

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

January 17, 2019

RECEIVED

OXY USA INC.

MAY 16 2019

DISTRICT II-ARTESIA O.C.D.

Re:

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

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

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

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 MDPI 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:

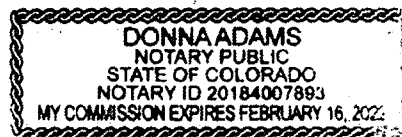
2-16-2022

D. Adams

(signature)

Notary Public

Adams County Colorado
(County State)





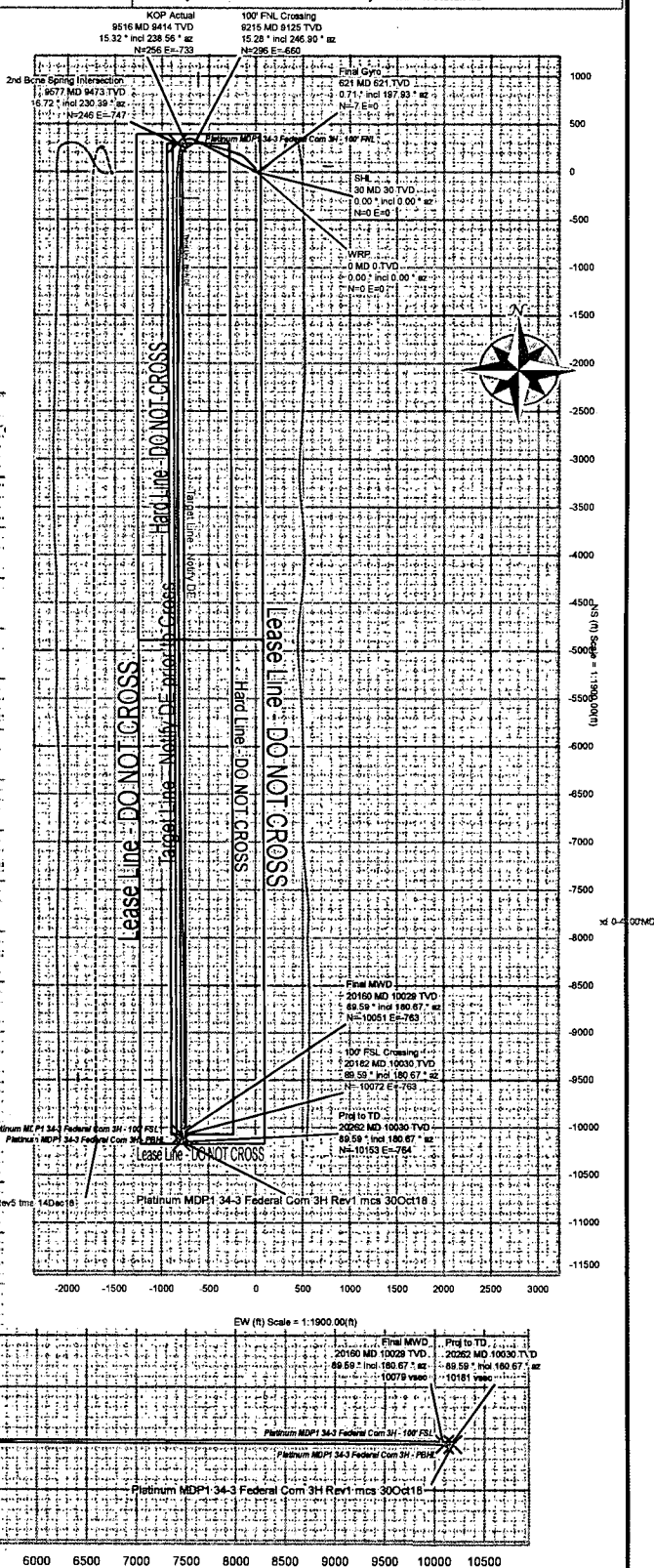
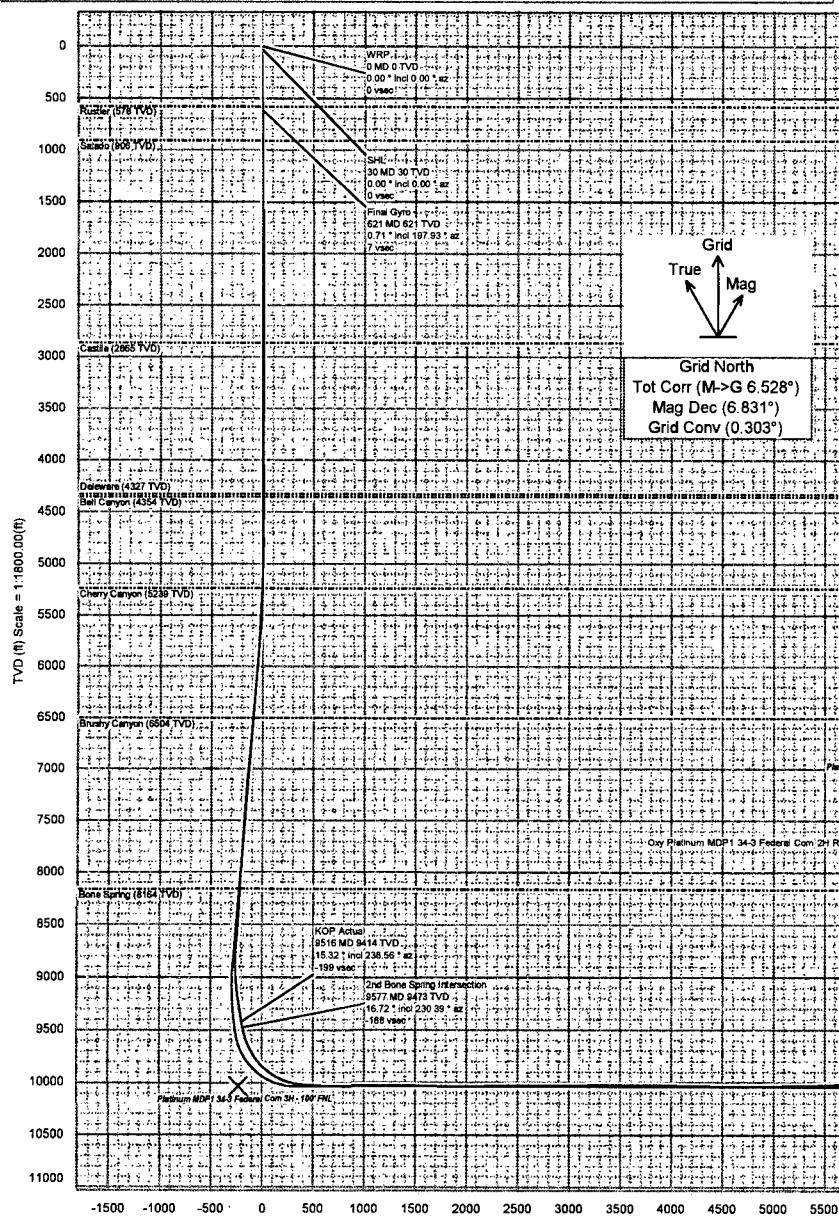
OXY



