

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

30-015-45228

January 17, 2019

OXY USA INC.

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 19 2019

RECEIVED

Re:

CLIENT: OXY USA INC.
WELL: Platinum MDP1 34-3 Federal Com 3H
FIELD: Ingle Wells Bone Spring

RIG: HP 556
COUNTY: EDDY
API NO: 30-015-45228
JOB NO: 18MLD4275

34, 23S, 31E, Eddy NM
32.26709 103.76582

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>
Mahmood Al Sabti FE	Platinum MDP1 34-3 Federal Com 3H Original Hole	741.00 Ft to 20160.00 Ft	December 2, 2018 to January 11, 2019	TelePacer/SlimPulse Third Party Corrections

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

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:
34, 23S, 31E, Eddy NM
32.26709 103.76582

I, Mahmood Al Sabti certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 02, 2018 through January 11, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 741.00 feet to a depth of 20160.00 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 Platinum MDPI 34-3 Federal Com 3H Well (Original Hole) API No. 30-015-45228 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 M.S. [Signature]
Mahmood Al Sabti
FE

Subscribed and Sworn to before me this 17th day of January (month) 2019 (yr)

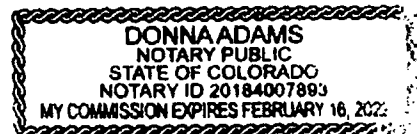
My Commission expires:

2-16-2022

D. Adams - (signature)

Notary Public

Adams County Colorado
(County State)



