Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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 page 2

5. Lease Serial No.
NMNM57273

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
PALLADIUM MDP1 7-6 FEDERAL COM 5H

2. Name of Operator
OXY USA INC.
Contact: JANA MENDIOLA
E-Mail: janalyn_mendiola@oxy.com

9. API Well No.
30-015-44294

3a. Address
P.O. BOX 50250
MIDLAND, TX 79710

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

10. Field and Pool or Exploratory Area
COTTON DRAW; BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T24S R31E SESE 293FSL 592FEL
32.225398 N Lat, 103.812421 W Lon

11. County or Parish, State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

RUPU 10/12/17, RIH & clean out to PBTD, pressure test csg to 9800# for 30 min, good test. RIH & perf @ 19979-19977, 19927-19770, 19721-19564, 19514-19357, 19307-19150, 19096-18945, 18894-18737, 18687-18530, 18481-18324, 18274-18120, 18067-17910, 17860-17703, 17654-17497, 17450-17290, 17240-17083, 17034-16877, 16824-16670, 16620-16463, 16410-16257, 16207-16050, 16000-15843, 15794-15637, 15587-15430, 15380-15223, 15174-15020, 14967-14810, 14760-14603, 14553-14396, 14349-14190, 14140-13986, 13933-13776, 13727-13570, 13520-13363, 13317-13156, 13107-12946, 12900-12743, 12693-12536, 12487-12334, 12280-12123, 12074-11916, 11867-11710, 11658-11503, 11453-11296, 11247-11090, 11036-10887, 10838-10687, 10639-10488, 10439-10291, 10242-10094' Total 1960 holes. Frac in 49 stages w/ 18975852g Slick Water + 60278g 15% HCl acid w/ 19686389# sand, RD Schlumberger 11/4/17. RIH & clean out to PBTD @ 19998', flow to clean up and test well for potential.

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 08 2018
RECEIVED

JC 3-8-18
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #405011 verified by the BLM Well Information System
For OXY USA INC., sent to the Carlsbad

Name *(Printed/Typed)* DAVID STEWART — Title SR. REGULATORY ADVISOR

Signature (Electronic Submission) — Date 02/20/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved By _____ Title _____ Date MAR 1 2018

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

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☑ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44294	13367	Cotton Draw; Bone Spring

Property Code	Property Name	Well Number
317687	PALLADIUM MDP1 "7-6" FEDERAL COM	5H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3525.4'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	24 SOUTH	31 EAST, N.M.P.M.		293'	SOUTH	592'	EAST	EDDY

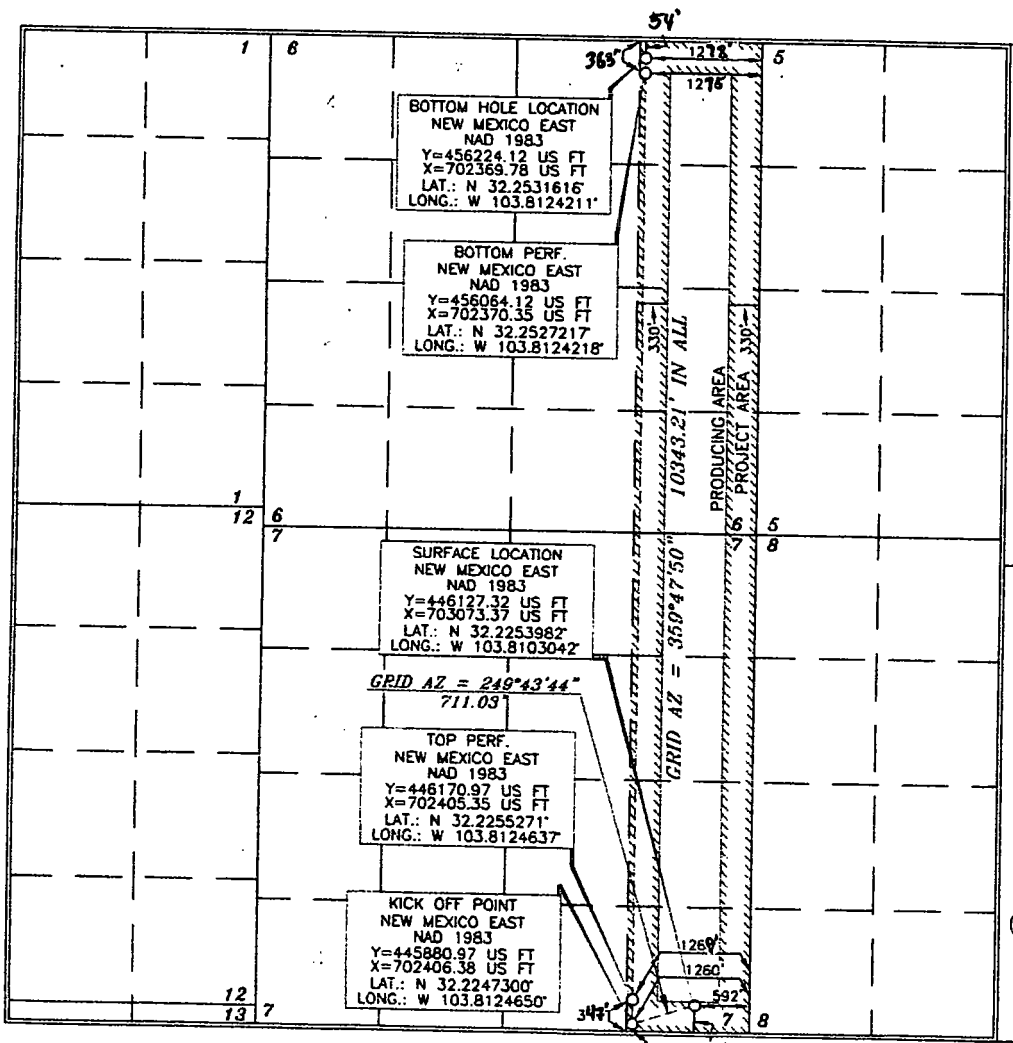
Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	24 SOUTH	31 EAST, N.M.P.M.		~~100'~~ 54	NORTH	~~1200'~~ 1278	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320.22	Y		-NSL-7549

BP- 363 FNL 1275 FEL
TP- 347 FSL 1269 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 complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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.

Signature — Date: 11/13/17

Jana Mendiola
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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.

JERRY J. ASEL
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

JUNE 7, 2016
Date of Survey

Signature and Seal of Professional Surveyor

Jerry J. Asel 9/24/2016
Certificate Number 15079

WO# 160607WL-a (Rev. A) (KA)

Schlumberger

OXY

Borehole: Original Borehole | **Well:** Oxy Palladium MDP1 7-6 Federal Com 5H | **Field:** NM Eddy County (NAD 83) | **Structure:** Oxy Palladium MDP1 7-6 Federal Com 5H

Gravity & Magnetic Parameters
Model: HDGM 2017 Dip: 59.953° Date: 19-Sep-2017
MagDec: 6.964° FS: 48092.378nT Gravity FS: 998.429mgn (9.80665 Based)

Surface Location (NAD83 New Mexico State Plane, Eastern Zone, US Feet)
Lat: N 32 13 31.43 Northing: 448127.32flUS Grid Conv: 0.2789°
Long: W 103 48 37.10 Easting: 703073.37flUS Scale Fact: 0.99993305

Miscellaneous
Slot: MDP1 7-6 Federal TVD Ref.: RKB=26.5'@3551.8ft above MSL)
Plan: Oxy Palladium MDP1 7-6 Federal Com 5H REV2 LBN 18Sep17

