

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 13 2017

30-015-44294

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)

RECEIVED

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.

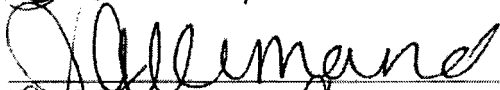
By
Aaron Simon
FE



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

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
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Palladium MDP1 7-6 Federal Com 5H / Oxy Palladium MDP1 7-6 Federal Com 5H
Well: Oxy Palladium MDP1 7-6 Federal Com 5H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Palladium MDP1 7-6 Federal Com 5H Gyro+MWD 0-20,288'
Survey Date: September 19, 2017
Tort / AHD / DDI / ERD Ratio: 243 929 ' / 11236 035 ft / 6 742 / 1 117
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 31.4355" W 103° 48' 37.09523"
Location Grid N/E Y/X: N 446127 320 NUS, E 703073 370 NUS
CRS Grid Convergence Angle: 0.2788°
Grid Scale Factor: 0.99993905
Version / Patch: 2 10 544 g

Survey / DLS Computation: Minimum Curvature - Lubinski
Vertical Section Azimuth: 356 014 ' (Grid North)
Vertical Section Origin: 0 000 ft 0.000 n
TVD Reference Datum: RKB=26 5'
TVD Reference Elevation: 3551 900 ft above MSL
Seabed / Ground Elevation: 3525 400 ft above MSL
Magnetic Declination: 6 984°
Total Gravity Field Strength: 985 4268 mgn (8 80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48092 378 nT
Magnetic Dip Angle: 59 993°
Declination Date: September 19, 2017
Magnetic Declination Model: HDGM 2017
North Reference: Grid North
Grid Convergence Used: 0.2789°
Total Corr Mag North->Grid: 6 8856°
North: Well Head
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NB (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	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 84	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 83	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 28	342 20	2 08	2 02	-1 02	0 42	446128 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 56	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	246 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 68	-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 42	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 78	703061 98	N 32 13 31 37	W 103 48 37 23
	1514 00	0 90	206 84	1513 88	7 04	-7 89	-12 02	0 10	446119 43	703061 36	N 32 13 31 36	W 103 48 37 24
	1698 00	0 73	208 27	1698 86	9 28	-10 23	-12 23	0 08	446117 06	703060 15	N 32 13 31 33	W 103 48 37 25
	1885 00	0 93	203 99	1884 84	-11 82	-12 65	-14 40	0 11	446114 57	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 82	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 85	-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 82	-22 11	0 75	446100 70	703051 28	N 32 13 31 17	W 103 48 37 35
	2734 00	1 48	152 54	2733 83	-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 84	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 28	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 09	W 103 48 37 24
	3202 00	1 03	67 80	3201 42	-32 75	-33 51	-9 75	0 67	446093 61	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 38	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 15
	3579 00	3 04	102 86	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 20	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
	3953 00	4 46	133 66	3951 33	-48 39	-46 97	-21 87	0 88	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 88	446075 08	703099 93	N 32 13 30 92	W 103 48 36 79
	4152 00	2 88	154 33	4149 00	-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 78	178 47	4244 83	-62 62	-60 65	-30 54	1 32	446068 89	703103 91	N 32 13 30 83	W 103 48 36 74
	4320 00	1 24	207 91	4317 80	-64 41	-62 45	-30 20	1 25	446064 86	703103 57	N 32 13 30 81	W 103 48 36 75
	4484 00	1 88	226 10	4481 75	-67 19	-65 42	-27 72	0 98	446061 90	703101 08	N 32 13 30 78	W 103 48 36 78
	4599 00	2 53	248 58	4596 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 38	266 75	4745 34	-69 97	-68 19	-13 55	1 01	446058 13	703096 82	N 32 13 30 75	W 103 48 36 94
	4842 00	5 12	272 21	4839 02	-69 47	-68 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	703089 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	703084 99	N 32 13 30 77	W 103 48 37 27
	5125 00	7 78	278 52	5120 12	-64 01	-66 01	-28 50	0 71	446061 31	703046 87	N 32 13 30 76	W 103 48 37 41
	5220 00	8 33	274 83	5214 18	-61 78	-64 70	-39 78	0 82	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 98	-67 94	-62 68	-68 51	0 62	446064 47	703004 87	N 32 13 30 81	W 103 48 37 90
	5502 00	10 05	271 98	5492 81	-66 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	-64 84	-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	-63 17	-61 56	-118 56	0 49	446065 78	702954 82	N 32 13 30 83	W 103 48 38 48
	5785 00	10 12	270 73	5770 91	-61 77	-61 35	-135 48	0 80	446065 96	702937 70	N 32 13 30 83	W 103 48 38 68
	5879 00	8 89	269 41	5863 82	-60 88	-61 31	-161 20	1 33	446066 01	702922 18	N 32 13 30 83	W 103 48 38 85
	5973 00	7 40	268 40	5856 67	-59 67	-61 56	-164 52	1 59	446065 77	702905 87	N 32 13 30 83	W 103 48 39 01
	6068 00	7 68	263 73	6059 85	-59 97	-62 42	-176 84	0 71	446064 90	702898 44	N 32 13 30 82	W 103 48 39 18
	6162 00	8 46	259 66	6143 92	-50 99	-64 33	-189 89	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 81	446059 94	702869 16	N 32 13 30 78	W 103 48 39 48
	6351 00	9 85	254 48	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 85	-234 89	0 80	446051 38	702836 40	N 32 13 30 69	W 103 48 39 83
	6540 00	10 28	249 35	6516 54	-63 80	-81 44	-250 86	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 80	1 50	446033 82	702794 79	N 32 13 30 52	W 103 48 40 34
	6824 00	6 75	235 80	6787 32	-79 82	-98 76	-288 07	1 58	446027 57	702784 32	N 32 13 30 46	

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7298.00	7.09	248.03	7265.75	100.56	-124.58	-341.02	0.70	448002.76	702732.37	N 32 13 30.22 W 103 48 41.07	
	7390.00	8.58	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	8.01	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	8.52	242.79	7640.45	-119.83	-146.15	-378.38	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	445976.81	702687.06	N 32 13 29.98 W 103 48 41.50	
	7862.00	7.52	252.70	7828.12	-126.87	-154.55	-397.05	0.73	445972.78	702676.35	N 32 13 29.92 W 103 48 41.73	
	7957.00	7.08	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	1.08	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	246.87	8203.95	-135.82	-166.47	-435.09	0.47	445960.85	702638.31	N 32 13 29.81 W 103 48 42.17	
	8334.00	3.89	249.81	8297.89	-137.08	-169.09	-441.59	0.87	445958.24	702631.81	N 32 13 29.78 W 103 48 42.25	
	8429.00	3.96	248.85	8392.47	-138.86	-171.39	-447.87	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	702611.80	N 32 13 29.70 W 103 48 42.48	
	8712.00	5.04	248.40	8674.48	-147.94	-181.00	-469.18	0.23	445946.34	702604.22	N 32 13 29.67 W 103 48 42.57	
	8806.00	4.55	253.95	8768.15	-149.97	-183.54	-478.80	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	-185.94	-484.22	0.49	445941.79	702589.18	N 32 13 29.62 W 103 48 42.74	
	8996.00	5.64	259.04	8957.42	-152.83	-187.34	-492.82	0.77	445939.96	702580.58	N 32 13 29.60 W 103 48 42.84	
	9090.00	5.92	259.37	9050.94	-153.70	-189.08	-502.13	0.30	445938.27	702571.28	N 32 13 29.59 W 103 48 42.95	
	9184.00	7.52	9184.07	9144.29	-155.28	-191.70	-512.86	1.73	445936.96	702560.96	N 32 13 29.57 W 103 48 43.06	
	9279.00	6.76	256.42	9238.21	-157.61	-194.70	-526.75	2.36	445932.83	702546.65	N 32 13 29.53 W 103 48 43.24	
	9370.00	10.53	255.80	9326.77	-158.46	-195.89	-531.54	2.78	445931.45	702541.96	N 32 13 29.52 W 103 48 43.29	
	9463.00	10.24	247.65	9419.22	-160.38	-204.85	-558.19	0.96	445922.68	702515.22	N 32 13 29.44 W 103 48 43.60	
	9557.00	13.21	266.90	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	25.84	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	702431.48	N 32 13 29.70 W 103 48 44.59	
	9840.00	33.17	353.52	9764.77	-87.83	-133.96	-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	-4.80	-673.69	13.48	446122.42	702399.72	N 32 13 31.42 W 103 48 44.94	
	10124.00	67.50	359.84	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	8.39	10000.83	301.43	256.25	-658.89	10.04	446363.55	702414.51	N 32 13 34.00 W 103 48 44.75	
	10373.00	84.18	8.77	10008.74	360.44	316.03	-648.78	5.37	446443.33	702423.63	N 32 13 34.59 W 103 48 44.84	
	10476.00	86.73	7.43	10017.05	452.77	419.65	-635.03	2.74	446546.54	702438.38	N 32 13 35.62 W 103 48 44.96	
	10572.00	89.24	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	649.63	607.89	-620.13	4.70	446735.17	702453.28	N 32 13 37.48 W 103 48 44.28	
	10761.00	89.87	358.72	10018.07	743.33	701.88	-620.67	2.20	446829.16	702452.74	N 32 13 38.41 W 103 48 44.26	
	10855.00	90.07	357.84	10018.04	837.26	795.84	-623.49	0.94	446823.11	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	-629.48	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	447298.93	702442.47	N 32 13 43.07 W 103 48 44.37	
	11328.00	89.35	358.52	10012.77	1308.57	1268.86	-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	1362.80	-635.79	1.13	447489.85	702437.82	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	702433.86	N 32 13 45.88 W 103 48 44.48	
	11611.00	89.14	357.58	10017.30	1592.40	1551.40	-643.72	0.18	447678.82	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	10020.34	1780.34	1739.11	-653.68	0.79	447868.32	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	0.77	447960.19	702413.84	N 32 13 49.60 W 103 48 44.67	
	11987.00	89.06	357.78	10025.34	2063.26	2021.61	-669.95	0.77	448048.80	702403.85	N 32 13 51.47 W 103 48 44.78	
	12082.00	89.73	357.87	10028.38	2157.21	2115.53	-673.15	0.79	448242.72	702400.27	N 32 13 52.40 W 103 48 44.81	
	12176.00	89.35	358.67	10027.13	2251.14	2209.49	-676.08	0.85	448338.67	702397.35	N 32 13 53.33 W 103 48 44.84	
	12270.00	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	
	12365.00	89.52	358.78	10028.81	2439.96	2398.41	-681.12	0.55	448525.58	702382.29	N 32 13 55.20 W 103 48 44.89	
	12459.00	90.14	358.82	10029.09	2533.84	2492.38	-683.01	0.68	448619.55	702380.41	N 32 13 56.13 W 103 48 44.91	
	12553.00	90.41	359.95	10028.83	2628.72	2587.37	-684.77	0.29	448714.53	702388.64	N 32 13 57.07 W 103 48 44.92	
	12648.00	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	
	12742.00	90.10	358.99	10028.21	2817.52	2776.31	-689.39	0.81	448903.48	702384.02	N 32 13 58.94 W 103 48 44.96	
	12837.00	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	
	12931.00	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	
	13025.00	89.97	0.29	10028.45	3193.55	3153.31	-688.71	0.10	449280.43	702384.71	N 32 14 0.67 W 103 48 44.93	
	13119.00	90.03	1.10	10028.45	3381.92	3342.29	-686.41	0.43	449469.48	702387.00	N 32 14 0.54 W 103 48 44.90	
	13213.00	90.62	1.28	10027.38	3570.15	3531.25	-682.49	0.33	449658.34	702380.92	N 32 14 0.41 W 103 48 44.88	
	13307.00	90.38	2.33	10026.55	3664.86	3625.19	-679.50	1.13	449753.29	702373.92	N 32 14 0.28 W 103 48 44.80	
	13401.00	90.17	2.06	10026.10	3758.11	3728.12	-676.90	0.38	449847.47	702367.52	N 32 14 0.18 W 103 48 44.75	
	13495.00	90.10	0.77	10025.67	3851.69	3814.09	-673.57	1.37	449941.17	702359.84	N 32 14 0.21 W 103 48 44.72	
	13589.00	90.00	0.88	10025.79	3945.36	3908.08	-672.21	0.17	450035.16	702341.20	N 32 14 0.14 W 103 48 44.70	
	14084.00	90.10	0.78	10025.71	4040.02	4003.07	-670.83	0.16	450130.14	702340.58	N 32 14 0.11 W 103 48 44.68	
	14178.00	89.97	1.07	10025.65	4133.88	4097.06	-669.31	0.34	450224.12	702340.10	N 32 14 0.21 W 103 48 44.66	
	14272.00	90.10	359.30	10025.59	4227.42	4191.06	-669.01	1.89	450318.11	702340.40	N 32 14 0.24 W 103 48 44.65	
	14366.00	89.21	359.02	10026.16	4321.28	4285.04	-670.39	0.99	450412.99	702340.03	N 32 14 0.37 W 103 48 44.66	
	14460.00	89.76	358.62	10027.01	4415.16	4379.02	-672.32	0.72	450506.06	702340.09	N 32 14 0.40 W 103 48 44.67	
	14554.00	90.34	358.94	10026.92	4510.05	4474.00	-674.34	0.70	450601.04	702339.07	N 32 14 0.57 W 103 48 44.69	
	14648.00	90.52	358.91	10026.22	4603.93	4567.98	-676.11	0.19	450695.01	702337.31	N 32 14 0.67 W 103 48 44.71	
	14742.00	90.10	359.32	10025.70	4698.79	4662.97	-677.57	0.82	450789.99	702335.84	N 32 14 0.71 W 103 48 44.72	
	14836.00	89.93	359.07	10025.88	4792.64	4758.96	-679.80	0.32	450883.49	702334.52	N 32 14 0.84 W 103 48 44.73	
	14930.00	90.03										

Comments	MD (ft)	Incl (°)	Azin Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLG (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Proj to TD	20288.00	88.17	358.22	10064.18	10248.95	10225.98	688.34	0.00	456352.85	702387.07	N 32 15 12.85	W 103 48 44.51

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 5 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1' 58.425	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