Schlumberger

OXY

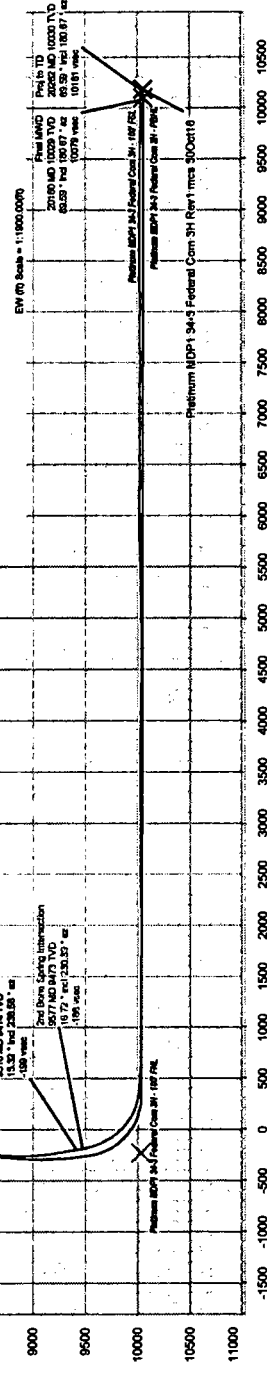
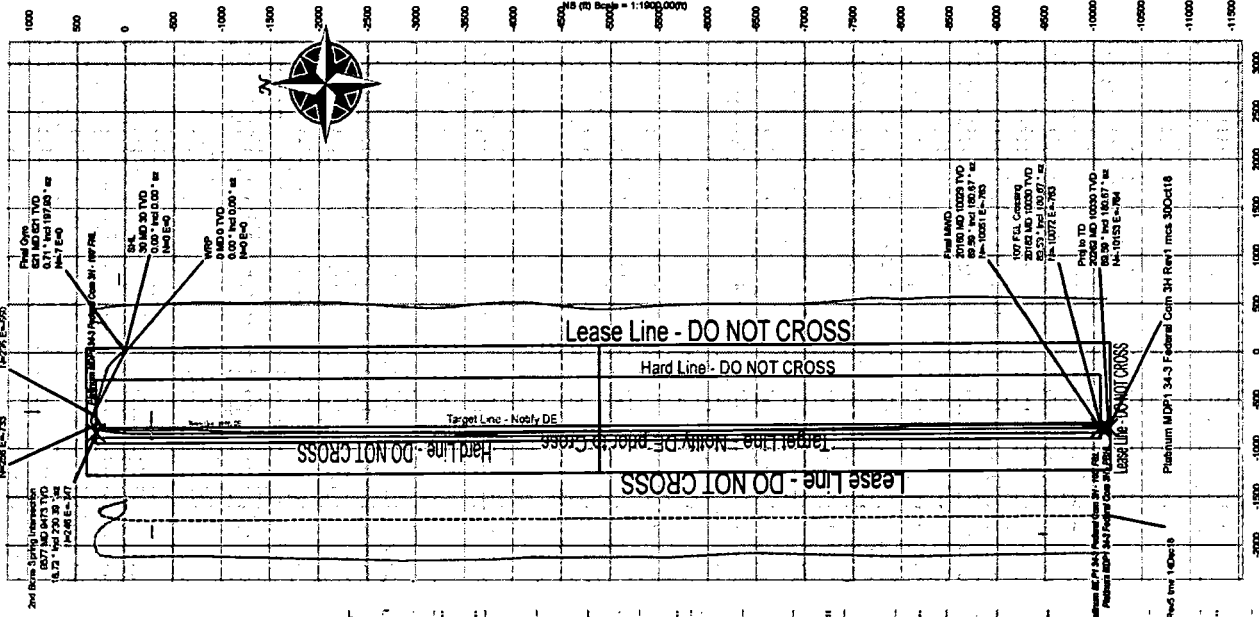
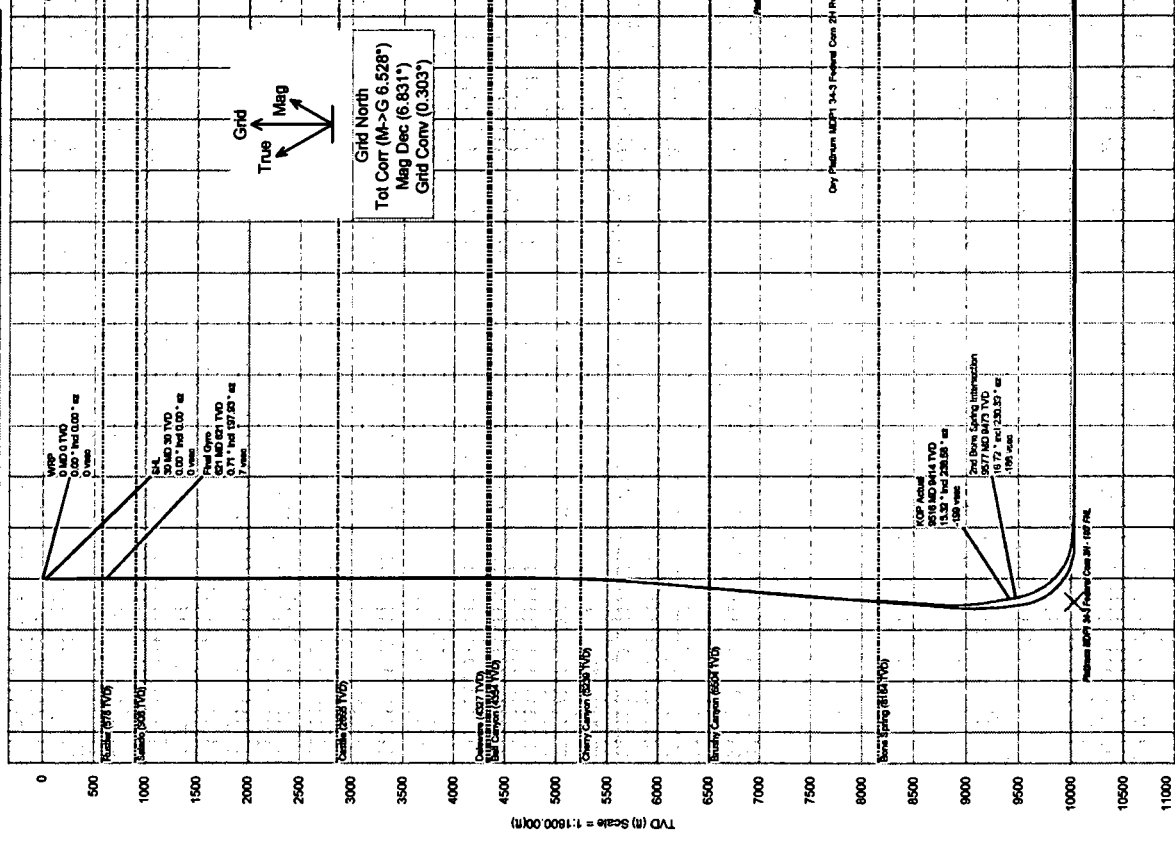


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Platinum MDP1 34-3 Federal Com 3H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 3H

Gravity & Magnetic Parameters			
Model: 6P1	Dip: 0.838°	Date: 26-Dec-2018	
Magn: 0.831°	FE: 40023.3nT	Gravity FS: 988.4nT/mg (0.0008 Based)	
Surface Location			
NAD83 New Mexico State Plane, Eastern Zone, US Feet			
Lat: N 32 15 1.81	Northings: 48182.896US	Grid Contour: 0.303°	
Long: W 103 48 38.88	Eastings: 716742.29US	Scale Feet: 0.9999433	