Surface Location

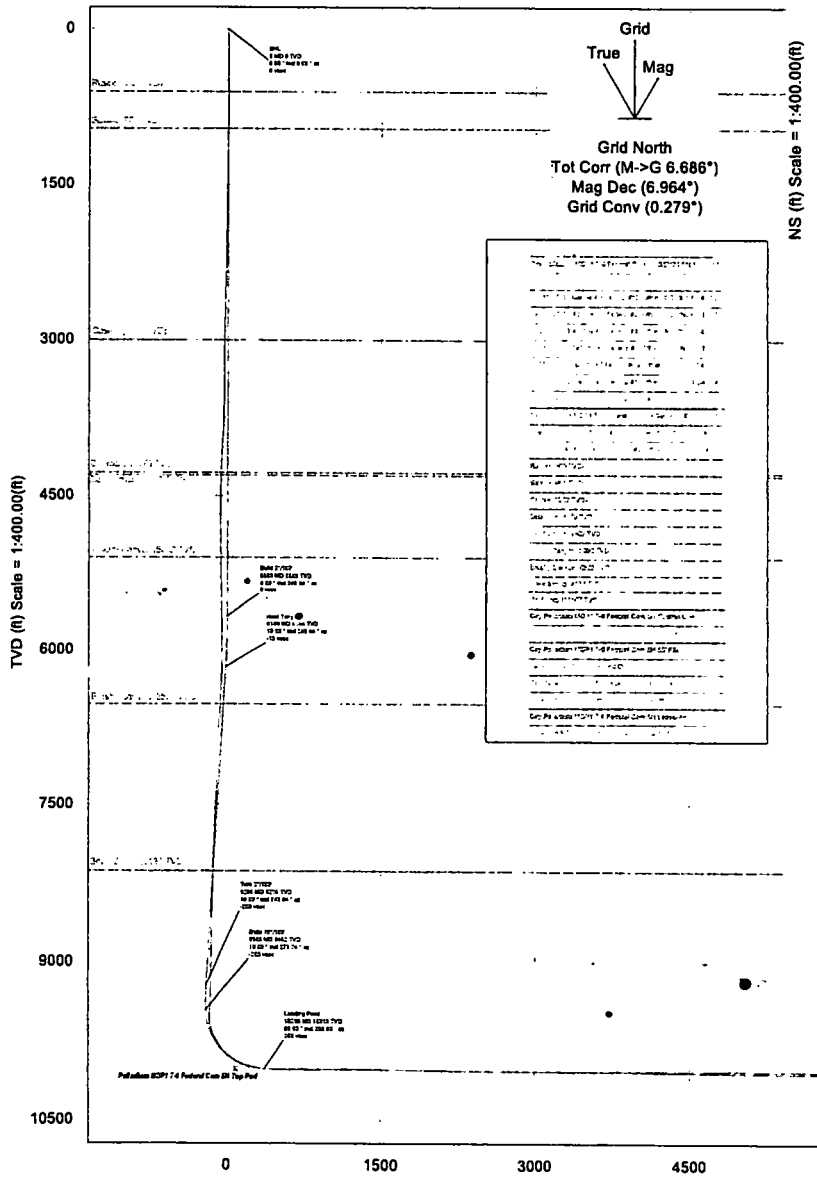
Northing 448127.32 Easting 703073.37 Latitude N 32 13 31.43 Longitude W 103 48 37.10 VSec Azimuth 356.01

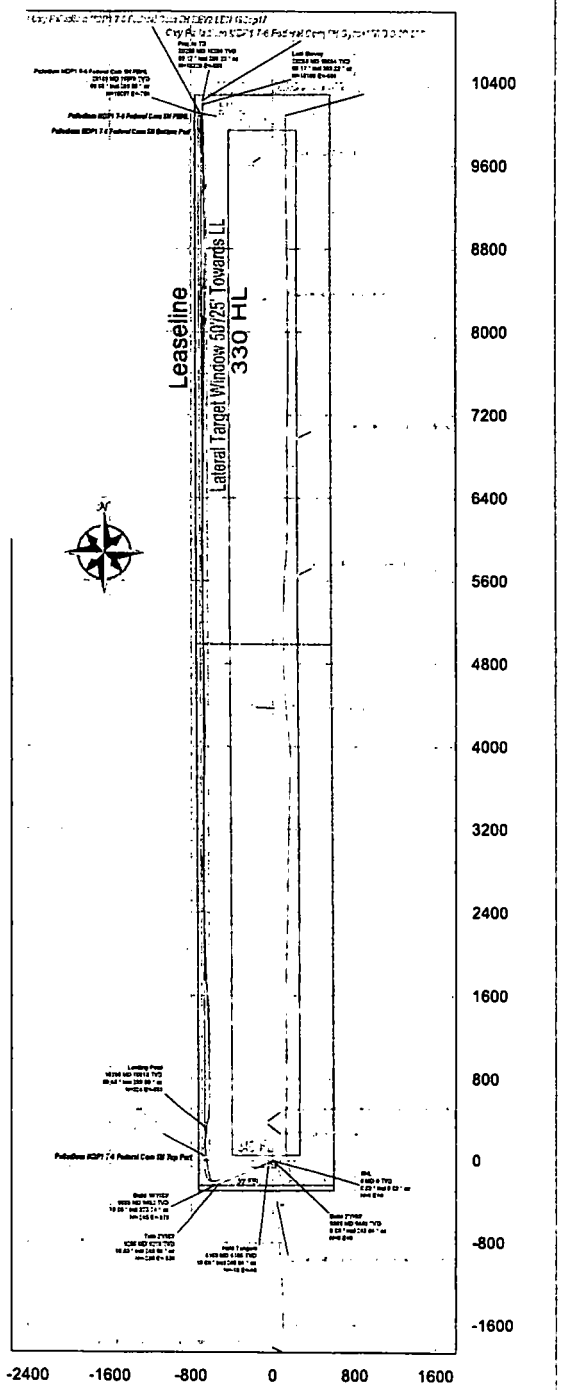
Target Description / Grid Coord

Target Name	Shape	Dimension	Latitude	Longitude	Northing	Easting	TVD	VSec
Palladium MDP1 7-6 Federal Com 5H Lateral Target Window 25' Left/50' Right	Rectangle	10053.65 x 75.00	N 32 14 21.64	W 103 48 44.65	451197.50	702400.05	-10050.00	5105.04
Oxy Palladium MDP1 7-6 Federal Com 5H Section Line	Polyline	N/A	N 32 13 31.43	W 103 48 37.10	448127.32	703073.37	3551.80	0.00
Oxy Palladium MDP1 7-6 Federal Com 5H 50' FSL	Polyline	N/A	N 32 13 31.43	W 103 48 37.10	448127.32	703073.37	3551.80	0.00
Oxy Palladium MDP1 7-6 Federal Com 5H 330'x347' HL	Polyline	N/A	N 32 13 31.43	W 103 48 37.10	448127.32	703073.37	3551.93	0.00
Oxy Palladium MDP1 7-6 Federal Com 5H Leaseline	Polyline	N/A	N 32 13 31.43	W 103 48 37.10	448127.32	703073.37	3551.80	0.00
Palladium MDP1 7-6 Federal Com 5H Top Perf	Point	N/A	N 32 13 31.90	W 103 48 44.87	448170.97	702425.35	10010.00	80.99
Palladium MDP1 7-6 Federal Com 5H PBHL	Point	N/A	N 32 15 11.38	W 103 48 44.72	455224.12	702359.78	10078.00	10121.92
Palladium MDP1 7-6 Federal Com 5H Bottom Perf	Point	N/A	N 32 15 9.80	W 103 48 44.72	456064.12	702370.35	10078.00	9262.28

