

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

30-015-44299

Well Reference:

7, 24S, 31E, Eddy NM
N 32.22627 W -103.82327

I, Kurt Valentine certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 24, 2017 through December 31, 2017, conduct or supervise the taking of the SlimPulse surveys from a depth of 10333.00 feet to a depth of 19950.00 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 Federal Com 2H Well (Original Hole) API No. 30-015-44299 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
Kurt Valentine
FS

Subscribed and Sworn to before me this 17th day of January (month) 2018 (yr)

My Commission expires:

12.00.2020

J. Allemand

Notary Public

Adams County Colorado
(County State)

(signature)

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

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Schlumberger

RECEIVED

January 17, 2018

MAY 31 2018

OXY USA INC.

DISTRICT II-ARTESIA O.C.D.

Re:

CLIENT: OXY USA INC.
WELL: Palladium MDP1 7-6 Federal Com 2H
FIELD: Cotton Draw Bone Spring

RIG: HP 656
COUNTY: Eddy
API NO: 30-015-44299
JOB NO: 17MLD3188

7, 24S, 31E, Eddy NM
N 32.22627 W -103.82327

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>
Kurt Valentine FS	Palladium MDP1 7-6 Federal Com 2H Original Hole	10333.00 Ft to 19950.00 Ft	December 24, 2017 to December 31, 2017	SlimPulse

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

Mike Stephens
Field Service Manager

Oxy Palladium MDP1 7-6 Federal Com 2H Gyro+MWD 0-20085 ftMD Survey

Geodetic Report

(Def Survey)



