.55	0.03	445430.59	701562.55	N 32 13 24.61	W 103 48 54.72
	5156.00	0.06	152.14	5155.10	60.96	61.38	16.50	0.07	445430.38	701562.51	N 32 13 24.61	W 103 48 54.72
	5251.00	0.00	315.45	5250.10	60.89	-61.42	16.54	0.06	445430.35	701562.55	N 32 13 24.61	W 103 48 54.72
	5345.00	0.06	292.11	5344.10	60.90	61.40	16.45	0.06	445430.37	701562.50	N 32 13 24.61	W 103 48 54.72
	5440.00	0.06	327.78	5439.10	60.86	-61.32	16.42	0.06	445430.45	701562.43	N 32 13 24.61	W 103 48 54.72
	5630.00	0.06	200.66	5629.10	60.86	-61.28	16.32	0.07	445430.48	701562.33	N 32 13 24.61	W 103 48 54.72
	5819.00	0.00	52.46	5818.10	60.95	-61.37	16.27	0.03	445430.40	701562.29	N 32 13 24.61	W 103 48 54.73
	6008.00	0.13	265.73	6007.10	60.67	-61.38	16.06	0.07	445430.38	701562.07	N 32 13 24.61	W 103 48 54.73
	6103.00	0.16	204.41	6102.10	61.12	-61.52	15.89	0.17	445430.24	701561.90	N 32 13 24.61	W 103 48 54.73
	6198.00	0.13	217.77	6197.10	61.34	-61.75	15.76	0.06	445430.01	701561.77	N 32 13 24.61	W 103 48 54.73
	6292.00	0.34	218.91	6291.10	61.65	-62.05	15.52	0.22	445429.71	701561.63	N 32 13 24.60	W 103 48 54.73
	6387.00	0.28	216.09	6386.10	62.06	-62.46	15.21	0.07	445429.31	701561.22	N 32 13 24.60	W 103 48 54.74
	6482.00	0.34	189.28	6481.10	62.53	-62.92	15.03	0.16	445428.84	701561.04	N 32 13 24.59	W 103 48 54.74
	6571.00	0.45	176.87	6570.09	63.22	-64.21	15.05	0.06	445427.55	701561.06	N 32 13 24.58	W 103 48 54.74
	6766.00	0.44	146.96	6765.05	64.49	-64.68	15.31	0.19	445426.88	701561.32	N 32 13 24.57	W 103 48 54.74
	6953.00	0.51	163.37	6952.08	65.89	-65.29	15.51	0.20	445425.47	701561.52	N 32 13 24.56	W 103 48 54.73
	7048.00	0.48	182.38	7047.02	66.70	-67.05	15.33	0.03	445424.67	701561.34	N 32 13 24.55	W 103 48 54.74
	7146.00	0.50	192.77	7145.00	67.52	-67.91	15.15	0.02	445423.85	701561.16	N 32 13 24.54	W 103 48 54.74
	7241.00	0.56	193.37	7240.07	68.38	-68.77	14.95	0.06	445423.00	701560.96	N 32 13 24.54	W 103 48 54.74
	7336.00	0.56	185.55	7335.07	69.30	-69.66	14.66	0.08	445422.08	701560.81	N 32 13 24.53	W 103 48 54.74
	7431.00	0.48										