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	605.00	0.00	245.84	605.00	0.00	0.00	0.00	0.00
Salado	961.00	0.00	245.84	961.00	0.00	0.00	0.00	0.00
Castile	3032.00	0.00	245.84	3032.00	0.00	0.00	0.00	0.00
Delaware	4279.00	0.00	245.84	4279.00	0.00	0.00	0.00	0.00
Bell Canyon	4302.00	0.00	245.84	4302.00	0.00	0.00	0.00	0.00
Cherry Canyon	5092.00	0.00	245.84	5092.00	0.00	0.00	0.00	0.00
Build 2°/100'	5680.00	0.00	245.84	5680.00	0.00	0.00	0.00	0.00
Hold Tangent	6168.88	10.00	245.84	6168.34	-15.00	-17.00	-39.69	2.00
Brushy Canyon	6536.11	10.00	245.84	6526.00	-38.99	-43.00	-97.66	0.00
Bone Spring	6169.92	10.00	245.84	8137.00	-134.81	-159.99	-356.65	0.00
Turn 2°/100'	9265.51	10.00	245.84	9215.86	-200.40	-237.83	-530.20	0.00
Build 10°/100'	9505.39	10.00	273.74	9452.33	-204.78	-245.00	-570.00	2.00
Landing Point Palladium MDP1 7-6 Federal Com 5H	10304.63	89.60	359.80	10010.00	359.40	323.65	-668.40	10.00
PBHL	20168.71	89.60	359.80	10078.00	10121.92	10037.44	-703.65	0.00
Wellbore	N/A			11507.00				





Vertical Section (ft) Azim = 356.01° Scale = 1:400.00(ft) Origin = 0N/-S, 0E/-W

gyro/data

Gyrodata Incorporated
10504 WCR 72
Midland, TX 79707

Main: 432-561-8458
Fax: 432-563-7982

I, Kevin Willard, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the Gyroscopic Multishot survey from a depth of 0 feet to a depth of _feet conducted on the day(s) of 08/14/2017; that this survey was conducted at the request OXY USA for the PALLADIUM MDP1 Well 5H No. 30-015-44294 in Eddy County, NM; that the data is true, correct, complete, and within the limitations of the tool as set forth by Gyrodata Inc.; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Gyrodata Inc.

Kevin Willard
Operations Coordinator

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

OXY USA

Lease: Palladium MDP1 7-6 Fed Com Well: 5H, 17 1/2"
Location: Transcend Rig 1, Eddy County, New Mexico

Job Number: MD0817GDM593

Run Date: 13 Aug 2017
Report Generated: 02 Oct 2017 08:21

Surveyor: Craig Donald

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man
Survey Latitude: 32.225275 deg. N
Longitude: 103.809820 deg. W

Well Head Location -
From Local Horizontal Reference: N 0.00 ft. E 0.00 ft.

Azimuth Correction:
Gyro: -0.28000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 6.00

Ground Elevation (Ground to MSL / MSL to Mudline): 3525.40

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

A Gyrodata Directional Survey

OXY USA
Lease: Palladium MDP1 7-6 Fed Com Well: 5H, 17 1/2"
Location: Transcend Rig 1, Eddy County, New Mexico
Job Number: MD0817GDM593

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	CLOSURE AZIMUTH deg.	HORIZONTAL COORDINATES feet	
0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N	0.00 E
0 to 636.71ft rate gyroscopic survey, inside of 5" drillpipe								
All measured depths and coordinates in reference to Transcend Rig 1, R.K.B height of 6.00 ft								
17.78	0.28	34.64	1.57	17.78	0.0	34.6	0.04 N	0.02 E
75.37	0.35	340.94	0.51	75.37	0.3	8.5	0.32 N	0.05 E
134.65	0.52	349.95	0.31	134.65	0.8	355.5	0.75 N	0.06W
195.67	0.58	335.20	0.25	195.66	1.3	349.7	1.31 N	0.24W
257.71	0.44	315.24	0.36	257.70	1.8	343.1	1.76 N	0.54W
321.71	0.56	287.29	0.42	321.70	2.3	333.6	2.03 N	1.01W
384.71	0.51	274.50	0.20	384.70	2.7	323.6	2.14 N	1.58W
447.71	0.58	265.36	0.18	447.69	3.1	314.5	2.14 N	2.18W
510.71	0.60	257.28	0.14	510.69	3.5	305.9	2.04 N	2.82W
571.71	0.95	248.99	0.60	571.69	4.0	296.4	1.79 N	3.60W
636.71	0.71	249.80	0.37	636.68	4.7	288.0	1.46 N	4.48W

Final Station Closure: Distance: 4.71 ft Az: 287.99 deg.

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:
7, 24S, 31E, Eddy NM
N 32.22540 W -103.81030

I, Aaron Simon certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 26, 2017 through October 01, 2017, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 780.00 feet to a depth of 20250.00 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 Palladium MDP1-7-6 Fed Com 5H Well (Original Hole) API No. 30-015-44294 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
Aaron Simon
FE

Subscribed and Sworn to before me this 11th day of October (month) 2017 (yr)

My Commission expires:
Dec 20, 2020

Notary Public

Adams County Colorado
(County State)

(signature)

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

Schlumberger

Oxy Palladium MDP1 7-6 Federal Com 5H Gyro+MWD 0-20,288' Survey
Geodetic Report
(Def Survey)