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				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	59.933°	Date:	26-Dec-2018	Lat:	N 32 16 1.51	Northing:	461362.891US	Grid Conv:	0.303°	Stat:	MDP1 34-3	TVD Ref:	RG3 - 30'(MSL 68' above MSL)
MagDec:	6.831°	FS:	480.26.3nT	Gravity FS:	988.447mgm (9.80665 Based)	Lon:	W 103 45 56.96	Easting:	716748.926US	Scale Fact:	0.99994633	Plan:	Oxy Platinum	Federal Conn 3H	
													Oxy Platinum	MDP1 34-3 Federal Conn 3H	Gyro-MW0 0 to 202828 MD

	Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	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	-660.03	2.10
KOP Actual	9516.00	15.32	238.56	9414.10	-198.74	256.10	-733.45	1.42
2nd Bone Spring Intersection	9577.27	16.72	230.39	9473.00	-187.87	246.26	-747.15	4.32
Final MWD	20160.00	89.59	180.67	10029.46	10079.40	-10050.52	-762.61	0.26
100' FSL Crossing	20181.90	89.59	180.67	10029.62	10101.25	-10072.42	-762.87	0.00
Proj to TD	20262.00	89.59	180.67	10030.19	10181.18	-10152.51	-763.81	0.00



Vertical Section (ft) Azim = 184.43° Scale = 1:1800.00(ft) Origin = 0N/-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
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 3H / Oxy Platinum MDP1 34-3 Federal Com 3H
 Well: Oxy Platinum MDP1 34-3 Federal Com 3H
 Borehole: Original Borehole
 UWI / API#: H&P 556 / 30-015-45228
 Survey Name: Oxy Platinum MDP1 34-3 Federal Com 3H Gyro+MWD 0 to 20262ft MD
 Survey Date: October 25, 2018
 Tort / AHD / DDI / ERD Ratio: 226.177' / 11310.640 ft / 6.713' / 1.127
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 1.51117", W 103° 45' 56.95560"
 Location Grid N/E Y/X: N 461362.890 RUS, E 716748.920 RUS
 CRS Grid Convergence Angle: 0.3030°
 Grid Scale Factor: 0.99994433
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 184.426° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB - 30'
 TVD Reference Elevation: 3457.600 ft above MSL
 Seabed / Ground Elevation: 3427.600 ft above MSL
 Magnetic Declination: 6.831°
 Total Gravity Field Strength: 998.4470mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48020.300 nT
 Magnetic Dip Angle: 59.993°
 Declination Date: December 26, 2018
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3030°
 Total Corr Mag North->Grid North: 6.5280°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim 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	0.79	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' 1.46	W 103° 45' 56.95
	528.00	0.84	191.44	527.96	6.17	-6.24	0.63	0.18	461356.55	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	184.66	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	461354.49	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	1.94	0.09	461354.64	716750.86	N 32° 16' 1.43	W 103° 45' 56.93
	2698.00	0.26	52.74	2697.94	7.57	-7.79	2.46	0.06	461355.10	716751.38	N 32° 16' 1.43	W 103° 45' 56.93
	2887.00	0.19	225.80	2886.94	7.52	-7.75	2.58	0.24	461355.14	716751.50	N 32° 16' 1.43	W 103° 45' 56.93
	3077.00	0.11	104.03	3076.94	7.79	-8.01	2.53	0.14	461354.88	716751.45	N 32° 16' 1.43	W 103° 45' 56.93
	3171.00	0.14	216.75	3170.94	7.90	-8.12	2.55	0.22	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	193.49	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	9.56	-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	-6.87	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	461378.65	716748.18	N 32° 16' 1.57	W 103° 45' 56.96
	5650.00	4.04	331.53	5648.98	-26.13	26.72	-6.57	0.29	461389.61	716742.35	N 32° 16' 1.78	W 103° 45' 57.03
	5745.00	4.61	328.79	5743.71	-32.05	32.93	-10.15	0.64	461395.82	716738.78	N 32° 16' 1.84	W 103° 45' 57.07
	5935.00	5.42	324.73	5932.98	-45.16	46.78	-19.28	0.47	461409.67	716729.64	N 32° 16' 1.98	W 103° 45' 57.18
	6029.00	5.88	321.93	6026.52	-52.12	54.20	-24.82	0.57	461417.09	716724.11	N 32° 16' 2.05	W 103° 45' 57.24
	6124.00	6.15	319.69	6121.00	-59.33	61.91	-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	716710.99	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
	6693.00	8.00	313.59	6686.33	-99.02	104.79	-70.72	0.51	461467.68	716678.21	N 32° 16' 2.55	W 103° 45' 57.77
	6808.00	8.08	313.55	6809.41	-107.32	113.85	-80.24	0.09	461476.74	716668.68	N 32° 16' 2.64	W 103° 45' 57.88
	6871.00	8.24	312.56	6872.46	-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	-140.76	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	7254.51	-158.15	170.14	-148.80	3.91	461533.02	716600.03	N 32° 16' 3.20	W 103° 45' 58.68
	7458.00	16.17	287.98	7437.81	-172.16	187.49	-191.33	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	-216.26	0.30	461558.55	716532.67	N 32° 16' 3.46	W 103° 45' 59.46
	7741.00	15.97	287.80	7709.89	-180.58	211.89	-265.33	0.09	461574.56	716483.61	N 32° 16' 3.62	W 103° 46' 0.03
	7836.00	15.53	288.53	7801.32	-186.70	219.72	-289.83	0.51	461582.60	716459.11	N 32° 16' 3.70	W 103° 46' 0.32
	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' 0.91
	8118.00	15.79	285.18	8071.55	-212.96	242.02	-367.25	1.93	461604.90	716381.69	N 32° 16' 3.93	W 103° 46' 1.22
	8212.00	14.79	286.28	8162.22	-217.81	248.73	-391.11	1.11	461611.61	716357.83	N 32° 16' 3.99	W 103° 46' 1.50
	8306.00	14.08	285.97	8253.25	-222.56	255.24	-413.62	0.76	461618.12	716335.33	N 32° 16' 4.06	W 103° 46' 1.76
	8400.00	15.45	285.07	8344.14	-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	8434.54	-231.89	268.31	-461.58	0.97	461631.19	716287.36	N 32° 16' 4.19	W 103° 46' 2.31
	8588.00	18.73	286.68	8524.17	-237.52	276.06	-488.84	2.58	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	-518.06	1.13	461648.39	716230.89	N 32° 16' 4.36	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	461666.52	716174.33	N 32° 16' 4.55	W 103° 46' 3.63
	8964.00	14.50	274.75	8881.98	-260.88	308.13	-599.08	3.57	461671.00	716149.87	N 32° 16' 4.59	W