Comments	MD	hnd	Adm Off	TYD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
	7715.00	0.20	214.16	7714.06	72.11	-72.47	14.07	0.30	445418.29	701560.00	N 32 13 24.50	W 103 48 54.75
	7810.00	0.20	320.16	7809.06	72.11	-72.47	13.89	0.35	445419.29	701559.00	N 32 13 24.50	W 103 48 54.75
	7804.00	2.24	283.47	7803.03	72.59	-73.11	12.02	2.24	445418.66	701558.00	N 32 13 24.51	W 103 48 54.76
	7859.00	5.80	250.11	7857.79	71.95	-73.11	5.69	4.33	445418.66	701551.00	N 32 13 24.51	W 103 48 54.65
	8094.00	8.15	248.69	8092.08	77.51	-77.41	5.00	2.51	445414.36	701541.01	N 32 13 24.41	W 103 48 55.10
	8231.00	10.34	233.91	8229.24	83.50	-82.56	2.92	1.87	445410.46	701528.98	N 32 13 24.40	W 103 48 55.10
	8231.00	10.34	233.91	8229.24	83.50	-82.56	2.92	1.87	445410.46	701528.98	N 32 13 24.40	W 103 48 55.10
	8231.00	10.34	233.91	8229.24	83.50	-82.56	2.92	1.87	445410.46	701528.98	N 32 13 24.40	W 103 48 55.10
	8431.00	8.05	319.27	8429.76	74.76	-74.76	56.00	3.23	445410.50	701478.98	N 32 13 24.61	W 103 48 55.26
	8510.00	11.22	323.20	8508.27	62.75	-46.37	56.00	3.23	445410.50	701478.98	N 32 13 24.61	W 103 48 55.26
	8510.00	11.22	323.20	8508.27	62.75	-46.37	56.00	3.23	445410.50	701478.98	N 32 13 24.61	W 103 48 55.26
	8610.00	11.22	323.20	8608.53	47.55	-46.37	56.00	3.23	445410.50	701478.98	N 32 13 24.61	W 103 48 55.26
	8705.00	11.56	330.81	8703.70	29.56	-22.82	78.45	2.43	445404.15	701465.00	N 32 13 25.14	W 103 48 55.84
	8705.00	11.56	330.81	8703.70	29.56	-22.82	78.45	2.43	445404.15	701465.00	N 32 13 25.14	W 103 48 55.84
	8894.00	14.01	336.56	8891.82	-12.55	-7.84	80.71	2.72	445408.02	701465.00	N 32 13 25.14	W 103 48 55.84
	8894.00	14.01	336.56	8891.82	-12.55	-7.84	80.71	2.72	445408.02	701465.00	N 32 13 25.14	W 103 48 55.84
	8903.00	17.08	334.60	8900.03	-39.25	4.31	83.20	3.04	445403.07	701462.00	N 32 13 25.63	W 103 48 55.86
	8903.00	17.08	334.60	8900.03	-39.25	4.31	83.20	3.04	445403.07	701462.00	N 32 13 25.63	W 103 48 55.86
	9178.00	14.80	346.41	9154.10	-81.97	60.94	-87.81	2.60	445366.69	701455.00	N 32 13 26.06	W 103 48 55.93
	9273.00	16.86	340.22	9241.48	-117.16	94.31	-93.89	2.40	445366.69	701455.00	N 32 13 26.06	W 103 48 55.93
	9372.00	15.79	340.32	9341.70	-152.94	118.64	-96.32	2.31	445311.30	701441.96	N 32 13 26.41	W 103 48 56.00
	9462.00	13.26	342.85	9442.66	-165.87	168.63	-110.27	3.01	445366.36	701437.75	N 32 13 26.69	W 103 48 56.18
	9557.00	6.34	312.94	9531.27	-178.10	162.65	-117.32	10.65	445371.91	701428.70	N 32 13 27.03	W 103 48 56.27
	9561.00	4.87	188.71	9541.05	-182.00	165.06	-122.16	11.57	445366.81	701428.70	N 32 13 26.86	W 103 48 56.32
	9746.00	15.86	178.08	9704.34	-127.41	130.40	-118.75	12.02	445322.15	701428.70	N 32 13 26.86	W 103 48 56.32
	9841.00	27.15	174.18	9782.60	-91.45	84.03	-116.08	5.52	445371.91	701428.70	N 32 13 26.86	W 103 48 56.32