Report Date:	October 02, 2017 - 09:05 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	356.014 ° (Grid North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Palladium MDP1 7-6 Federal Com 5H / Oxy Palladium MDP1 7-6 Federal Com 5H	**TVD Reference Datum:**	RKB=26.5'
Well:	Oxy Palladium MDP1 7-6 Federal Com 5H	**TVD Reference Elevation:**	3551.900 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3525.400 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.964 °
Survey Name:	Oxy Palladium MDP1 7-6 Federal Com 5H Gyro+MWD 0-20,288'	**Total Gravity Field Strength:**	998.4289mgn (9.80665 Based)
Survey Date:	September 19, 2017	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	243.929 ° / 11238.035 ft / 6.742 / 1.117	**Total Magnetic Field Strength:**	48092.378 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.993 °
Location Lat / Long:	N 32° 13' 31.43355", W 103° 48' 37.09523"	**Declination Date:**	September 19, 2017
Location Grid N/E Y/X:	N 446127.320 ftUS, E 703073.370 ftUS	**Magnetic Declination Model:**	HDGM 2017
CRS Grid Convergence Angle:	0.2789 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99993905	**Grid Convergence Used:**	0.2789 °
Version / Patch:	2.10.544.0	**Total Corr Mag North->Grid North:**	6.6856 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	446127.32	703073.37	N 32 13 31.43	W 103 48 37.10
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	446127.32	703073.37	N 32 13 31.43	W 103 48 37.10
	38.28	0.28	34.64	38.28	0.02	0.02	0.02	2.38	446127.34	703073.39	N 32 13 31.43	W 103 48 37.10
	95.87	0.35	340.94	95.87	0.30	0.31	0.04	0.51	446127.63	703073.41	N 32 13 31.44	W 103 48 37.09
	155.15	0.52	349.95	155.15	0.74	0.74	-0.07	0.31	446128.06	703073.30	N 32 13 31.44	W 103 48 37.10
	216.17	0.58	335.20	216.16	1.31	1.29	-0.25	0.25	446128.61	703073.12	N 32 13 31.45	W 103 48 37.10
	278.21	0.44	315.24	278.20	1.78	1.75	-0.54	0.36	446129.07	703072.83	N 32 13 31.45	W 103 48 37.10
	342.21	0.56	287.29	342.20	2.08	2.02	-1.02	0.42	446129.34	703072.35	N 32 13 31.45	W 103 48 37.11
	405.21	0.51	274.50	405.20	2.24	2.13	-1.59	0.20	446129.45	703071.78	N 32 13 31.45	W 103 48 37.11
	468.21	0.58	265.36	468.19	2.27	2.13	-2.19	0.18	446129.45	703071.18	N 32 13 31.45	W 103 48 37.12
	531.21	0.60	257.28	531.19	2.22	2.03	-2.83	0.14	446129.35	703070.54	N 32 13 31.45	W 103 48 37.13
	592.21	0.95	248.99	592.19	2.02	1.78	-3.61	0.60	446129.10	703069.76	N 32 13 31.45	W 103 48 37.14
Last Gyro	657.21	0.71	249.80	657.18	1.75	1.44	-4.49	0.37	446128.76	703068.88	N 32 13 31.45	W 103 48 37.15
	780.00	0.73	231.55	779.96	1.10	0.69	-5.82	0.19	446128.01	703067.55	N 32 13 31.44	W 103 48 37.16
	873.00	0.58	227.75	872.95	0.47	0.01	-6.63	0.17	446127.33	703066.74	N 32 13 31.43	W 103 48 37.17
	965.00	0.72	232.11	964.95	-0.14	-0.66	-7.43	0.16	446126.66	703065.94	N 32 13 31.43	W 103 48 37.18
	1053.00	0.94	219.86	1052.94	-0.97	-1.55	-8.33	0.32	446125.77	703065.04	N 32 13 31.42	W 103 48 37.19
	1145.00	1.01	217.68	1144.92	-2.12	-2.77	-9.31	0.09	446124.55	703064.06	N 32 13 31.41	W 103 48 37.20
	1238.00	0.80	210.30	1237.91	-3.27	-3.98	-10.14	0.26	446123.34	703063.23	N 32 13 31.39	W 103 48 37.21
	1422.00	0.97	202.81	1421.89	-5.72	-6.53	-11.39	0.11	446120.79	703061.98	N 32 13 31.37	W 103 48 37.23
	1514.00	0.90	206.64	1513.88	-7.04	-7.89	-12.02	0.10	446119.43	703061.36	N 32 13 31.36	W 103 48 37.24
	1699.00	0.73	208.27	1698.86	-9.28	-10.23	-13.23	0.09	446117.09	703060.15	N 32 13 31.33	W 103 48 37.25
	1885.00	0.93	203.99	1884.84	-11.62	-12.65	-14.40	0.11	446114.67	703058.97	N 32 13 31.31	W 103 48 37.26
	1980.00	0.87	205.38	1979.83	-12.93	-14.01	-15.02	0.07	446113.32	703058.35	N 32 13 31.30	W 103 48 37.27
	2074.00	1.00	206.81	2073.82	-14.25	-15.38	-15.70	0.14	446111.94	703057.67	N 32 13 31.28	W 103 48 37.28
	2168.00	0.96	209.20	2167.80	-15.62	-16.80	-16.45	0.06	446110.52	703056.92	N 32 13 31.27	W 103 48 37.29
	2263.00	1.30	213.31	2262.78	-17.14	-18.40	-17.43	0.37	446108.92	703055.94	N 32 13 31.25	W 103 48 37.30
	2452.00	1.79	218.55	2451.71	-21.02	-22.50	-20.45	0.27	446104.82	703052.92	N 32 13 31.21	W 103 48 37.33
	2548.00	1.34	203.59	2545.68	-23.08	-24.65	-21.80	0.64	446102.67	703051.57	N 32 13 31.19	W 103 48 37.35
	2640.00	1.18	172.12	2639.66	-25.02	-26.62	-22.11	0.75	446100.70	703051.26	N 32 13 31.17	W 103 48 37.35
	2734.00	1.48	152.54	2733.63	-27.10	-28.66	-21.42	0.57	446098.67	703051.95	N 32 13 31.15	W 103 48 37.35
	2828.00	1.29	133.94	2827.61	-29.00	-30.47	-20.10	0.52	446096.86	703053.27	N 32 13 31.13	W 103 48 37.33
	2922.00	2.26	129.00	2921.56	-31.04	-32.37	-17.90	1.04	446094.95	703055.48	N 32 13 31.11	W 103 48 37.31
	3016.00	2.00	108.42	3015.50	-32.93	-34.05	-14.90	0.85	446093.27	703058.47	N 32 13 31.10	W 103 48 37.27