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	NPY(S-)	E(Y-M-H)	DLS
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00
Final Gyro	621.00	0.71	197.93	620.95	7.41	-7.46	0.32	0.17
100' FNL Crossing	9215.00	15.28	246.90	9125.00	-244.49	296.31	-650.03	2.10
KOP Actual	9516.00	15.32	238.56	8414.10	-188.74	256.10	-733.45	1.42
2nd Bone Spring Intersection	9577.27	16.72	230.39	8473.00	-187.87	246.26	-747.15	4.32
Final MWD	20160.00	89.59	180.87	10028.46	10079.40	-10050.52	-782.61	0.26
100' FSL Crossing	20181.90	89.59	180.67	10028.62	10101.25	-10072.42	-782.87	0.00
Proj to TD	20262.00	89.59	180.67	10030.19	10181.18	-10152.51	-783.81	0.00



Vertical Section (ft) Azim = 184.43° Scale = 1:1800.00(ft) Origin = 0NU-S, 0E-W



Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD **Survey Geodetic Report** **(Def Survey)**

Report Date:	January 11, 2019 - 10:32 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	184.426 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Blot:	Oxy Platinum MDP1 34-3 Federal Com 3H / Oxy Platinum MDP1 34-3 Federal Com 3H	TVD Reference Datum:	RKB - 30'
Well:	Oxy Platinum MDP1 34-3 Federal Com 3H	TVD Reference Elevation:	3457.600 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3427.600 ft above MSL
UWI / API#:	H&P 556 / 30-015-45228	Magnetic Declination:	6.831 °
Survey Name:	Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD	Total Gravity Field Strength:	998.4470mgn (9.80665 Based)
Survey Date:	October 25, 2018	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	226.177 ° / 11310.840 R / 6.713 / 1.127	Total Magnetic Field Strength:	48020.300 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.993 °
Location Lat / Long:	N 32° 16' 1.51117", W 103° 45' 56.95560"	Declination Date:	December 26, 2018
Location Grid N/E Y/X:	N 461362.890 RUS, E 716748.920 RUS	Magnetic Declination Model:	IFR1
CRS Grid Convergence Angle:	0.3030 °	North Reference:	Grid North
Grid Scale Factor:	0.99994433	Grid Convergence Used:	0.3030 °
Version / Patch:	2.10.753.0	Total Corr Mag North->Grid North:	6.5280 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461362.89	716748.92	N 32 16 1.51	W 103 45 56.96
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	461362.89	716748.92	N 32 16 1.51	W 103 45 56.96
	103.00	0.54	170.10	103.00	0.33	-0.34	0.06	0.74	461362.55	716748.98	N 32 16 1.51	W 103 45 56.95
	160.00	0.72	172.75	160.00	0.94	-0.96	0.15	0.32	461361.93	716749.07	N 32 16 1.50	W 103 45 56.95
	248.00	0.95	164.57	247.99	2.17	-2.21	0.41	0.29	461360.88	716749.33	N 32 16 1.49	W 103 45 56.95
	339.00	0.85	173.54	338.98	3.50	-3.56	0.69	0.23	461359.33	716749.61	N 32 16 1.48	W 103 45 56.95
	433.00	0.82	179.39	432.97	4.80	-4.88	0.77	0.09	461358.01	716749.69	N 32 16 1.48	W 103 45 56.95
	528.00	0.84	191.44	527.96	6.17	-6.24	0.63	0.18	461356.85	716749.55	N 32 16 1.45	W 103 45 56.95
Final Gyro	621.00	0.71	197.93	620.95	7.41	-7.46	0.32	0.17	461355.43	716749.24	N 32 16 1.44	W 103 45 56.95
	741.00	0.16	184.68	740.94	8.30	-8.33	0.08	0.46	461354.56	716749.00	N 32 16 1.43	W 103 45 56.96
	832.00	0.08	358.90	831.94	8.36	-8.39	0.07	0.26	461354.50	716748.99	N 32 16 1.43	W 103 45 56.96
	1102.00	0.11	109.01	1101.94	8.24	-8.29	0.31	0.06	461354.60	716749.23	N 32 16 1.43	W 103 45 56.95