	9835.00	32.20	176.57	9817.24	28.43	31.25	-114.27	11.97	445322.15	701428.70	N 32 13 26.86	W 103 48 56.32
	10020.00	46.59	180.59	10024.05	106.76	-30.29	-116.08	3.71	445322.15	701428.70	N 32 13 26.86	W 103 48 56.32
	10219.00	55.23	181.45	10204.89	186.12	-103.26	-116.32	9.12	445308.51	701431.74	N 32 13 24.91	W 103 48 56.24
	10313.00	60.03	182.43	10134.21	186.12	-103.26	-116.32	9.12	445308.51	701431.74	N 32 13 24.91	W 103 48 56.24
	10308.00	68.96	180.29	10175.07	271.75	-268.81	-122.62	8.44	445222.87	701432.46	N 32 13 22.56	W 103 48 56.35
	10505.00	72.72	184.45	10208.25	361.38	-336.32	-128.65	4.12	445133.46	701417.33	N 32 13 21.82	W 103 48 56.43
	10655.00	76.90	182.53	10264.17	507.84	-504.70	-137.59	3.01	444981.09	701408.43	N 32 13 20.23	W 103 48 56.54
	10749.00	83.96	186.32	10264.17	599.57	-596.71	-137.59	3.76	444895.09	701408.43	N 32 13 18.40	W 103 48 56.58
	10843.00	87.97	179.86	10271.76	687.62	-689.70	-138.94	4.12	444802.11	701408.43	N 32 13 18.40	W 103 48 56.58
	10843.00	87.97	179.86	10271.76	687.62	-689.70	-138.94	4.12	444802.11	701408.43	N 32 13 18.40	W 103 48 56.58
	11022.00	82.16	181.83	10268.67	801.56	-787.58	-140.37	4.55	444613.43	701408.43	N 32 13 16.53	W 103 48 56.60
	11022.00	82.16	181.83	10268.67	801.56	-787.58	-140.37	4.55	444613.43	701408.43	N 32 13 16.53	W 103 48 56.60
	11115.00	82.48	178.87	10285.63	1163.37	-1170.20	-148.73	3.08	444313.62	701408.43	N 32 13 15.59	W 103 48 56.60
	11115.00	82.48	178.87	10285.63	1163.37	-1170.20	-148.73	3.08	444313.62	701408.43	N 32 13 15.59	W 103 48 56.60
	11504.00	87.60	175.54	10287.32	1358.64	-1364.61	-151.32	2.67	444142.32	701414.70	N 32 13 11.87	W 103 48 56.70
	11504.00	87.60	175.54	10287.32	1358.64	-1364.61	-151.32	2.67	444142.32	701414.70	N 32 13 11.87	W 103 48 56.70
	11693.00	84.63	175.74	10279.06	1540.33	-1537.84	-162.08	1.83	443956.02	701425.74	N 32 13 10.01	W 103 48 56.72
	11693.00	84.63	175.74	10279.06	1540.33	-1537.84	-162.08	1.83	443956.02	701425.74	N 32 13 10.01	W 103 48 56.72
	11728.00	85.39	175.74	10279.06	1634.51	-1632.22	-162.08	0.80	443956.02	701425.74	N 32 13 10.01	W 103 48 56.72
	11728.00	85.39	175.74	10279.06	1634.51	-1632.22	-162.08	0.80	443956.02	701425.74	N 32 13 10.01	W 103 48 56.72
	11876.00	90.79	177.44	10294.32	1821.66	-1819.70	-162.08	3.01	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12070.00	92.31	178.01	10290.76	2010.17	-2008.45	-162.08	1.73	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12259.00	91.51	177.52	10284.09	2103.90	-2102.31	-162.08	0.55	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12259.00	91.51	177.52	10284.09	2103.90	-2102.31	-162.08	0.55	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12354.00	89.32	176.36	10282.82	2188.57	-2187.14	-162.08	1.12	