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KOP Actual 2nd Bone Spring Intersection	9341.00	16.72	241.30	9246.11	-226.76	280.93	-691.20	1.53	461643.81	716057.76	N 32 16 4.33 W 103 46	4.99
	9436.00	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
	9516.00	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	246.26	-747.15	4.32	461609.14	716001.82	N 32 16 3.99 W 103 46	5.64
	9664.00	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	5.86
	9758.00	26.35	198.26	9642.33	-135.05	196.05	-782.81	11.99	461558.93	715966.15	N 32 16 3.49 W 103 46	6.06
	9852.00	30.96	188.59	9724.84	-90.64	152.28	-792.97	6.84	461515.17	715955.99	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	177.98	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	178.84	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	182.61	10027.65	1166.01	-1105.76	-823.48	0.72	460257.20	715925.49	N 32 15 50.61 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	
11581.00	88.63	179.33	10028.84	1543.07	-1483.68	-826.94	1.66	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	-1767.59	-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	-826.46	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	715921.54	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	0.84	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	0.94	458465.70	715913.16	N 32 15 31.70 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	7.00	
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 20.68 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	-822.58	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	4841.56	-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	-5075.61	-813.75	0.45	456287.57	715935.22	N 32 15 11.33 W 103 46	6.74	
15279.00	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	
15373.00	90.86	180.24	10025.88	5311.73	-5264.57	-814.55	0.33	456098.62	715934.41	N 32 15 9.46 W 103 46	6.76	
15467.00	90.90	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	455531.73	715934.14	N 32 15 3.85 W 103 46	6.80	
16034.00	90.38	179.00	10016.61	5970.61	-5925.49	-813.63	0.59	455437.74	715935.33	N 32 15 2.92 W 103 46	6.79	
16128.00	89.59	179.56	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	178.76	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	178.66	10018.88	6346.92	-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	

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	1/98.425	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 Stns	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 Stns	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 Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				
	1	4360.000	7066.000	Act Stns	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 Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				
	1	19910.000	20262.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 3H				