	1194.00	0.14	177.87	1193.94	8.37	-8.43	0.40	0.16	461354.46	716749.32	N 32 16 1.43	W 103 45 56.95
	1285.00	0.08	66.51	1284.94	8.46	-8.52	0.46	0.20	461354.37	716749.38	N 32 16 1.43	W 103 45 56.95
	1377.00	0.11	60.94	1376.94	8.38	-8.45	0.60	0.03	461354.44	716749.52	N 32 16 1.43	W 103 45 56.95
	1471.00	0.11	16.10	1470.94	8.24	-8.32	0.70	0.09	461354.57	716749.62	N 32 16 1.43	W 103 45 56.95
	1660.00	0.08	35.55	1659.94	7.95	-8.04	0.83	0.02	461354.85	716749.75	N 32 16 1.43	W 103 45 56.95
	1754.00	0.14	153.52	1753.94	7.99	-8.09	0.92	0.20	461354.81	716749.84	N 32 16 1.43	W 103 45 56.95
	1942.00	0.19	93.23	1941.94	8.18	-8.31	1.33	0.09	461354.58	716750.25	N 32 16 1.43	W 103 45 56.94
	2131.00	0.08	122.89	2130.94	8.24	-8.40	1.75	0.07	461354.67	716750.67	N 32 16 1.43	W 103 45 56.94
	2320.00	0.03	285.71	2319.94	8.29	-8.46	1.82	0.06	461354.43	716750.74	N 32 16 1.43	W 103 45 56.93
	2508.00	0.16	41.69	2507.94	8.07	-8.25	2.48	0.06	461355.10	716751.38	N 32 16 1.43	W 103 45 56.93
	2698.00	0.26	52.74	2697.94	7.57	-7.79	2.58	0.24	461355.14	716751.50	N 32 16 1.43	W 103 45 56.93
	2887.00	0.19	225.80	2886.94	7.52	-7.75	2.58	0.14	461354.88	716751.45	N 32 16 1.43	W 103 45 56.93
	3077.00	0.11	104.03	3076.94	7.79	-8.01	2.53	0.22	461354.77	716751.47	N 32 16 1.43	W 103 45 56.93
	3171.00	0.14	216.75	3170.94	7.90	-8.12	2.55	0.44	461354.77	716751.47	N 32 16 1.43	W 103 45 56.93
	3361.00	0.11	122.31	3360.94	8.18	-8.41	2.57	0.10	461354.48	716751.49	N 32 16 1.43	W 103 45 56.93
	3550.00	0.15	164.73	3549.94	8.50	-8.74	2.78	0.05	461354.15	716751.70	N 32 16 1.42	W 103 45 56.92
	3740.00	0.11	53.64	3739.94	8.62	-8.87	3.00	0.11	461354.02	716751.92	N 32 16 1.42	W 103 45 56.92
	3834.00	0.17	183.49	3833.94	8.70	-8.96	3.04	0.28	461353.93	716751.96	N 32 16 1.42	W 103 45 56.92
	3928.00	0.26	144.73	3927.94	9.00	-9.27	3.13	0.21	461353.62	716752.05	N 32 16 1.42	W 103 45 56.92
	4118.00	0.14	175.13	4117.94	9.58	-9.85	3.40	0.08	461353.04	716752.32	N 32 16 1.41	W 103 45 56.92
	4307.00	0.11	138.57	4306.94	9.91	-10.22	3.54	0.04	461352.67	716752.45	N 32 16 1.41	W 103 45 56.92
	4360.00	0.09	332.06	4359.94	9.91	-10.22	3.55	0.37	461352.67	716752.47	N 32 16 1.41	W 103 45 56.91
	4517.00	0.58	78.44	4516.93	9.59	-9.95	4.27	0.39	461352.94	716753.19	N 32 16 1.41	W 103 45 56.91
	4706.00	0.76	41.02	4705.92	8.32	-8.81	6.03	0.24	461354.08	716754.95	N 32 16 1.42	W 103 45 56.89
	4894.00	1.30	1.69	4893.89	5.19	-5.74	6.91	0.46	461357.15	716755.83	N 32 16 1.45	W 103 45 56.88
	5083.00	1.91	347.12	5082.82	0.04	-0.53	6.27	0.39	461362.36	716755.19	N 32 16 1.51	W 103 45 56.88
	5272.00	2.70	335.76	5271.66	-8.87	6.60	3.74	0.48	461369.49	716752.66	N 32 16 1.58	W 103 45 56.91
	5461.00	3.49	332.50	5460.39	-15.66	15.77	-0.74	0.43	461376.85	716748.18	N 32 16 1.87	W 103 45 57.03
	5650.00	4.04	331.53	5648.98	-26.13	26.72	-6.57	0.29	461369.61	716747.35	N 32 16 1.78	W 103 45 57.03
	5745.00	4.61	328.79	5743.71	-32.05	32.93	-10.15	0.47	461395.82	716728.64	N 32 16 1.94	W 103 45 57.07
	5935.00	5.42	324.73	5932.98	-45.16	46.78	-19.28	0.61	461409.67	716720.64	N 32 16 1.98	W 103 45 57.18
	6029.00	5.68	321.93	6026.92	-52.12	54.20	-24.82	0.67	461417.09	716724.11	N 32 16 2.05	W 103 45 57.24
	6124.00	6.15	319.69	6121.00	-59.33	61.81	-31.11	0.38	461424.80	716717.81	N 32 16 2.13	W 103 45 57.31