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12354.00	89.32	176.36	10282.82	2188.57	-2187.14	-162.08	1.12	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12543.00	87.66	177.99	10281.85	2307.97	-2305.85	-162.08	0.87	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12543.00	87.66	177.99	10281.85	2307.97	-2305.85	-162.08	0.87	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12732.00	87.14	177.16	10278.61	2575.52	-2574.61	-162.08	0.97	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12732.00	87.14	177.16	10278.61	2575.52	-2574.61	-162.08	0.97	443827.17	701443.84	N 32 13 7.23	W 103 48 56.76
	12823.00	88.00	177.99	10281.85	2686.25	-2685.46	-162.08	1.99	442827.50	701481.36	N 32 12 58.65	W 103 48 55.81
	12823.00	88.00	177.99	10281.85	2686.25	-2685.46	-162.08	1.99	442827.50	701481.36	N 32 12 58.65	W 103 48 55.81
	13012.00	90.83	181.62	10282.82	2760.18	-2759.44	-162.08	4.28	442732.50	701471.28	N 32 12 57.92	W 103 48 55.87
	13012.00	90.83	181.62	10282.82	2760.18	-2759.44	-162.08	4.28	442732.50	701471.28	N 32 12 57.92	W 103 48 55.87
	13201.00	90.96	183.36	10286.37	3043.98	-3042.93	-162.08	0.23	442440.03	701459.09	N 32 12 54.18	W 103 48 56.02
	13201.00	90.96	183.36	10286.37	3043.98	-3042.93	-162.08	0.23	442440.03	701459.09	N 32 12 54.18	W 103 48 56.02
	13295.00	90.86	183.35	10285.28	3137.82	-3136.71	-162.08	0.01	442355.21	701459.09	N 32 12 53.24	W 103 48 56.15
	13295.00	90.86	183.35	10285.28	3137.82	-3136.71	-162.08	0.01	442355.21	701459.09	N 32 12 53.24	W 103 48 56.15
	13494.00	90.86	182.93	10283.79	3326.83	-3325.49	-162.08	0.31	442168.49	701444.94	N 32 12 52.32	W 103 48 56.28
	13494.00	90.86	182.93	10283.79	3326.83	-3325.49	-162.08	0.31	442168.49	701444.94	N 32 12 52.32	W 103 48 56.28
	13579.00	90.96	182.70	10282.17	3421.76	-3420.31	-162.08	0.48	441971.06	701439.11	N 32 12 50.45	W 103 48 56.35
	13579.00	90.96	182.70	10282.17	3421.76	-3420.31	-162.08	0.48	441971.06	701439.11	N 32 12 50.45	W 103 48 56.35
	13862.00	80.41	182.50	10278.56	3515.69	-3514.12	-168.91	0.34	441878.16	701439.11	N 32 12 48.71	W 103 48 56.48
	13862.00	80.41	182.50	10278.56	3515.69	-3514.12	-168.91	0.34	441878.16	701439.11	N 32 12 48.71	W 103 48 56.48
	14052.00	89.78	182.54	10274.02	3854.53	-3852.59	-128.59	0.23	441878.16	701439.11	N 32 12 48.71	W 103 48 56.48
	14052.00	89.78	182.54	10274.02	3854.53	-3852.59	-128.59	0.23	441878.16	701439.11	N 32 12 48.71	W 103 48 56.48
	14201.00	89.32	182.63	10278.56	4272.54	-4270.01	-134.16	0.81	441221.83	701404.44	N 32 12 44.09	W 103 48 56.82
	14201.00	89.32	182.63	10278.56	4272.54	-4270.01	-134.16	0.81	441221.83	701404.44	N 32 12 44.09	W 103 48 56.82
	14520.00	88.54	182.63	10278.56	4680.44	-4677.11	-111.46	3.49	440844.93	701434.94	N 32 12 38.24	W 103 48 56.47
	14520.00	88.54										