Report Date: January 02, 2018 - 09:59 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Palladium MDP1 7-6 Federal Com 2H / Oxy Palladium MDP1 7-6 Federal Com 2H Well: Oxy Palladium MDP1 7-6 Federal Com 2H Borehole: Original Borehole UWI / API#: Unknown / Unknown Survey Name: Oxy Palladium MDP1 7-6 Federal Com 2H Gyro+MWD 0-20085 ftMD Survey Date: December 18, 2017 Tort / AHD / DDI / ERD Ratio: 238.386 * / 11083.074 ft / 6.723 / 1.105 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 13' 34.55708", W 103° 49' 23.75664" Location Grid N/E Y/X: N 446423.690 ftUS, E 699063.750 ftUS CRS Grid Convergence Angle: 0.2720 * Grid Scale Factor: 0.99993758 Version / Patch: 2.10.565.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 2.801 * (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB=26.5' TVD Reference Elevation: 3557.400 ft above MSL Seabed / Ground Elevation: 3530.900 ft above MSL Magnetic Declination: 6.954 * Total Gravity Field Strength: 998.4281 mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48064.646 nT Magnetic Dip Angle: 59.991 * Declination Date: December 18, 2017 Magnetic Declination Model: HDGM 2017 North Reference: Grid North Grid Convergence Used: 0.2720 * Total Corr Mag North-Grid North: 6.6818 * Local Coord Referenced To: Well Head	
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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	446423.69	699063.75	N 32 13 34.56 W 103 49 23.76	
	79.10	0.83	198.99	79.10	-0.55	-0.54	-0.19	1.05	446423.15	699063.56	N 32 13 34.55 W 103 49 23.76	
	173.40	0.82	213.13	173.39	-1.79	-1.75	-0.78	0.22	446421.94	699062.97	N 32 13 34.54 W 103 49 23.77	
	267.70	0.97	198.56	267.68	-3.14	-3.07	-1.40	0.29	446420.62	699062.35	N 32 13 34.53 W 103 49 23.77	
	361.90	0.89	207.35	361.86	-4.57	-4.48	-1.99	0.17	446419.21	699061.76	N 32 13 34.51 W 103 49 23.78	
	456.30	0.93	213.36	456.25	-5.90	-5.77	-2.75	0.11	446417.92	699061.00	N 32 13 34.50 W 103 49 23.79	
	550.80	0.80	209.71	550.74	-7.15	-6.98	-3.50	0.15	446416.71	699060.25	N 32 13 34.48 W 103 49 23.80	
	645.20	0.68	199.81	645.13	-8.27	-8.08	-4.01	0.19	446415.61	699059.74	N 32 13 34.48 W 103 49 23.80	
	737.10	0.14	41.46	737.03	-8.70	-8.51	-4.12	0.88	446415.18	699059.63	N 32 13 34.47 W 103 49 23.81	
	828.60	0.18	44.95	828.53	-8.51	-8.33	-3.95	0.04	446415.36	699059.80	N 32 13 34.47 W 103 49 23.80	
	918.90	0.17	39.90	918.83	-8.30	-8.12	-3.76	0.02	446415.57	699059.99	N 32 13 34.48 W 103 49 23.80	
	1010.60	0.17	40.47	1010.53	-8.08	-7.92	-3.59	0.00	446415.77	699060.16	N 32 13 34.48 W 103 49 23.80	
	1101.90	0.17	40.00	1101.83	-7.87	-7.71	-3.41	0.00	446415.98	699060.34	N 32 13 34.48 W 103 49 23.80	
	1193.20	0.19	39.19	1193.13	-7.64	-7.49	-3.23	0.02	446416.20	699060.52	N 32 13 34.48 W 103 49 23.79	
	1284.80	0.17	32.33	1284.73	-7.40	-7.26	-3.06	0.03	446416.43	699060.69	N 32 13 34.49 W 103 49 23.79	
	1376.50	0.16	36.40	1376.43	-7.17	-7.04	-2.91	0.02	446416.65	699060.84	N 32 13 34.49 W 103 49 23.79	
	1468.00	0.18	30.24	1467.93	-6.94	-6.81	-2.76	0.03	446416.88	699060.99	N 32 13 34.49 W 103 49 23.79	
	1559.90	0.17	28.76	1559.83	-6.69	-6.57	-2.63	0.01	446417.12	699061.13	N 32 13 34.49 W 103 49 23.79	
	1654.50	0.17	23.22	1654.53	-6.43	-6.31	-2.50	0.02	446417.38	699061.25	N 32 13 34.49 W 103 49 23.79	
	1748.90	0.17	18.22	1748.83	-6.16	-6.05	-2.40	0.02	446417.64	699061.35	N 32 13 34.50 W 103 49 23.78	
	1843.10	0.18	19.86	1843.03	-5.89	-5.78	-2.31	0.01	446417.91	699061.44	N 32 13 34.50 W 103 49 23.78	
	1937.90	0.17	19.90	1937.83	-5.61	-5.51	-2.21	0.01	446418.18	699061.54	N 32 13 34.50 W 103 49 23.78	
	2032.70	0.16	19.09	2032.63	-5.35	-5.25	-2.12	0.01	446418.44	699061.63	N 32 13 34.51 W 103 49 23.78	
	2127.40	0.17	11.71	2127.33	-5.08	-4.99	-2.05	0.02	446418.70	699061.70	N 32 13 34.51 W 103 49 23.78	
	2222.10	0.17	14.73	2222.02	-4.81	-4.72	-1.98	0.01	446418.97	699061.77	N 32 13 34.51 W 103 49 23.78	
	2316.80	0.17	16.90	2316.72	-4.53	-4.45	-1.91	0.01	446419.24	699061.84	N 32 13 34.51 W 103 49 23.78	
	2411.60	0.18	12.32	2411.52	-4.25	-4.17	-1.83	0.02	446419.52	699061.92	N 32 13 34.52 W 103 49 23.78	
	2506.40	0.19	8.23	2506.32	-3.95	-3.86	-1.78	0.02	446419.83	699061.97	N 32 13 34.52 W 103 49 23.78	
	2601.20	0.20	9.16	2601.12	-3.63	-3.55	-1.73	0.01	446420.14	699062.02	N 32 13 34.52 W 103 49 23.78	
	2695.90	0.18	6.58	2695.82	-3.31	-3.23	-1.69	0.02	446420.46	699062.06	N 32 13 34.53 W 103 49 23.78	
	2790.60	0.17	6.09	2790.52	-3.02	-2.95	-1.66	0.01	446420.74	699062.09	N 32 13 34.53 W 103 49 23.78	
	2885.40	0.17	4.62	2885.32	-2.74	-2.67	-1.63	0.00	446421.02	699062.12	N 32 13 34.53 W 103 49 23.78	
	2980.20	0.17	10.13	2980.12	-2.46	-2.39	-1.59	0.02	446421.30	699062.16	N 32 13 34.53 W 103 49 23.78	
	3075.00	0.14	54.59	3074.92	-2.25	-2.18	-1.47	0.13	446421.51	699062.28	N 32 13 34.54 W 103 49 23.77	
	3169.60	0.15	24.17	3169.52	-2.07	-2.00	-1.33	0.08	446421.69	699062.42	N 32 13 34.54 W 103 49 23.77	
	3264.60	0.16	1.35	3264.52	-1.82	-1.76	-1.28	0.07	446421.83	699062.47	N 32 13 34.54 W 103 49 23.77	
	3359.40	0.16	3.50	3359.32	-1.55	-1.49	-1.26	0.01	446422.20	699062.49	N 32 13 34.54 W 103 49 23.77	
	3454.30	0.20	175.86	3454.22	-1.58	-1.53	-1.24	0.38	446422.16	699062.51	N 32 13 34.54 W 103 49 23.77	
	3549.20	0.16	5.29	3549.12	-1.62	-1.56	-1.22	0.38	446422.13	699062.53	N 32 13 34.54 W 103 49 23.77	
	3644.10	0.15	70.69	3644.02	-1.44	-1.39	-1.09	0.18	446422.30	699062.56	N 32 13 34.54 W 103 49 23.77	
	3739.00	0.17	108.45	3738.92	-1.43	-1.39	-0.84	0.11	446422.30	699062.91	N 32 13 34.54 W 103 49 23.77	
	3833.80	0.13	7.86	3833.72	-1.36	-1.33	-0.69	0.24	446422.36	699063.06	N 32 13 34.54 W 103 49 23.76	
	3928.70	0.14	333.64	3928.62	-1.15	-1.12	-0.73	0.08	446422.57	699063.02	N 32 13 34.55 W 103 49 23.77	
	4023.50	0.13	4.54	4023.42	-0.94	-0.91	-0.77	0.08	446422.78	699062.98	N 32 13 34.55 W 103 49 23.77	
	4118.40	0.16	343.26	4118.32	-0.71	-0.67	-0.80	0.06	446423.02	699062.95	N 32 13 34.55 W 103 49 23.77	
	4213.30	0.15	110.55	4213.22	-0.62	-0.59	-0.72	0.29	446423.10	699063.03	N 32 13 34.55 W 103 49 23.76	
	4308.20	0.16	333.77	4308.12	-0.54	-0.51	-0.67	0.30	446423.18	699063.08	N 32 13 34.55 W 103 49 23.77	
	4403.10	0.23	179.63	4403.02	-0.62	-0.58	-0.72	0.40	446423.11	699063.03	N 32 13 34.55 W 103 49 23.77	
	4497.90	0.22	277.78	4497.82	-0.79	-0.75	-0.90	0.36	446422.94	699062.85	N 32 13 34.55 W 103 49 23.77	
	4592.50	0.22	322.34	4592.42	-0.64	-0.58	-1.19	0.18	446423.11	699062.56	N 32 13 34.55 W 103 49 23.77	
	4687.00	0.18	96.23	4686.92	-0.51	-0.45	-1.16	0.39	446423.24	699062.59	N 32 13 34.55 W 103 49 23.77	
	4781.90	0.37	231.66	4781.82	-0.72	-0.66	-1.25	0.54	446423.03	699062.50	N 32 13 34.55 W 103 49 23.77	
	4876.70	0.16	319.18	4876.61	-0.83	-0.75	-1.57	0.42	446422.94	699062.18	N 32 13 34.55 W 103 49 23.78	
	4971.00	0.19	160.45	4970.91	-0.88	-0.80	-1.61	0.36	446422.89	699062.14	N 32 13 34.55 W 103 49 23.78	
	5065.70	0.25	265.97	5065.61	-1.05	-0.96	-1.76	0.37	446422.73	699061.99	N 32 13 34.55 W 103 49 23.78	
	5160.50	0.21	315.20	5160.41	-0.95	-0.85	-2.09	0.21	446422.84	699061.66	N 32 13 34.55 W 103 49 23.78	
	5255.10	0.25	166.01	5255.01	-1.03	-0.93	-2.16	0.47	446422.78	699061.59	N 32 13 34.55 W 103 49 23.78	
	5349.60	1.48	166.09	5349.50	-2.40	-2.31	-1.82	1.30	446421.38	699061.93	N 32 13 34.53 W 103 49 23.78	
	5444.10	3.21	169.06	5443.92	-6.14	-6.10	-1.02	1.83	446417.59	699062.73	N 32 13 34.50 W 103 49 23.77	
	5538.70	5.48	170.67	5538.24	-13.13	-13.15	0.21	2.40	446410.54	699063.96	N 32 13 34.43 W 103 49 23.75	
	5633.20	7.60	169.73	5632.12	-23.63	-23.76	2.06	2.25	446399.93	699065.81	N 32 13 34.32 W 103 49 23.73	
	5728.00	9.32	168.97	5725.88	-37.19	-37.46	4.64	1.82	446386.23	699068.39	N 32 13 34.19 W 103 49 23.70	
	5822.70	11.25	161.70	5819.06	-53.26	-53.76	9.01	2.45	446369.93	699072.76	N 32 13 34.02 W 103 49 23.65	
	5917.40	13.00	158.67	5911.65	-71.60	-72.45	15.79	1.97	446351.24	699079.54	N 32 13 33.84 W 103 49 23.58	
	6012.20	14.61	156.97	6003.71	-92.09	-93.39	24.34	1.75	446330.30	699088.09	N 32 13 33.63 W 103 49 23.48	
	6107.00	16.21	154.45	6095.10	-114.50	-116.33	34.73	1.83	446307.36	699098.48	N 32 13 33.40 W 103 49 23.36	
	6201.70	14.99	155.46	6186.31	-137.01	-139.40	45.52	1.32	446284.30	699109.26	N 32 13 33.18 W 103 49 23.23	
	6296.40	15.08	153.12	6277.76	-158.59	-161.53	56.17	0.65	446262.17	699119.92	N 32 13 32.96 W 103 49 23.11	
	6391.20	15.14	148.66	6369.29	-179.55	-183.10	68.19	1.23	446240.60	699131.93	N 32 13 32.74 W 103 49 22.97	
	6486.00	14.89	148.97	6460.85	-199.92	-204.12	80.91	0.28	446219.59	699144.65	N 32 13 32.53 W 103 49 22.83	
	6580.70	14.87	149.01	6552.38	-220.12	-224.96	93.43	0.02	446198.75	699157.18	N 32 13 32.33 W 103 49 22.68	
	6675.40	14.77	148.87	6543.93	-240.24	-245.71	105.93	0.11	446178.00	699169.67	N 32 13 32.12 W 103 49 22.54	
	6770.10	14.85	148.17	6735.48	-260.24	-266.35	118.57	0.21	446175.06	699182.31	N 32 13 31.92 W 103 49 22.39	
	6864.80	14.89	147.86	6827.01	-280.20	-286.96	131.45	0.09	446136.74	699195.19	N 32 13 31.71 W 103 49 22.24	
	6959.50	15.06	148.14	6918.49	-300.29	-307.72	144.41	0.20	446115.99	699208.15	N 32 13 31.51 W 103 49 22.09	
	7054.30	15.00	148.03	7010.05	-320.50	-328.58	157.41	0.07	446095.13	69		

MD	Incl	Azim Grd	TVD	VSEC	NS	EW	DLS	Northng	Eastng	Latitude	Longitude
19950.00							0.28	45506.02		32 15	9.85
19794.00							0.53	45500.06		32 15	9.85
19698.00							0.20	45508.07		32 15	9.85
19510.00							0.24	45516.09		32 15	9.85
19321.00							0.11	45524.12		32 15	9.85
19132.00							0.20	45532.15		32 15	9.85
18939.00							1.09	45540.18		32 15	9.85
18845.00							0.30	45548.21		32 15	9.85
18656.00							0.60	45556.24		32 15	9.85
18467.00							0.13	45564.27		32 15	9.85
18280.00							0.62	45572.30		32 15	9.85
18185.00							0.53	45580.33		32 15	9.85
17997.00							0.31	45588.36		32 15	9.85
17804.00							0.01	45596.39		32 15	9.85
17719.00							0.46	45604.42		32 15	9.85
17621.00							0.33	45612.45		32 15	9.85
17514.00							2.01	45620.48		32 15	9.85
17433.00							1.01	45628.51		32 15	9.85
17245.00							0.30	45636.54		32 15	9.85
17150.00							0.56	45644.57		32 15	9.85
17054.00							0.69	45652.60		32 15	9.85
16962.00							0.66	45660.63		32 15	9.85
16868.00							0.57	45668.66		32 15	9.85
16773.00							0.62	45676.69		32 15	9.85
16679.00							0.82	45684.72		32 15	9.85
16587.00							0.54	45692.75		32 15	9.85
16492.00							0.52	45700.78		32 15	9.85
16399.00							0.88	45708.81		32 15	9.85
16306.00							1.44	45716.84		32 15	9.85
16213.00							0.45	45724.87		32 15	9.85
16119.00							0.67	45732.90		32 15	9.85
16026.00							0.83	45740.93		32 15	9.85
15933.00							1.71	45748.96		32 15	9.85
15840.00							0.86	45756.99		32 15	9.85
15747.00							1.06	45764.02		32 15	9.85
15654.00							0.91	45772.05		32 15	9.85
15561.00							1.44	45780.08		32 15	9.85
15468.00							0.40	45788.11		32 15	9.85
15375.00							0.11	45796.14		32 15	9.85
15282.00							0.25	45804.17		32 15	9.85
15189.00							1.51	45812.20		32 15	9.85
15096.00							1.59	45820.23		32 15	9.85
15003.00							2.31	45828.26		32 15	9.85
14910.00							2.36	45836.29		32 15	9.85
14817.00							0.09	45844.32		32 15	9.85
14724.00							0.51	45852.35		32 15	9.85
14631.00							0.69	45860.38		32 15	9.85
14538.00							0.51	45868.41		32 15	9.85
14445.00							0.69	45876.44		32 15	9.85
14352.00							0.51	45884.47		32 15	9.85
14259.00							0.69	45892.50		32 15	9.85
14166.00							0.51	45900.53		32 15	9.85
14073.00							0.69	45908.56		32 15	9.85
13980.00							0.51	45916.59		32 15	9.85
13887.00							0.69	45924.62		32 15	9.85
13794.00							0.51	45932.65		32 15	9.85
13701.00							0.69	45940.68		32 15	9.85
13608.00							0.51	45948.71		32 15	9.85
13515.00							0.69	45956.74		32 15	9.85
13422.00							0.51	45964.77		32 15	9.85
13329.00							0.69	45972.80		32 15	9.85
13236.00							0.51	45980.83		32 15	9.85
13143.00							0.69	45988.86		32 15	9.85
13050.00							0.51	45996.89		32 15	9.85
12957.00							0.69	46004.92		32 15	9.85
12864.00							0.51	46012.95		32 15	9.85
12771.00							0.69	46020.98		32 15	9.85
12678.00							0.51	46029.01		32 15	9.85
12585.00							0.69	46037.04		32 15	9.85
12492.00							0.51	46045.07		32 15	9.85
12399.00							0.69	46053.10		32 15	9.85
12306.00							0.51	46061.13		32 15	9.85
12213.00							0.69	46069.16		32 15	9.85
12120.00							0.51	46077.19		32 15	9.85
12027.00							0.69	46085.22		32 15	9.85
11934.00							0.51	46093.25		32 15	9.85
11841.00							0.69	46101.28		32 15	9.85
11748.00							0.51	46109.31		32 15	9.85
11655.00							0.69	46117.34		32 15	9.85
11562.00							0.51	46125.37		32 15	9.85
11469.00							0.69	46133.40		32 15	9.85
11376.00							0.51	46141.43		32 15	9.85
11283.00							0.69	46149.46		32 15	9.85
11190.00							0.51	46157.49		32 15	9.85
11097.00							0.69	46165.52		32 15	9.85
11004.00							0.51	46173.55		32 15	9.85
10911.00							0.69	46181.58		32 15	9.85
10818.00							0.51	46189.61		32 15	9.85
10725.00							0.69	46197.64		32 15	9.85
10632.00							0.51	46205.67		32 15	9.85
10539.00							0.69	46213.70		32 15	9.85
10446.00							0.51	46221.73		32 15	9.85
10353.00							0.69	46229.76		32 15	9.85
10260.00							0.51	46237.79		32 15	9.85
10167.00							0.69	46245.82		32 15	9.85
10074.00							0.51	46253.85		32 15	9.85
9981.00							0.69	46261.88		32 15	9.85
9888.00							0.51	46269.91		32 15	9.85
9795.00							0.69	46277.94		32 15	9.85
9702.00							0.51	46285.97		32 15	9.85
9609.00							0.69	46293.00		32 15	9.85
9516.00							0.51	46301.03		32 15	9.85
9423.00							0.69	46309.06		32 15	9.85
9330.00							0.51	46317.09		32 15	9.85
9237.00							0.69	46325.12		32 15	9.85
9144.00							0.51	46333.15		32 15	9.85
9051.00							0.69	46341.18		32 15	9.85
8958.00							0.51	46349.21		32 15	9.85
8865.00							0.69	46357.24		32 15	9.85
8772.00							0.51	46365.27		32 15	9.85
8679.00							0.69	46373.30		32 15	9.85
8586.00							0.51	46381.33		32 15	9.85
8493.00							0.69	46389.36		32 15	9.85
8400.00							0.51	46397.39		32 15	9.85
8307.00							0.69	46405.42		32 15	9.85
8214.00							0.51	46413.45		32 15	9.85
8121.00							0.69	46421.48		32 15	9.85
8028.00							0.51	46429.51		32 15	9.85
7935.00							0.69	46437.54		32 15	9.85
7842.00							0.51	46445.57		32 15	9.85
7749.00							0.69	46453.60		32 15	9.85
7656.00							0.51	46461.63		32 15	9.85
7563.00							0.69	46469.66		32 15	9.85
7470.00							0.51	46477.69		32 15	9.85
7377.00							0.69	46485.72		32 15	9.85
7284.00							0.51	46493.75		32 15	9.85
7191.00							0.69	46501.78		32 15	9.85
7098.00							0.51	46509.81		32 15	9.85
7005.00							0.69	46517.84		32 15	9.85
6912.00							0.51	46525.87		32 15	9.85
6819.00							0.69	46533.90		32 15	9.85
6726.00							0.51	46541.93		32 15	9.85
6633.00							0.69	46549.96		32 15	9.85
6540.00							0.51	46557.99		32 15	9.85
6447.00							0.69	46566.02		32 15	9.85
6354.00							0.51	46574.05		32 15	9.85
6261.00							0.69	46582.08		32 15	9.85
6168.00											

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 bit	20085.00	90.10	359.00	10033.66	9780.93	9787.93	504.89	0.00	456190.99	699568.61	N 32 15 11.19 W	103 49 17.34

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 2H Gyro+MWD 0-20085 ftMD
	1	26.500	26.500	Act Sns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 2H Gyro+MWD 0-20085 ftMD
	1	26.500	9422.200	Act Sns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 2H
	1	9422.200	20085.000	Act Sns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Palladium MDP1 7-6 Federal Com 2H

Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Palladium MDP1 7-6 Federal Com 2H	NM Eddy County (NAD 83)	Oxy Palladium MDP1 7-6 Federal Com 2H
Gravity & Magnetic Parameters			
Model: HGM 2017	Dip: 88.991°	Date: 18-Dec-2017	Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
MagDec: 6.954°	F3: 42084.64nT	Gravity F3: 958.42mgal (9.80665 Based)	Lat: N 32 13 34.58 Northing: 448423.87NUS Grid Conv: 0.272°
			Lon: W 103 49 23.76 Easting: 698063.75NUS Scale Fact: 0.9993758
			Miscellaneous: Oxy Palladium MDP1 7-6 Federal Com 2H REV2 LBN 18Dec17
			Slot: MDP1 7-6 Federal TVD Ref: RKB=26.5' (1547' Alt above MSL)
			Plan: Oxy Palladium MDP1 7-6 Federal Com 2H REV2 LBN 18Dec17