	6218.00	6.72	319.51	6214.41	-66.80	69.93	-37.94	0.61	461432.82	716710.89	N 32 16 2.21	W 103 45 57.39
	6312.00	7.05	318.31	6307.73	-74.69	78.42	-45.34	0.38	461441.31	716703.58	N 32 16 2.29	W 103 45 57.48
	6498.00	7.60	315.64	6492.21	-90.71	95.74	-61.54	0.35	461458.63	716687.39	N 32 16 2.46	W 103 45 57.67
	6593.00	8.00	313.50	6588.33	-99.02	104.79	-70.72	0.51	461467.68	716678.21	N 32 16 2.55	W 103 45 57.77
	6687.00	8.08	313.55	6679.41	-107.32	113.85	-80.24	0.09	461476.74	716668.88	N 32 16 2.64	W 103 45 57.88
	6781.00	8.24	312.56	6772.48	-115.65	122.96	-89.99	0.23	461485.84	716658.93	N 32 16 2.73	W 103 45 58.00
	6829.00	8.30	311.71	6819.96	-119.87	127.59	-95.11	0.28	461490.48	716653.81	N 32 16 2.78	W 103 45 58.06
	6878.00	8.41	310.69	6868.44	-124.13	132.28	-100.47	0.38	461495.16	716648.46	N 32 16 2.83	W 103 45 58.12
	6972.00	8.65	311.25	6961.40	-132.44	141.42	-111.00	0.27	461504.31	716637.93	N 32 16 2.92	W 103 45 58.24
	7066.00	8.63	309.79	7054.33	-140.78	150.60	-121.73	0.23	461513.48	716627.20	N 32 16 3.01	W 103 45 58.36
	7175.00	8.86	308.49	7162.06	-150.19	161.06	-134.58	0.28	461523.94	716614.34	N 32 16 3.11	W 103 45 58.51
	7269.00	12.01	297.92	7254.31	-158.15	170.14	-148.90	3.91	461533.02	716606.03	N 32 16 3.20	W 103 45 58.68
	7458.00	16.17	287.98	7437.81	-172.16	187.49	-161.33	2.54	461550.36	716557.60	N 32 16 3.38	W 103 45 59.17
	7553.00	15.90	288.36	7529.11	-178.39	195.67	-171.26	0.30	461558.55	716548.67	N 32 16 3.46	W 103 45 59.48
	7741.00	15.97	287.80	7709.89	-190.58	211.69	-265.33	0.09	461574.56	716483.61	N 32 16 3.62	W 103 46 00.03
	7936.00	15.53	288.53	7901.32	-196.70	219.72	-289.83	0.51	461582.60	716459.11	N 32 16 3.70	W 103 46 03.32
	8024.00	17.60	284.88	7981.51	-207.99	235.02	-341.17	1.23	461597.90	716407.77	N 32 16 3.85	W 103 46 09.91
	8118.00	15.79	285.18	8062.22	-212.96	242.02	-367.25	1.93	461604.90	716381.69	N 32 16 3.93	W 103 46 12.22
	8212.00	14.79	286.26	8142.22	-217.81	248.73	-391.11	1.11	461611.61	716357.83	N 32 16 3.99	W 103 46 17.76
	8306.00	14.08	285.97	8223.25	-222.56	255.24	-413.62	0.76	461618.12	716333.33	N 32 16 4.06	W 103 46 1.50
	8400.00	15.45	285.07	8304.14	-227.16	261.64	-436.70	1.48	461624.52	716312.24	N 32 16 4.12	W 103 46 2.03
	8494.00	16.36	284.95	8384.54	-231.89	268.31	-461.58	0.97	461631.19	716287.22	N 32 16 4.19	W 103 46 2.31
	8588.00	16.73	286.68	8464.94	-237.52	275.06	-488.84	2.13	461638.94	716260.11	N 32 16 4.27	W 103 46 2.63
	8682.00	19.42	289.15	8613.00	-244.69	285.52	-516.06	2.58	461648.39	716230.89	N 32 16 4.38	W 103 46 2.97
	8776.00	18.99	288.08	8701.77	-252.27	295.39	-547.36	0.59	461658.27	716201.59	N 32 16 4.46	W 103 46 3.31
	8870.00	16.31	285.41	8791.34	-258.40	303.65	-574.63	2.98	461668.52	716174.33	N 32 16 4.55	W 103 46 3.63
	8964.00	14.50	274.75	8881.98	-260.98	308.13	-599.08	3.57	461671.00	716149.87	N 32 16 4.59	W 103 46 3.91
	9058.00	14.27	262.13	8973.05	-258.58	307.52	-622.29	3.34	461670.39	716126.66	N 32 16 4.59	W 103 46 4.18
	9152.00	14.52	251.12	9064.12	-251.45	302.12	-644.92	2.92	461664.99	716104.03	N 32 16 4.53	W 103 46 4.45
	9215.00	15.28	248.90	9125.00	-244.49	298.31	-680.03	2.10	461659.18	716088.93	N 32 16 4.48	W 103 46 4.62
	9247.00	15.69	244.91	9155.84	-240.41	292.82	-687.83	2.10	461655.69	716081.13	N 32 16 4.44	W 103 46 4.72
100' FNL Crossing												