	3111.00	1.80	75.03	3110.45	-33.28	-34.19	-11.88	1.17	446093.13	703061.49	N 32 13 31.10	W 103 48 37.24
	3202.00	1.03	67.60	3201.42	-32.75	-33.51	-9.75	0.87	446093.81	703063.62	N 32 13 31.10	W 103 48 37.21
	3296.00	0.68	75.70	3295.41	-32.38	-33.05	-8.43	0.39	446094.27	703064.94	N 32 13 31.11	W 103 48 37.20
	3391.00	0.76	108.20	3390.40	-32.52	-33.11	-7.28	0.43	446094.21	703066.09	N 32 13 31.11	W 103 48 37.18
	3485.00	1.53	99.90	3484.38	-33.06	-33.52	-5.45	0.84	446093.80	703067.92	N 32 13 31.10	W 103 48 37.16
	3579.00	3.04	102.66	3578.30	-34.07	-34.28	-1.78	1.61	446093.04	703071.59	N 32 13 31.09	W 103 48 37.12
	3674.00	4.22	112.85	3673.11	-36.37	-36.19	3.90	1.41	446091.13	703077.26	N 32 13 31.08	W 103 48 37.05
	3768.00	3.83	115.29	3766.88	-39.47	-38.87	9.92	0.45	446088.45	703083.29	N 32 13 31.05	W 103 48 36.98
	3862.00	4.44	122.42	3860.64	-43.16	-42.17	15.83	0.85	446085.16	703089.20	N 32 13 31.02	W 103 48 36.91
	3963.00	4.46	133.66	3961.33	-48.39	-46.97	21.97	0.86	446080.35	703095.34	N 32 13 30.97	W 103 48 36.84
	4058.00	4.02	144.82	4056.07	-53.96	-52.24	26.56	0.98	446075.08	703099.93	N 32 13 30.92	W 103 48 36.79
	4152.00	2.86	154.33	4149.90	-58.96	-57.05	29.48	1.37	446070.27	703102.85	N 32 13 30.87	W 103 48 36.76
	4247.00	1.76	178.47	4244.83	-62.62	-60.65	30.54	1.52	446066.68	703103.91	N 32 13 30.83	W 103 48 36.74
	4320.00	1.24	207.91	4317.80	-64.41	-62.46	30.20	1.25	446064.86	703103.57	N 32 13 30.81	W 103 48 36.75
	4464.00	1.88	228.10	4461.75	-67.19	-65.42	27.72	0.58	446061.90	703101.08	N 32 13 30.78	W 103 48 36.78
	4559.00	2.53	248.58	4556.68	-68.77	-67.23	24.60	1.06	446060.10	703097.97	N 32 13 30.77	W 103 48 36.81
	4653.00	3.44	259.77	4650.55	-69.70	-68.48	19.90	1.15	446058.84	703093.27	N 32 13 30.75	W 103 48 36.87
	4748.00	4.28	266.75	4745.34	-69.97	-69.19	13.55	1.01	446058.13	703086.92	N 32 13 30.75	W 103 48 36.94
	4842.00	5.12	272.21	4839.02	-69.47	-69.23	5.86	1.01	446058.10	703079.23	N 32 13 30.75	W 103 48 37.03
	4937.00	6.24	275.80	4933.55	-68.13	-68.54	-3.51	1.24	446058.78	703069.86	N 32 13 30.76	W 103 48 37.14
	5031.00	7.12	276.37	5026.91	-66.22	-67.38	-14.39	0.94	446059.94	703058.99	N 32 13 30.77	W 103 48 37.27
	5125.00	7.79	276.52	5120.12	-64.01	-66.01	-26.50	0.71	446061.31	703046.87	N 32 13 30.78	W 103 48 37.41
	5220.00	8.33	274.83	5214.18	-61.78	-64.70	-39.76	0.62	446062.62	703033.61	N 32 13 30.80	W 103 48 37.56
	5314.00	8.79	273.70	5307.13	-59.78	-63.66	-53.71	0.52	446063.66	703019.66	N 32 13 30.81	W 103 48 37.72
	5408.00	9.35	272.58	5399.96	-57.94	-62.86	-68.51	0.62	446064.47	703004.87	N 32 13 30.81	W 103 48 37.90
	5502.00	10.05	271.86	5492.61	-56.22	-62.23	-84.33	0.75	446065.09	702989.04	N 32 13 30.82	W 103 48 38.08
	5596.00	10.41	270.93	5585.12	-54.64	-61.81	-101.02	0.43	446065.51	702972.36	N 32 13 30.83	W 103 48 38.27
	5691.00	10.87	270.72	5678.49	-53.17	-61.56	-118.56	0.49	446065.76	702954.82	N 32 13 30.83	W 103 48 38.48
	5785.00	10.12	270.73	5770.91	-51.77	-61.35	-135.68	0.80	446065.98	702937.70	N 32 13 30.83	W 103 48 38.68
	5879.00	8.89	269.41	5863.62	-50.66	-61.31	-151.20	1.33	446066.01	702922.18	N 32 13 30.83	W 103 48 38.86
	5973.00	7.40	268.40	5956.67	-49.97	-61.56	-164.52	1.59	446065.77	702908.87	N 32 13 30.83	W 103 48 39.01
	6068.00	7.68	263.73	6050.85	-49.97	-62.42	-176.94	0.71	446064.90	702896.44	N 32 13 30.82	W 103 48 39.16
	6162.00	8.46	259.66	6143.92	-50.99	-64.35	-189.99	1.03	446062.97	702883.40	N 32 13 30.81	W 103 48 39.31
	6257.00	9.17	256.42	6237.80	-53.02	-67.38	-204.22	0.91	446059.94	702869.16	N 32 13 30.78	W 103 48 39.48
	6351.00	9.65	254.46	6330.53	-55.85	-71.25	-219.09	0.61	446056.07	702854.29	N 32 13 30.74	W 103 48 39.65
	6446.00	10.45	252.68	6424.07	-59.43	-75.95	-234.99	0.90	446051.38	702838.40	N 32 13 30.69	W 103 48 39.83
	6540.00	10.26	249.35	6516.54	-63.80	-81.44	-250.96	0.67	446045.89	702822.43	N 32 13 30.64	W 103 48 40.02
	6635.00	9.24	246.68	6610.17	-68.75	-87.44	-265.88	1.17	446039.88	702807.51	N 32 13 30.58	W 103 48 40.20
	6729.00	8.02	242.00	6703.10	-73.92	-93.51	-278.60	1.50	446033.82	702794.79	N 32 13 30.52	W 103 48 40.34
	6824.00	6.75	235.80	6797.32	-79.42	-99.76	-289.07	1.58	446027.57	702784.32	N 32 13 30.46	W 103 48 40.47
	6918.00	6.71	237.87	6890.67	-84.79	-105.78	-298.29	0.26	446021.54	702775.10	N 32 13 30.40	W 103 48 40.57
	7012.00	6.42	241.89	6984.05	-89.53	-111.18	-307.58	0.58	446016.15	702765.81	N 32 13 30.35	W 103 48 40.68
	7107.00	7.57	247.54	7078.35	-93.68	-116.07	-318.05	1.41	446011.25	702755.34	N 32 13 30.30	W 103 48 40.80
	7201.00	7.57	251.60	7171.53	-97.19	-120.39	-329.64	0.57	446006.93	702743.75	N 32 13 30.26	W 103 48 40.94