OXY USA Inc.
Patton MDP1 18 Federal 23H
API No. 30-015-44316



17-1/2" hole @ 665'
13-3/8" csg @ 655'
w/ 650sx-TOC-Surf Circ.

12-1/4" hole @ 4390'
9-5/8" csg @ 4380'
w/ 1350sx-TOC-Surf Circ.

8-1/2" hole @ 14917'
5-1/2" csg @ 14911'
w/ 1650sx-TOC-3830' Calc.

2-7/8" tbg & pkr @ 10033'

Perfs @ 10613-14721'

TD- 14917'M 10286"V

WEATHERFORD SLS

COMPANY: OXY USA, INC.
 WELL: PATTON MDP1 18 FEDERAL 23H
 LOCATION: 335' FNL & 2082' FEL SEC. 18, T-24S, R-31E
 COUNTY: EDDY STATE: NEW MEXICO
 GL: 3533.2' KB: 3559.7'
 Start Date 09/10/2017 End Date 09/28/2017
 Start Depth 4400' End Depth 14917'
 API NO: 300154431600000
 FILE: OXY-PATTON-MDP1-18-FEDERAL-23H.mtw
 LOGGERS: THOMAS L. RAWLS, CRAIG W. HARRIS
 GEOLOGIST: DENNIS LEE

Sand	Dolo	Lime	Chert	Anhydrite
Shale	Carb Sh	Salt	Granite	Siltstone
Coal	Bentonite	Granite Wash	Quartz Wash	
Carb Wash	Conglomerate	Cement		

ACCESSORIES

GLAUC'C	PYRITE	FOSSILS	OOLITES	FRACTURES

TG ----- 1 to 10000

C1 _____

C2 _____

C3 -----

IC4 _____

NC4 _____

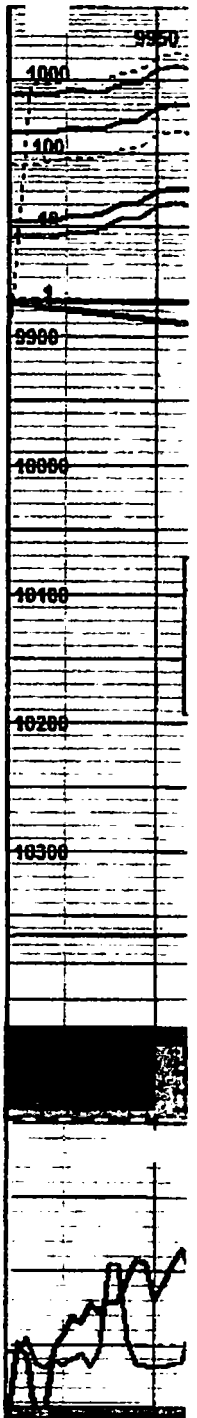
CUT (P F G)
 FLU 0-100% (P F G)
 POR (P F G)

Horz _____

Rop _____ 1 to 2.5

Gamma _____ 1 to 150

SLIDE



WEATHERFORD SLS

COMPANY: OXY USA, INC.
 WELL: PATTON MDP1 18 FEDERAL 23H
 LOCATION: 335' FNL & 2062' FEL SEC. 18, T-24S, R-31E
 COUNTY: EDDY STATE: NEW MEXICO
 GL: 3533.2' KB: 3559.7'
 Start Date 09/10/2017 End Date 09/28/2017
 Start Depth 4400' End Depth 14917'
 API NO: 300154431600000
 FILE: OXY-PATTON-MDP1-18-FEDERAL-23H.mlw
 LOGGERS: THOMAS L. RAWLS, CRAIG W. HARRIS
 GEOLOGIST: DENNIS LEE

Sand	Dolo	Lime	Chert	Anhydrite
Shale	Carb Sh	Salt	Granite	Siltstone
Coal	Bentonite	Granite Wash	Quartz Wash	
Carb Wash	Conglomerate	Cement		

ACCESSORIES

GLAUC'C	PYRITE	FOSSILS	OOLITES	FRACTURES
---------	--------	---------	---------	-----------

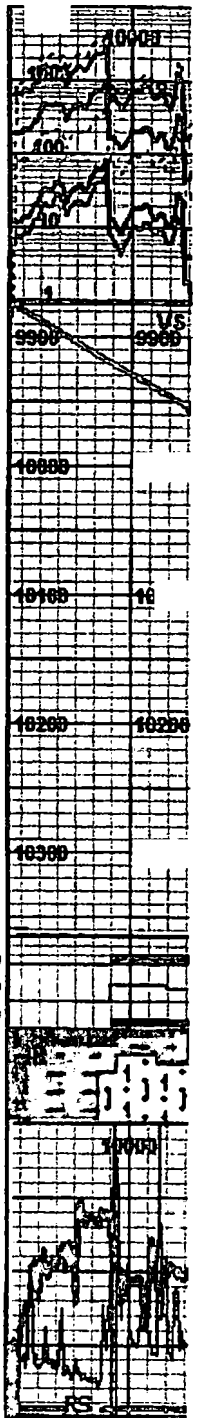
TG ----- 1 to 10000

C1 _____
 C2 _____
 C3 -----
 IC4 _____
 NC4 _____

CUT (P F G)
 FLU 0-100% (P F G)
 POR (P F G)

Horz _____
 Rop _____ 1 to 2.5
 Gamma _____ 1 to 150

SLIDE





Weatherford®

Surface Logging Systems

10000 Pilot/P.O. Box 80531
Midland, TX/Midland, TX
79708/79708
432.561.8892 Main
432.561.8895 Fax

Logging Personnel:

THOMAS L. RAWLS

CRAIG W. HARRIS

Unit No.: SLS - 078

Rig: H&P 639

Filename: OXY-PATTON-MDP1-18-FEDERAL-23H.mlw

COMPANY: OXY USA, INC.

WELL: PATTON MDP1 18 FEDERAL 23H

FIELD: SAND DUNES MDP1

COUNTY: EDDY STATE: NEW MEXICO

LOCATION: 335' FNL & 2062' FEL, SEC. 18, T-24S, R-31E

Spud Date: 08/17/2017

Started: 09/10/2017 At: 4400'

Ended: 09/28/2017 At: 14917'

Api No.: 300154431600000

G.L.: 3533.2'

K.B: 3559.7'

Geologist: DENNIS LEE

Abbreviations:

NB...New Bit	DST...Drill Stem Test
CO...Circ Out	DS...Directional Survey
NR...No Returns	CG...Connection gas
TG...Trip Gas	LAT...Logged After Trip
WOB...Wt on Bit	PP...Pump Pressure
RPM...Rev/Min	SPM...Strokes/Min
SG...Survey Gas	DTG...Down Time Gas

Mud Data

Lithology Symbols:

	Anhydrite		Salt		Granite
	Siltstone		Chert		Sandstone
	Dolomite		Conglomerate		Limestone
	Coal		Shale		Bentonite
	Carb Shale		Granite Wash		Quartz Wash
	Red Sh		Org Sh		Green Sh
	Cust Sh1		Cust Sh2		Cust Sh3
	Cust Sh4		Cust Sh5		Cust Sh6

Gas Chromatograph Analysis:

TG	-----
C1	-----
C2	-----
C3	-----
IC4	-----
NC4	-----
IC5	-----
NC5	-----



Weatherford²

Surface Logging Systems

10000 Pilot/P.O. Box 80531
Midland, TX/Midland, TX
79706/79708
432.561.8892 Main
432.561.8895 Fax

COMPANY: OXY USA, INC.

WELL: PATTON MDP1 18 FEDERAL 23H

FIELD: SAND DUNES MDP1

COUNTY: EDDY STATE: NEW MEXICO

LOCATION: 335' FNL & 2062' FEL, SEC. 18, T-24S, R-31E

Spud Date: 08/17/2017

Logging Personnel:

THOMAS L. RAWLS

CRAIG W. HARRIS

Unit No.: SLS - 078

Rig: H&P 639

Started: 09/10/2017 At: 4400'

Ended: 09/28/2017 At: 14917'

Api No.: 300154431800000

G.L.: 3533.2'

K.B: 3559.7'

Filename: OXY-PATTON-MDP1-18-FEDERAL-23H.mlw

Geologist: DENNIS LEE

Abbreviations:

NB...New Bit	DST...Drill Stem Test
CO...Circ Out	DS...Directional Survey
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TG...Trip Gas	LAT...Logged After Trip
WOB...Wt on Bit	PP...Pump Pressure
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Mud Data

Lithology Symbols:

	Anhydrite		Salt		Granite
	Siltstone		Chert		Sandstone
	Dolomite		Conglomerate		Limestone
	Coal		Shale		Bentonite
	Carb Shale		Granite Wash		Quartz Wash
	Red Sh		Org Sh		Green Sh
	Cust Sh1		Cust Sh2		Cust Sh3
	Cust Sh4		Cust Sh5		Cust Sh6

Gas Chromatograph Analysis:

TG	-----
C1	-----
C2	-----
C3	-----
IC4	-----
NC4	-----
IC5	-----
NC5	-----