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9341.00	16.72	241.30	9248.11	-226.78	280.93	-691.20	1.53	461643.81	716037.78	N 32 16 4.33	W 103 46 4.99
	9438.00	16.45	239.02	9337.16	-211.49	267.45	-714.72	0.74	461630.32	716034.24	N 32 16 4.19	W 103 46 5.26
KOP Actual 2nd Bone Spring Intersection	9518.00	15.32	238.56	9414.10	-198.74	256.10	-733.45	1.42	461618.98	716015.51	N 32 16 4.08	W 103 46 5.48
	9577.27	16.72	230.39	9473.00	-187.87	248.28	-747.15	4.32	461609.14	716001.82	N 32 16 3.99	W 103 46 5.64
	9684.00	19.14	221.06	9555.53	-167.78	227.58	-766.10	4.32	461590.46	715982.86	N 32 16 3.80	W 103 46 5.88
	9758.00	26.35	198.26	9642.33	-135.05	196.05	-782.81	11.89	461558.93	715966.15	N 32 16 3.49	W 103 46 6.06
	9852.00	30.98	188.59	9724.84	-90.64	152.28	-792.97	6.94	461515.17	715955.89	N 32 16 3.06	W 103 46 6.18
	9946.00	39.80	185.46	9801.41	-36.33	98.32	-799.46	9.60	461461.20	715949.51	N 32 16 2.53	W 103 46 6.26
	10041.00	51.08	181.86	9867.97	31.22	30.88	-803.57	12.17	461393.77	715945.40	N 32 16 1.86	W 103 46 6.31
	10135.00	57.66	182.36	9922.70	107.52	-45.42	-806.39	7.01	461317.47	715942.58	N 32 16 1.10	W 103 46 6.35
	10229.00	69.10	180.37	9964.75	191.29	-129.29	-808.32	12.32	461233.61	715940.65	N 32 16 0.27	W 103 46 6.38
	10324.00	75.39	180.24	9993.71	281.48	-219.72	-808.80	6.62	461143.18	715940.17	N 32 15 59.38	W 103 46 6.39
	10418.00	82.82	179.15	10011.46	373.41	-311.96	-808.29	7.99	461050.95	715940.67	N 32 15 58.47	W 103 46 6.39
	10513.00	87.66	177.88	10019.34	467.55	-406.57	-805.92	5.24	460956.34	715943.05	N 32 15 57.53	W 103 46 6.37
	10557.00	87.53	178.00	10021.19	511.24	-450.51	-804.38	0.30	460912.41	715944.59	N 32 15 57.10	W 103 46 6.35
	10744.00	89.62	179.84	10025.84	697.30	-637.40	-800.86	1.49	460725.53	715948.11	N 32 15 55.25	W 103 46 6.32
	10931.00	89.66	183.82	10027.01	884.07	-824.26	-806.83	2.13	460538.68	715942.14	N 32 15 53.40	W 103 46 6.40
	11024.00	89.62	183.76	10027.60	977.06	-917.05	-812.97	0.08	460445.89	715935.99	N 32 15 52.48	W 103 46 6.48
	11213.00	90.35	182.81	10027.65	1166.01	-1105.78	-823.48	0.72	460257.20	715925.49	N 32 15 50.81	W 103 46 6.61
	11402.00	89.31	179.89	10028.21	1354.70	-1294.69	-827.60	1.54	460068.27	715921.37	N 32 15 48.74	W 103 46 6.67
	11497.00	90.04	179.99	10028.75	1449.40	-1389.69	-827.50	0.78	459973.28	715921.47	N 32 15 47.80	W 103 46 6.68
	11591.00	88.63	179.33	10029.84	1543.07	-1483.68	-826.94	1.68	459879.30	715922.03	N 32 15 46.87	W 103 46 6.68
	11686.00	88.69	178.38	10032.06	1637.59	-1578.63	-825.04	1.00	459784.35	715923.92	N 32 15 45.93	W 103 46 6.66
	11875.00	89.86	181.29	10034.45	1825.95	-1787.59	-824.50	1.66	459595.40	715924.47	N 32 15 44.06	W 103 46 6.67
	11969.00	89.83	179.94	10034.71	1919.74	-1861.59	-825.51	1.44	459501.41	715923.46	N 32 15 43.13	W 103 46 6.68
	12069.00	89.97	181.15	10034.88	2019.51	-1961.58	-826.48	1.22	459401.42	715922.51	N 32 15 42.14	W 103 46 6.70
	12159.00	90.31	180.08	10034.66	2109.31	-2051.57	-827.43	1.25	459311.44	715921.51	N 32 15 41.25	W 103 46 6.72