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7296.00	7.09	248.03	7265.75	-100.56	-124.56	-341.02	0.70	446002.76	702732.37	N 32 13 30.22	W 103 48 41.07
	7390.00	6.58	240.04	7359.08	-104.71	-129.42	-351.06	1.15	445997.90	702722.33	N 32 13 30.17	W 103 48 41.19
	7484.00	5.93	233.17	7452.53	-109.70	-135.02	-359.62	1.05	445992.30	702713.78	N 32 13 30.11	W 103 48 41.29
	7578.00	6.01	234.50	7546.02	-114.90	-140.79	-367.51	0.17	445986.54	702705.88	N 32 13 30.06	W 103 48 41.38
	7673.00	6.52	242.79	7640.45	-119.63	-146.15	-376.36	1.09	445981.18	702697.04	N 32 13 30.01	W 103 48 41.48
	7768.00	6.77	247.88	7734.81	-123.50	-150.72	-386.34	0.67	445976.61	702687.06	N 32 13 29.96	W 103 48 41.60
	7862.00	7.14	252.70	7828.12	-126.57	-154.55	-397.05	0.73	445972.78	702676.35	N 32 13 29.92	W 103 48 41.73
	7957.00	7.09	258.50	7922.39	-128.70	-157.47	-408.43	0.76	445969.86	702664.96	N 32 13 29.90	W 103 48 41.86
	8051.00	6.23	254.23	8015.76	-130.50	-160.01	-419.03	1.06	445967.32	702654.37	N 32 13 29.87	W 103 48 41.98
	8145.00	5.09	245.02	8109.30	-133.03	-163.16	-427.71	1.55	445964.17	702645.68	N 32 13 29.84	W 103 48 42.08
	8240.00	4.67	246.67	8203.95	-135.82	-166.47	-435.09	0.47	445960.86	702638.31	N 32 13 29.81	W 103 48 42.17
	8334.00	3.89	249.81	8297.69	-137.98	-169.09	-441.59	0.87	445958.24	702631.81	N 32 13 29.78	W 103 48 42.25
	8429.00	3.96	248.66	8392.47	-139.86	-171.39	-447.67	0.11	445955.94	702625.73	N 32 13 29.76	W 103 48 42.32
	8523.00	4.71	243.26	8486.20	-142.32	-174.31	-454.14	0.91	445953.02	702619.26	N 32 13 29.73	W 103 48 42.39
	8618.00	5.12	246.15	8580.85	-145.27	-177.78	-461.50	0.50	445949.55	702611.90	N 32 13 29.70	W 103 48 42.48
	8712.00	5.04	248.40	8674.48	-147.84	-181.00	-469.18	0.23	445946.34	702604.22	N 32 13 29.67	W 103 48 42.57
	8806.00	4.55	253.99	8768.15	-149.97	-183.54	-476.60	0.72	445943.79	702596.80	N 32 13 29.64	W 103 48 42.65
	8901.00	4.97	256.53	8862.82	-151.43	-185.54	-484.22	0.49	445941.79	702589.18	N 32 13 29.62	W 103 48 42.74
	8996.00	5.64	259.64	8957.42	-152.63	-187.34	-492.82	0.77	445939.99	702580.58	N 32 13 29.60	W 103 48 42.84
	9090.00	5.92	259.37	9050.94	-153.70	-189.06	-502.13	0.30	445938.27	702571.28	N 32 13 29.59	W 103 48 42.95
	9184.00	7.52	256.67	9144.29	-155.26	-191.38	-512.88	1.73	445935.96	702560.53	N 32 13 29.56	W 103 48 43.08
	9279.00	9.76	256.42	9238.21	-157.61	-194.70	-526.75	2.36	445932.63	702546.65	N 32 13 29.53	W 103 48 43.24
	9307.00	10.53	255.80	9265.77	-158.46	-195.89	-531.54	2.78	445931.45	702541.86	N 32 13 29.52	W 103 48 43.29
	9463.00	10.24	247.66	9419.22	-165.36	-204.65	-558.19	0.96	445922.68	702515.22	N 32 13 29.44	W 103 48 43.60
	9557.00	13.21	268.90	9511.28	-167.82	-208.41	-576.65	5.18	445918.92	702496.75	N 32 13 29.40	W 103 48 43.82
	9652.00	25.94	285.78	9600.69	-160.59	-203.32	-607.64	14.80	445924.01	702465.77	N 32 13 29.45	W 103 48 44.18
	9746.00	30.17	322.97	9684.26	-133.62	-178.68	-641.92	18.85	445948.65	702431.49	N 32 13 29.70	W 103 48 44.58
	9840.00	33.17	353.52	9764.77	-87.83	-133.98	-659.17	17.20	445993.35	702414.25	N 32 13 30.14	W 103 48 44.78
	9935.00	43.12	353.71	9839.38	-29.28	-75.73	-665.67	10.47	446051.59	702407.74	N 32 13 30.72	W 103 48 44.85
	10029.00	55.79	353.40	9900.36	41.94	-4.90	-673.69	13.48	446122.42	702399.72	N 32 13 31.42	W 103 48 44.94
	10124.00	67.50	359.64	9945.44	125.33	78.36	-678.50	13.61	446205.67	702394.91	N 32 13 32.24	W 103 48 44.99
	10218.00	71.48	8.32	9978.42	212.39	166.06	-672.31	9.63	446293.37	702401.10	N 32 13 33.11	W 103 48 44.91
	10312.00	80.91	8.59	10000.83	301.43	256.25	-658.90	10.04	446383.55	702414.51	N 32 13 34.00	W 103 48 44.75
	10373.00	84.18	8.77	10008.74	360.44	316.03	-649.78	5.37	446443.33	702423.63	N 32 13 34.59	W 103 48 44.64
	10478.00	86.73	7.43	10017.06	462.77	419.65	-635.03	2.74	446546.94	702438.38	N 32 13 35.62	W 103 48 44.46
	10572.00	90.24	5.05	10019.55	555.23	513.03	-624.82	4.51	446640.32	702448.59	N 32 13 36.54	W 103 48 44.34
	10667.00	90.79	0.62	10018.69	649.53	607.89	-620.13	4.70	446735.17	702453.28	N 32 13 37.48	W 103 48 44.28
	10761.00	89.97	358.72	10018.07	743.33	701.88	-620.67	2.20	446829.16	702452.74	N 32 13 38.41	W 103 48 44.28
	10855.00	90.07	357.84	10018.04	837.26	795.84	-623.49	0.94	446923.11	702449.92	N 32 13 39.34	W 103 48 44.31
	11043.00	92.24	359.48	10014.25	1025.00	983.73	-627.88	1.45	447110.99	702445.53	N 32 13 41.20	W 103 48 44.35
	11138.00	90.07	358.62	10012.33	1119.84	1078.69	-629.46	2.46	447205.94	702443.95	N 32 13 42.14	W 103 48 44.36
	11232.00	90.03	359.57	10012.25	1213.70	1172.68	-630.94	1.01	447299.93	702442.47	N 32 13 43.07	W 103 48 44.37
	11328.00	89.35	358.52	10012.77	1309.57	1268.66	-632.54	1.30	447395.90	702440.87	N 32 13 44.02	W 103 48 44.39
	11422.00	89.00	357.52	10014.12	1403.50	1362.60	-635.79	1.13	447489.83	702437.62	N 32 13 44.95	W 103 48 44.42
	11516.00	89.00	357.65	10015.76	1497.45	1456.50	-639.75	0.14	447583.73	702433.66	N 32 13 45.88	W 103 48 44.46
	11611.00	89.14	357.56	10017.30	1592.40	1551.40	-643.72	0.18	447678.62	702429.69	N 32 13 46.82	W 103 48 44.50
	11705.00	88.97	357.01	10018.85	1686.36	1645.28	-648.17	0.61	447772.50	702425.24	N 32 13 47.74	W 103 48 44.55
	11799.00	88.97	356.27	10020.54	1780.34	1739.11	-653.68	0.79	447866.32	702419.73	N 32 13 48.67	W 103 48 44.61
	11893.00	89.07	356.30	10022.15	1874.33	1832.89	-659.77	0.11	447960.10	702413.64	N 32 13 49.60	W 103 48 44.67
	12082.00	89.00	357.76	10025.34	2063.26	2021.61	-669.56	0.77	448148.80	702403.85	N 32 13 51.47	W 103 48 44.78
	12176.00	89.73	357.87	10026.38	2157.21	2115.53	-673.15	0.79	448242.72	702400.27	N 32 13 52.40	W 103 48 44.81
	12270.00	89.35	358.57	10027.13	2251.14	2209.49	-676.06	0.85	448336.67	702397.35	N 32 13 53.33	W 103 48 44.84
	12365.00	89.55	358.26	10028.04	2346.05	2304.44	-678.69	0.39	448431.62	702394.72	N 32 13 54.27	W 103 48 44.87
	12459.00	89.52	358.78	10028.81	2439.96	2398.41	-681.12	0.55	448525.58	702392.29	N 32 13 55.20	W 103 48 44.89
	12553.00	90.14	358.92	10029.09	2533.84	2492.39	-683.01	0.68	448619.55	702390.41	N 32 13 56.13	W 103 48 44.91
	12648.00	90.41	358.95	10028.63	2628.72	2587.37	-684.77	0.29	448714.53	702388.64	N 32 13 57.07	W 103 48 44.92
	12742.00	90.00	358.23	10028.29	2722.62	2681.34	-687.09	0.88	448808.49	702386.33	N 32 13 58.00	W 103 48 44.94
	12837.00	90.10	358.99	10028.21	2817.52	2776.31	-689.39	0.81	448903.46	702384.02	N 32 13 58.94	W 103 48 44.96
	12931.00	89.79	0.45	10028.30	2911.32	2870.31	-689.85	1.59	448997.45	702383.56	N 32 13 59.87	W 103 48 44.96
	13025.00	90.03	0.12	10028.45	3005.06	2964.31	-689.38	0.43	449091.44	702384.03	N 32 14 0.80	W 103 48 44.95
	13214.00	89.97	0.29	10028.45	3193.55	3153.31	-688.71	0.10	449280.43	702384.71	N 32 14 2.67	W 103 48 44.93
	13403.00	90.03	1.10	10028.45	3381.92	3342.29	-686.41	0.43	449469.40	702387.00	N 32 14 4.54	W 103 48 44.90
	13592.00	90.62	1.28	10027.38	3570.15	3531.25	-682.49	0.33	449658.34	702390.92	N 32 14 6.41	W 103 48 44.84
	13687.00	90.38	2.33	10026.55	3664.66	3626.19	-679.50	1.13	449753.29	702393.92	N 32 14 7.35	W 103 48 44.80
	13781.00	90.17	2.06	10026.10	3758.11	3720.12	-675.90	0.36	449847.21	702397.52	N 32 14 8.28	W 103 48 44.75
	13875.00	90.10	0.77	10025.87	3851.69	3814.09	-673.57	1.37	449941.17	702399.84	N 32 14 9.21	W 103 48 44.72
	13969.00	90.00	0.89	10025.79	3945.36	3908.08	-672.21	0.17	450035.16	702401.20	N 32 14 10.14	W 103 48 44.70
	14064.00	90.10	0.78	10025.71	4040.02	4003.07	-670.83	0.16	450130.14	702402.58	N 32 14 11.08	W 103 48 44.68
	14158.00	89.97	1.07	10025.65	4133.68	4097.06	-669.31	0.34	450224.12	702404.10	N 32 14 12.01	W 103 48 44.66
	14252.00	90.10	359.30	10025.59	4227.42	4191.06	-669.01	1.89	450318.11	702404.40	N 32 14 12.94	W 103 48 44.65
	14346.00	89.21	359.02	10026.16	4321.28	4285.04	-670.39	0.99	450412.09	702403.03	N 32 14 13.87	W 103 48 44.66
	14440.00	89.76	358.62	10027.01	4415.16	4379.02	-672.32	0.72	450506.06	702401.09	N 32 14 14.80	W 103 48 44.67
	14535.00	90.34	358.94	10026.92	4510.05	4474.00	-674.34	0.70	450601.04	702399.07	N 32 14 15.74	W 103 48 44.69
	14629.00	90.52	358.91	10026.22	4603.93	4567.98	-676.11	0.19	450695.01	702397.31	N 32 14 16.67	W 103 48 44.71
	14724.00	90.10	359.32	10025.70	4698.79	4662.97	-677.57	0.62	450789.99	702395.84	N 32 14 17.61	W 103 48 44.72
	14818.00	89.93	359.07	10025.68	4792.64	4756.96	-678.90	0.32	450883.98	702394.52	N 32 14 18.54	W 103 48 44.73
	14912.00	90.03	359.30	10025.71	4886.50	4850.95	-680.23	0.27	450977.96	702393.18	N 32 14 19.47	W 103 48 44.74
	15101.00	89.76	358.55	10026.06	5075.25	5039.91	-683.78	0.42	451166.91	702389.63	N 32 14 21.34	W 103 48 44.77
	15291.00	89.42	359.29	10027.42	5265.00	5229.87	-687.36	0.43	451356.86	702386.05	N 32 14 23.22	W 103 48 44.80
	15479.00	90.03	359.28	10028.32	5452.69	5417.85	-689.71	0.32	451544.83	702383.71	N 32 14 25.08	W 103 48 44.82
	15668.00	89.45	358.80	10029.18	5641.42	5606.82	-692.87	0.40	451733.79	702380.54	N 32 14 26.95	W 103 48 44.84
	15857.00	89.69	358.74	10030.60	5830.20	5795.77	-696.93	0.13	451922.73	702376.49	N 32 14 28.82	W 103 48 44.88
	16045.00	89.86	0.50	10031.33	6017.82	5983.76	-698.18	0.94	452110.70	702375.24	N 32 14 30.68	W 103 48 44.88
	16234.00	90.03	1.84	10031.52	6206.05	6172.72	-694.32	0.71	452299.65	702379.10	N 32 14 32.55	W 103 48 44.83
	16329.00	89.38	1.66	10032.00	6300.57	6267.67	-691.42	0.71	452394.60	702382.00	N 32 14 33.49	W 103 48 44.79
	16423.00	89.14	0.89	10033.22	6394.17	6361.64	-689.32	0.86	452488.56	702384.09	N 32 14 34.42	W 103 48 44.76
	16518.00	89.52	0.63	10034.33	6488.84	6456.62	-688.06	0.48	452583.54	702385.35	N 32 14 35.36	W 103 48 44.74
	16707.00	89.69	0.42	10035.63	6677.25	6645.61	-686.33	0.14	452772.51	702387.08	N 32 14 37.22	W 103 48 44.71
	16895.00	89.24	0.31	10037.39	6864.70	6833.60	-685.13	0.25	452960.49	702388.28	N 32 14 39.09	W 103 48 44.68
	17084.00	89.28	0.78	10039.83	7053.09	7022.57	-683.34	0.25	453149.45	702390.08	N 32 14 40.95	W 103 48 44.65
	17273.00	89.62	0.39	10041.64	7241.48	7211.55	-681.41	0.27	453338.42	702392.01	N 32 14 42.82	W 103 48 44.62
	17462.00	89.28	1.19	10043.46	7429.81	7400.53	-678.80	0.46	453527.38	702394.61	N 32 14 44.69	W 103 48 44.58
	17651.00	89.93	0.31	10044.76	7618.16	7589.50	-676.33	0.58	453716.35	702397.08	N 32 14 46.56	W 103 48 44.54
	17746.00	90.21	0.25	10044.64	7712.89	7684.50	-675.86	0.30	453811.34	702397.55	N 32 14 47.50	W 103 48 44.53
	17934.00	90.03	0.54	10044.25	7900.34	7872.50	-674.57	0.18	453999.32	702398.84	N 32 14 49.36	W 103 48 44.50
	18123.00	90.52	0.94	10043.34	8088.70	8061.48	-672.13	0.33	454188.29	702401.29	N 32 14 51.23	W 103 48 44.46
	18312.00	90.48	0.96	10041.69	8276.99	8250.44	-668.99	0.02	454377.25	702404.42	N 32 14 53.10	W 103 48 44.42
	18501.00	90.62	359.77	10039.88	8465.43	8439.43	-667.79	0.63	454566.22	702405.62	N 32 14 54.97	W 103 48 44.39
	18595.00	90.28	359.48	10039.14	8559.24	8533.42	-668.40	0.48	454660.21	702405.01	N 32 14 55.90	W 103 48 44.39
	18784.00	90.76	0.83	10037.43	8747.74	8722.41	-667.89	0.76	454849.18	702405.52	N 32 14 57.77	W 103 48 44.38
	18973.00	88.38	359.16	10038.84	8936.26	8911.38	-667.91	1.54	455038.14	702405.50	N 32 14 59.64	W 103 48 44.37
	19067.00	88.45	359.62	10041.44	9030.06	9005.34	-668.91	0.49	455132.10	702404.50	N 32 15 0.57	W 103 48 44.37
	19256.00	88.11	358.81	10047.12	9218.68	9194.24	-671.50	0.46	455320.98	702401.91	N 32 15 2.44	W 103 48 44.39
	19445.00	89.21	359.15	10051.54	9407.37	9383.15	-674.86	0.61	455509.88	702398.55	N 32 15 4.31	W 103 48 44.42
	19634.00	89.18	359.10	10054.19	9596.07	9572.11	-677.75	0.03	455698.83	702395.67	N 32 15 6.18	W 103 48 44.44
	19823.00	88.93	359.08	10057.31	9784.77	9761.06	-680.75	0.13	455887.77	702392.66	N 32 15 8.05	W 103 48 44.47
	20012.00	89.21	359.55	10060.38	9973.43	9950.02	-683.01	0.29	456076.72	702390.41	N 32 15 9.92	W 103 48 44.48
	20201.00	89.24	359.16	10062.93	10162.09	10138.99	-685.13	0.21	456265.68	702388.28	N 32 15 11.79	W 103 48 44.50
Last Survey	20250.00	89.17	359.22	10063.61	10211.01	10187.98	-685.83	0.19	456314.66	702387.59	N 32 15 12.28	W 103 48 44.50

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Proj. to TD	20288.00	89.17	359.22	10064.16	10248.95	10225.98	-686.34	0.00	456352.65	702387.07	N 32 15 12.65	W 103 48 44.51

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 5H Gyro+MWD 0-20,288'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 5H Gyro+MWD 0-20,288'
	1	26.500	657.210	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 5H
	1	657.210	20288.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 5H

State of New Mexico
Energy, Minerals and Natural Resources Department

June 27, 2017

Oxy USA Inc
Attn Mr David Stewart

ADMINISTRATIVE NON-STANDARD LOCATION

Administrative Order NSL-7549

Oxy USA Inc.
OGRID 16696
Palladium MDP1 7-6 Federal Com Well No. 5H
API No. 30-015-Pending

Non-Standard Location

Proposed Location:

	Footages	Unit/Lot	Sec.	Tsp	Rge	County
Surface	293' FSL & 592' FEL	P	7	24S	31E	Eddy
Penetration Point	340' FSL & 1260' FEL	P	7	24S	31E	Eddy
Final perforation	340' FNL & 1260' FEL	A/1	6	24S	31E	Eddy
Terminus	180' FNL & 1260' FEL	A/1	6	24S	31E	Eddy

Proposed Project Area:

Description	Acres	Pool	Pool Code
E/2 E/2 of Section 7 E/2 E/2 of Section 6	320 22	Cotton Draw, Bone Spring	13367

Reference is made to your application received on April 26, 2017

You have requested to drill this horizontal well at an unorthodox oil well location described above in the referenced pool or formation This location is governed by statewide Rule 19 15 15 9.A NMAC, which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary, and Rule 19 15 16 14 B(2) NMAC concerning directional wells in designated project areas This location is unorthodox because portions of the proposed completed interval are closer to outside boundaries of the proposed project area than any location that would be a standard location under the applicable pool rules

Your application has been duly filed under the provisions of Division Rules 19 15 15 13 NMAC and 19 15 4 12 A (2) NMAC

It is our understanding that the Applicant is seeking this location because they intend to increase their horizontal well spacing from four wells per section to six wells per section to effectively develop the Bone Spring and Wolfcamp formations Next, increasing well density will optimize recoverable

It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 19 15 4 12 A (2) NMAC, in all adjoining units towards which the proposed location encroaches

Pursuant to the authority conferred by Division Rule 19.15.15 13 (B) NMAC, the above-described unorthodox location is hereby approved

The above approvals are subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 19 15 5 9 NMAC

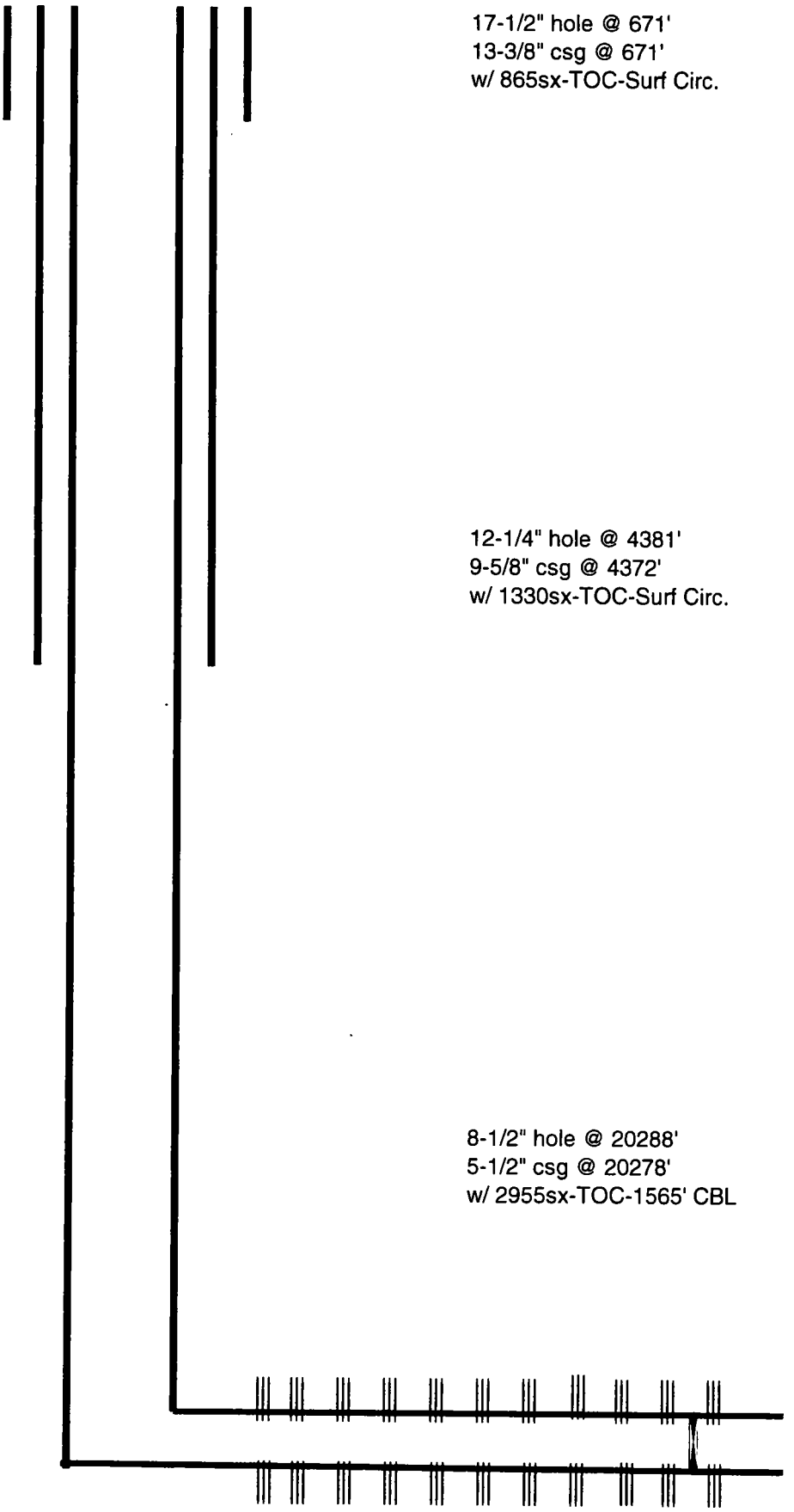
Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary

DAVID R. CATANACH
Director

DRC/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

OXY USA Inc.
Palladium MDP1 7-6 Federal Com 5H
API No. 30-015-44294



17-1/2" hole @ 671'
13-3/8" csg @ 671'
w/ 865sx-TOC-Surf Circ.

12-1/4" hole @ 4381'
9-5/8" csg @ 4372'
w/ 1330sx-TOC-Surf Circ.

8-1/2" hole @ 20288'
5-1/2" csg @ 20278'
w/ 2955sx-TOC-1565' CBL

CIBP 19998'

Perfs @ 19979-10094'

TD- 20288'M 10064'V
PBTD- 19998'M 10060'V