	12253.00	93.51	181.19	10031.53	2203.04	-2145.50	-828.47	3.60	459217.51	715920.50	N 32 15 40.32	W 103 46 6.74
	12348.00	90.65	180.97	10028.08	2297.80	-2240.41	-830.25	3.02	459122.61	715918.71	N 32 15 39.39	W 103 46 6.76
	12443.00	90.35	179.83	10027.25	2392.56	-2335.40	-830.92	1.24	459027.62	715918.05	N 32 15 38.45	W 103 46 6.78
	12537.00	90.04	180.42	10026.93	2486.30	-2429.40	-831.12	0.71	458933.63	715917.85	N 32 15 37.52	W 103 46 6.78
	12632.00	90.14	179.66	10026.78	2581.02	-2524.40	-831.19	0.81	458838.63	715917.78	N 32 15 36.58	W 103 46 6.79
	12727.00	90.11	180.63	10026.58	2675.75	-2619.40	-831.43	1.02	458743.64	715917.54	N 32 15 35.64	W 103 46 6.80
	12821.00	90.45	180.94	10026.12	2769.56	-2713.39	-832.72	0.49	458649.66	715916.25	N 32 15 34.71	W 103 46 6.82
	12915.00	90.72	180.10	10025.16	2863.34	-2807.38	-833.57	0.94	458555.67	715915.40	N 32 15 33.78	W 103 46 6.84
	13105.00	89.62	181.25	10024.59	3052.92	-2997.36	-835.81	0.84	458365.70	715913.16	N 32 15 31.90	W 103 46 6.87
	13200.00	90.52	180.00	10024.48	3147.71	-3092.35	-836.84	1.62	458270.72	715912.12	N 32 15 30.96	W 103 46 6.89
	13294.00	90.41	179.64	10023.71	3241.40	-3186.35	-836.55	0.40	458176.73	715912.42	N 32 15 30.03	W 103 46 6.89
	13484.00	90.35	181.47	10022.45	3430.96	-3376.33	-838.39	0.96	457986.76	715910.58	N 32 15 28.15	W 103 46 6.93
	13578.00	90.48	182.87	10021.77	3524.88	-3470.25	-841.95	1.50	457892.84	715907.02	N 32 15 27.22	W 103 46 6.97
	13767.00	89.21	178.81	10022.28	3713.47	-3659.19	-844.72	2.25	457703.91	715904.25	N 32 15 25.35	W 103 46 7.02
	13861.00	89.49	178.30	10023.35	3806.97	-3753.15	-842.35	0.62	457609.95	715906.62	N 32 15 24.42	W 103 46 7.06
	13956.00	89.42	177.77	10024.25	3901.37	-3848.09	-839.09	0.56	457515.02	715909.88	N 32 15 23.48	W 103 46 6.96
	14144.00	88.32	179.06	10027.96	4088.29	-4035.98	-833.89	0.90	457327.15	715915.08	N 32 15 21.62	W 103 46 6.91
	14239.00	89.42	179.26	10029.84	4182.87	-4130.95	-832.50	1.18	457232.18	715916.47	N 32 15 20.85	W 103 46 6.90
	14428.00	88.59	178.18	10033.12	4370.90	-4319.87	-828.28	0.72	457043.27	715920.69	N 32 15 18.81	W 103 46 6.87
	14617.00	89.66	178.97	10036.00	4558.89	-4508.78	-823.58	0.70	456854.37	715925.39	N 32 15 16.94	W 103 46 6.82
	14711.00	89.97	179.57	10036.31	4652.51	-4602.77	-822.38	0.72	456760.38	715926.59	N 32 15 16.01	W 103 46 6.82
	14901.00	90.83	177.91	10034.98	4841.58	-4792.71	-818.20	0.98	456570.45	715930.76	N 32 15 14.13	W 103 46 6.78
	15090.00	91.21	179.59	10031.62	5029.60	-4981.63	-814.08	0.91	456381.55	715934.88	N 32 15 12.26	W 103 46 6.74
	15184.00	91.31	180.00	10029.55	5123.27	-5076.61	-813.75	0.45	456287.57	715935.22	N 32 15 11.33	W 103 46 6.74
	15379.00	91.14	180.37	10027.52	5217.99	-5170.59	-814.05	0.43	456192.60	715934.91	N 32 15 10.39	W 103 46 6.75
	15573.00	90.86	180.24	10025.86	5311.73	-5264.57	-814.55	0.33	456098.62	715934.41	N 32 15 9.48	W 103 46 6.76
	15467.00	90.80	180.11	10024.43	5405.46	-5358.56	-814.84	0.14	456004.64	715934.13	N 32 15 8.53	W 103 46 6.77
	15562.00	91.14	179.90	10022.74	5500.16	-5453.54	-814.85	0.34	455909.66	715934.12	N 32 15 7.59	W 103 46 6.78
	15656.00	91.10	180.01	10020.91	5593.86	-5547.53	-814.77	0.12	455815.68	715934.19	N 32 15 6.66	W 103 46 6.78
	15751.00	90.72	180.42	10019.40	5688.59	-5642.51	-815.13	0.59	455720.70	715933.84	N 32 15 5.72	W 103 46 6.79
	15845.00	90.69	179.83	10018.24	5782.32	-5736.51	-815.34	0.63	455626.72	715933.63	N 32 15 4.79	W 103 46 6.80
	15940.00	90.45	179.55	10017.29	5876.99	-5831.50	-814.82	0.39	455533.73	715934.14	N 32 15 3.85	W 103 46 6.80
	16034.00	90.38	179.00	10016.51	5970.61	-5925.49	-813.83	0.59	455437.74	715935.33	N 32 15 2.92	W 103 46 6.79
	16128.00	89.59	178.56	10016.64	6064.23	-6019.48	-812.45	1.03	455343.76	715936.52	N 32 15 1.99	W 103 46 6.79
	16223.00	89.52	178.99	10017.38	6158.84	-6114.47	-811.25	0.60	455248.77	715937.72	N 32 15 1.05	W 103 46 6.78
	16318.00	89.45	178.78	10018.23	6253.39	-6209.45	-809.38	0.25	455153.80	715939.58	N 32 15 0.11	W 103 46 6.76
	16412.00	89.76	178.68	10018.88	6348.92	-6303.42	-807.27	0.35	455059.83	715941.70	N 32 14 59.18	W 103 46 6.74
	16506.00	89.90	179.17	10019.16	6440.49	-6397.40	-805.49	0.56	454965.86	715943.48	N 32 14 58.25	W 103 46 6.73
	16601.00	90.52	179.08	10018.81	6535.08	-6492.39	-804.04	0.66	454870.87	715944.93	N 32 14 57.31	W 103 46 6.72
	16696.00	89.97	179.18	10018.40	6629.67	-6587.38	-802.60	0.59	454775.89	715946.37	N 32 14 56.37	W 103 46 6.71
	16790.00	89.76	178.84	10018.62	6723.25	-6681.36	-800.97	0.43	454681.91	715948.00	N 32 14 55.44	W 103 46 6.69
	16885.00	89.97	178.78	10018.85	6817.80	-6776.34	-799.00	0.23	454586.94	715949.97	N 32 14 54.50	W 103 46 6.68
	17074.00	89.90	179.72	10019.06	7006.02	-6965.32	-796.52	0.50	454397.97	715952.44	N 32 14 52.63	W 103 46 6.66
	17168.00	90.10	179.47	10019.06	7099.69	-7059.32	-795.86	0.34	454303.97	715953.11	N 32 14 51.70	W 103 46 6.66
	17262.00	89.86	179.15	10019.10	7193.31	-7153.32	-794.73	0.43	454209.99	715954.24	N 32 14 50.77	W 103 46 6.65
	17357.00	88.11	178.64	10020.78	7287.85	-7248.28	-792.90	1.92	454115.03	715956.07	N 32 14 49.83	W 103 46 6.63
	17452.00	89.83	177.67	10022.49	7382.28	-7343.22	-790.00	1.98	454020.10	715958.96	N 32 14 48.89	W 103 46 6.61
	17546.00	90.35	178.84	10022.34	7475.75	-7437.17	-787.31	1.17	453926.14	715961.66	N 32 14 47.9	

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 ° ' '')
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey				
	1	0.000	30.000	1/58.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD				
	1	30.000	30.000	Act Strs	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD				
	1	30.000	621.000	Act Strs	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD				
	1	621.000	4360.000	Act Strs	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				
	1	4360.000	7066.000	Act Strs	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				
	1	7066.000	19910.000	Act Strs	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				
	1	19910.000	20262.000	Act Strs	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				

...Original Borehole\Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD