

Oilfield Services, Central U.S. Land
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 22, 2019

OXY USA INC.

RECEIVED

MAY 15 2019

DISTRICT II-ARTESIA O.C.D.

Re:

34, 23S, 31E, Eddy NM
32.26709 103.76571

CLIENT: OXY USA INC.
WELL: Platinum MDP1 34-3 Federal Com 4H
FIELD: Cotton Draw Bone Spring

RIG: HP 556
COUNTY: EDDY
API NO: 3001545229
JOB NO: 18MLD4277

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 4H Original Hole	635.00 Ft to 20348.00 Ft	December 1, 2018 to December 29, 2018	TelePacer/SlimPulse Third Party Corrected

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

Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
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 103.76571

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 01, 2018 through December 29, 2018, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 635.00 feet to a depth of 20348.00 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 MDP1 34-3 Federal Com 4H Well (Original Hole) API No. 3001545229 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 22nd day of January (month) 2019 (yr)

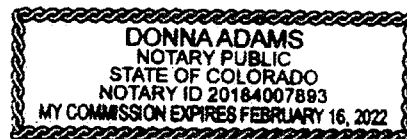
My Commission expires:

2-16-2022

[Signature] Adams
Notary Public

Adams County Colorado
(County State)

(signature)



Schlumberger

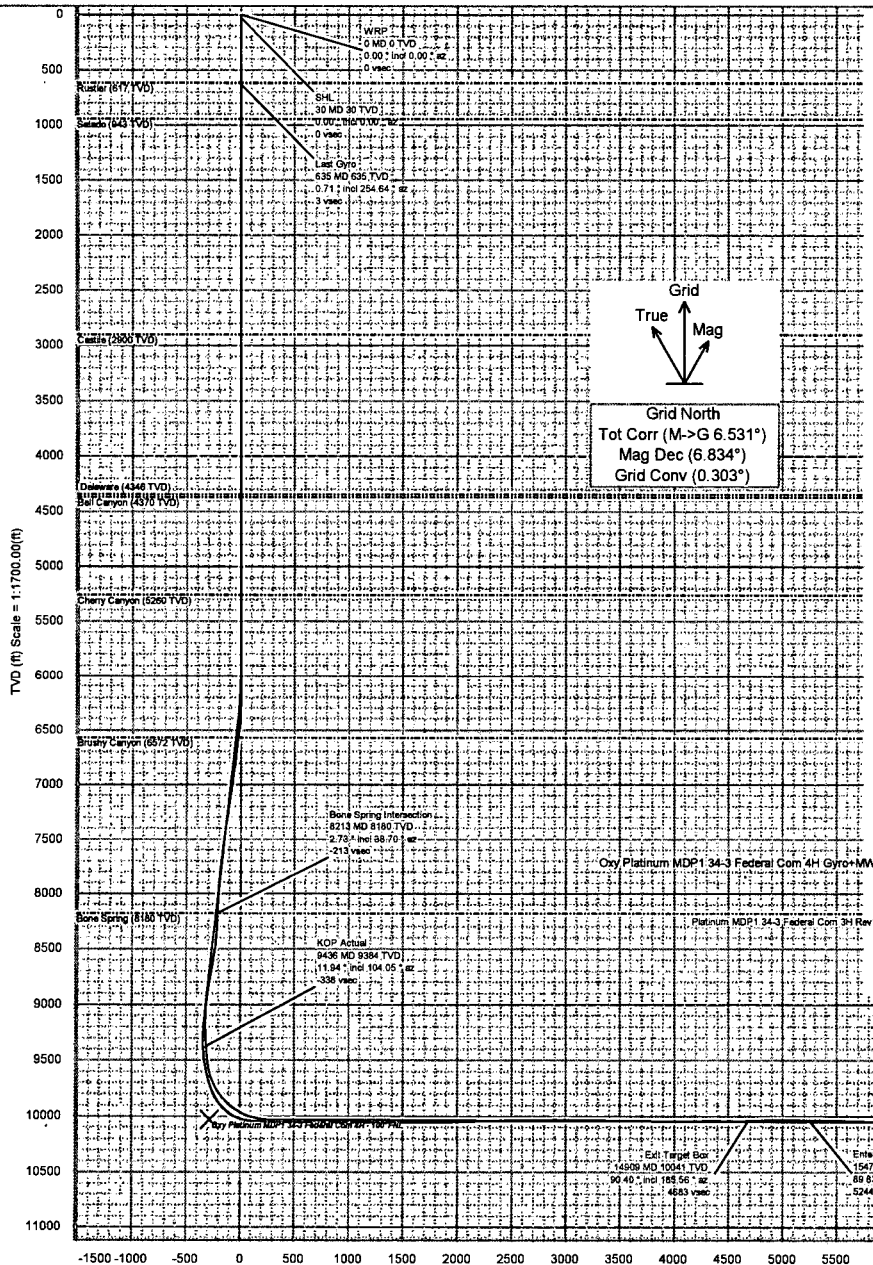
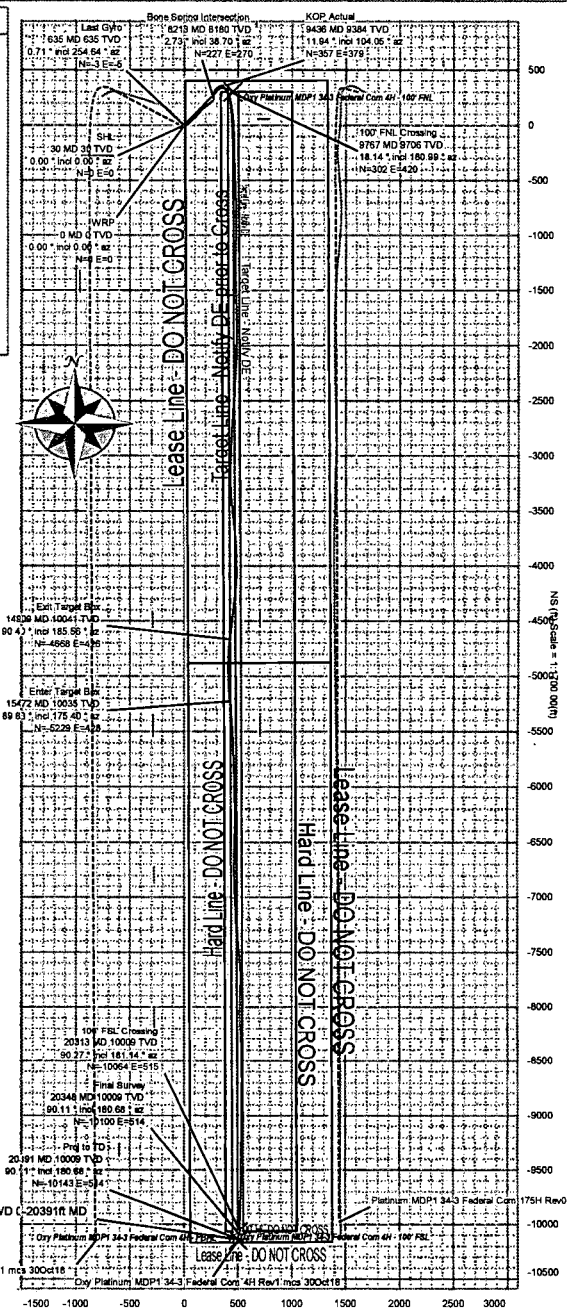
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Platinum MDP1 34-3 Federal Com 4H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 4H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	55.334°	Date:	14-Dec-2018	Lat:	N 32 16 1.61	Northing:	461363.09RUS	Grid Conv:	0.303°
MagDec:	6.834°	FS:	49023.9nT	Gravity FS:	998.447mgn (9.80665 Based)	Lon:	W 103 46 56.65	Easting:	716783.92RUS	Scale Fact:	0.99994434
								Slot: MDP1 34-3			
								TVD Ref: RKB - 30' (3457.6 ft above MSL)			
								Plan: Oxy Platinum MDP1 34-3 Federal Com 4H Gyro-MWD 9-20391R 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
Last Gyro	635.00	0.71	254.64	634.96	2.81	-3.08	-5.42	0.06
Bone Spring Intersection	8213.21	2.73	38.70	8180.00	-213.29	226.89	269.68	2.31
KOP Actual	9436.00	11.94	104.05	9384.30	-338.22	357.36	378.59	4.72
100' FNL Crossing	9767.00	18.14	180.99	9706.34	-281.27	302.37	419.64	6.86
Exit Target Box	14909.00	90.40	185.56	10041.18	4683.01	-4667.68	425.74	4.33
Enter Target Box	15471.50	89.83	175.40	10034.65	5243.57	-5228.81	428.13	1.03
100' FSL Crossing	20312.80	90.27	181.14	10009.04	10077.50	-10064.35	515.03	1.37
Final Survey	20348.00	90.11	180.68	10008.92	10112.62	-10099.54	514.47	1.37
Proj to TD	20391.00	90.11	180.68	10008.84	10155.54	-10142.54	513.96	0.00





Oxy Platinum MDP1 34-3 Federal Com 4H Gyro+MWD 0-20391ft MD Survey **Geodetic Report** (Def Survey)

Report Date: December 31, 2018 - 10:14 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 4H / Oxy Platinum MDP1 34-3 Federal Com 4H
Well: Platinum MDP1 34-3 Federal Com 4H
Borehole: Original Borehole
UWI / API#: H&P 556 / 30-015-45229
Survey Name: Oxy Platinum MDP1 34-3 Federal Com 4H Gyro+MWD 0-20391ft MD
Survey Date: November 21, 2018
Tort / AHD / DDI / ERD Ratio: 299.061 * / 11110.819 ft / 6.828 / 1.104
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 1.51132", W 103° 45' 56.54795"
Location Grid N/E Y/X: N 461363.090 ftUS, E 716783.920 ftUS
CRS Grid Convergence Angle: 0.3030 *
Grid Scale Factor: 0.99994434
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 177.169 * (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: 6.834 *
Total Gravity Field Strength: 998.4470mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48023.900 nT
Magnetic Dip Angle: 59.994 *
Declination Date: December 14, 2018
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.3030 *
Total Corr Mag North->Grid: 6.5310 *
North: 6.5310 *
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 ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461363.09	716783.92	N 32 16 1.51	W 103 45 56.55
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	461363.09	716783.92	N 32 16 1.51	W 103 45 56.55
	100.00	0.51	240.68	100.00	0.14	-0.15	-0.27	0.73	461362.94	716783.65	N 32 16 1.51	W 103 45 56.55
	186.00	0.50	215.83	186.00	0.60	-0.64	-0.83	0.25	461362.45	716783.10	N 32 16 1.50	W 103 45 56.56
	273.00	0.60	241.57	272.99	1.10	-1.17	-1.45	0.30	461361.92	716782.47	N 32 16 1.50	W 103 45 56.56
	367.00	0.66	238.78	366.99	1.57	-1.68	-2.34	0.07	461361.41	716781.58	N 32 16 1.49	W 103 45 56.58
	452.00	0.76	240.69	451.98	2.11	-2.28	-3.36	0.11	461360.81	716780.56	N 32 16 1.49	W 103 45 56.59
	566.00	0.73	251.46	565.97	2.59	-2.82	-4.59	0.14	461360.27	716779.33	N 32 16 1.48	W 103 45 56.60
Last Gyro	635.00	0.71	254.64	634.96	2.81	-3.08	-5.42	0.06	461360.01	716778.50	N 32 16 1.48	W 103 45 56.61
	741.00	0.03	352.31	740.96	2.92	-3.22	-6.06	0.67	461359.87	716777.86	N 32 16 1.48	W 103 45 56.62
	832.00	0.10	35.16	831.96	2.83	-3.14	-6.01	0.09	461359.96	716777.91	N 32 16 1.48	W 103 45 56.62
	923.00	0.08	290.76	922.96	2.75	-3.05	-6.03	0.16	461360.04	716777.89	N 32 16 1.48	W 103 45 56.62
	1102.00	0.03	206.29	1101.96	2.74	-3.05	-6.17	0.05	461360.04	716777.76	N 32 16 1.48	W 103 45 56.62
	1194.00	0.05	65.48	1193.96	2.74	-3.05	-6.14	0.08	461360.04	716777.78	N 32 16 1.48	W 103 45 56.62
	1285.00	0.03	76.91	1284.96	2.72	-3.03	-6.08	0.02	461360.06	716777.84	N 32 16 1.48	W 103 45 56.62
	1471.00	0.07	354.01	1470.96	2.60	-2.90	-6.04	0.04	461360.19	716777.88	N 32 16 1.48	W 103 45 56.62
	1565.00	0.11	295.85	1564.96	2.50	-2.81	-6.13	0.10	461360.28	716777.79	N 32 16 1.48	W 103 45 56.62
	1659.00	0.08	175.76	1658.96	2.52	-2.83	-6.21	0.18	461360.26	716777.71	N 32 16 1.48	W 103 45 56.62
	1848.00	0.15	46.62	1847.96	2.50	-2.80	-6.02	0.11	461360.29	716777.90	N 32 16 1.48	W 103 45 56.62
	1942.00	0.10	67.34	1941.96	2.39	-2.68	-5.85	0.07	461360.41	716778.07	N 32 16 1.49	W 103 45 56.62
	2130.00	0.10	179.84	2129.96	2.50	-2.78	-5.70	0.09	461360.31	716778.22	N 32 16 1.48	W 103 45 56.61
	2319.00	0.08	353.27	2318.96	2.53	-2.81	-5.72	0.10	461360.28	716778.20	N 32 16 1.48	W 103 45 56.61
	2508.00	0.20	79.24	2507.96	2.35	-2.62	-5.41	0.11	461360.47	716778.51	N 32 16 1.49	W 103 45 56.61
	2697.00	0.10	22.93	2696.96	2.16	-2.41	-5.02	0.09	461360.68	716778.90	N 32 16 1.49	W 103 45 56.61
	2887.00	0.20	274.07	2886.96	1.97	-2.23	-5.29	0.13	461360.86	716778.63	N 32 16 1.49	W 103 45 56.61
	2981.00	0.07	242.15	2980.96	1.97	-2.25	-5.50	0.15	461360.84	716778.42	N 32 16 1.49	W 103 45 56.61
	3076.00	0.11	155.64	3075.96	2.08	-2.36	-5.51	0.13	461360.73	716778.41	N 32 16 1.49	W 103 45 56.61
	3171.00	0.05	178.69	3170.96	2.21	-2.48	-5.48	0.07	461360.61	716778.45	N 32 16 1.49	W 103 45 56.61
	3265.00	0.08	232.30	3264.96	2.29	-2.56	-5.53	0.07	461360.53	716778.39	N 32 16 1.49	W 103 45 56.61
	3455.00	0.03	117.22	3454.96	2.39	-2.67	-5.59	0.05	461360.42	716778.33	N 32 16 1.49	W 103 45 56.61
	3645.00	0.20	153.96	3644.96	2.72	-2.99	-5.40	0.09	461360.10	716778.52	N 32 16 1.48	W 103 45 56.61
	3834.00	0.20	159.89	3833.96	3.34	-3.59	-5.14	0.01	461359.50	716778.78	N 32 16 1.48	W 103 45 56.61
	4023.00	0.23	145.86	4022.96	3.97	-4.22	-4.81	0.03	461358.87	716779.11	N 32 16 1.47	W 103 45 56.60
	4213.00	0.09	257.00	4212.96	4.33	-4.57	-4.74	0.15	461358.52	716779.18	N 32 16 1.47	W 103 45 56.60
	4346.00	0.07	301.86	4345.96	4.30	-4.55	-4.91	0.05	461358.54	716779.01	N 32 16 1.47	W 103 45 56.61
	4514.00	0.09	92.73	4513.96	4.25	-4.50	-4.87	0.09	461358.59	716779.05	N 32 16 1.47	W 103 45 56.60
	4703.00	0.08	335.93	4702.96	4.14	-4.39	-4.78	0.08	461358.70	716779.14	N 32 16 1.47	W 103 45 56.60
	4891.00	0.09	336.80	4890.96	3.88	-4.13	-4.89	0.01	461358.96	716779.03	N 32 16 1.47	W 103 45 56.61
	4986.00	0.08	110.61	4985.95	3.84	-4.09	-4.85	0.16	461359.01	716779.07	N 32 16 1.47	W 103 45 56.60
	5174.00	0.08	248.31	5173.95	3.94	-4.18	-4.85	0.08	461358.91	716779.07	N 32 16 1.47	W 103 45 56.60
	5364.00	0.08	9.63	5363.95	3.85	-4.10	-4.95	0.07	461358.99	716778.97	N 32 16 1.47	W 103 45 56.61
	5553.00	0.08	287.71	5552.95	3.67	-3.93	-5.06	0.06	461359.16	716778.86	N 32 16 1.47	W 103 45 56.61
	5742.00	0.08	203.59	5741.95	3.75	-4.01	-5.24	0.06	461359.08	716778.68	N 32 16 1.47	W 103 45 56.61
	5932.00	0.64	82.38	5931.95	3.78	-3.99	-4.24	0.36	461359.10	716779.68	N 32 16 1.47	W 103 45 56.60
	6027.00	1.52	88.27	6026.93	3.76	-3.88	-2.45	0.93	461359.21	716781.47	N 32 16 1.47	W 103 45 56.58
	6121.00	2.55	80.45	6120.87	3.53	-3.50	0.86	1.13	461359.59	716784.78	N 32 16 1.48	W 103 45 56.54
	6215.00	4.86	72.70	6214.68	2.34	-2.01	6.56	2.30	461361.08	716790.48	N 32 16 1.49	W 103 45 56.47
	6310.00	7.19	64.99	6309.17	-0.87	1.65	15.84	2.79	461364.74	716799.56	N 32 16 1.53	W 103 45 56.37
	6404.00	9.40	57.39	6402.18	-6.91	8.27	27.44	2.62	461371.36	716811.35	N 32 16 1.59	W 103 45 56.23
	6498.00	10.53	50.79	6494.77	-15.82	17.84	40.56	1.71	461380.93	716824.48	N 32 16 1.69	W 103 45 56.07
	6593.00	10.94	50.59	6588.10	-26.34	29.05	54.25	0.43	461392.14	716838.17	N 32 16 1.80	W 103 45 55.91
	6781.00	11.16	47.85	6772.62	-48.50	52.59	81.52	0.30	461415.67	716865.44	N 32 16 2.03	W 103 45 55.60
	6970.00	11.16	43.58	6958.05	-72.70	78.11	107.69	0.44	461441.20	716891.51	N 32 16 2.28	W 103 45 55.29
	7064.00	11.10	41.21	7050.28	-85.47	91.51	119.92	0.49	461454.59	716903.84	N 32 16 2.41	W 103 45 55.15
	7253.00	12.29	41.83	7235.35	-112.86	120.18	145.33	0.53	461483.27	716929.24	N 32 16 2.69	W 103 45 54.85
	7442.00	13.08	48.89	7419.75	-140.42	149.24	174.86	0.92	461512.32	716958.77	N 32 16 2.98	W 103 45 54.50
	7536.00	12.89	50.30	7511.35	-153.30	162.93	190.94	0.39	461526.01	716974.85	N 32 16 3.11	W 103 45 54.31
	7727.00	11.17	52.26	7696.15	-176.67	187.86	221.96	0.93	461550.94	717005.87	N 32 16 3.36	W 103 45 53.95
	7822.00	9.72	51.83	7791.57	-186.57	198.45	235.54	1.53	461561.53	717019.45	N 32 16 3.46	W 103 45 53.79
	8010.00	6.88	50.74	7977.58	-202.44	215.39	256.74	1.51	461578.46	717040.65	N 32 16 3.63	W 103 45 53.54
	8105.00	5.13	49.61	8072.06	-208.41	221.74	264.39	1.85	461584.82	717048.29	N 32 16 3.69	W 103 45 53.46
Bone Spring Intersection	8213.21	2.73	38.70	8180.00	-213.29	226.89	269.68	2.31	461589.96	717053.59	N 32 16 3.74	W 103 45 53.39
	8293.00	1.25	3.80	8259.75	-215.58	229.24	270.93	2.31	461592.31	717054.83	N 32 16 3.77	W 103 45 53.38
	8387.00	3.56	358.46	8353.66	-219.51	233.18	270.92	2.47	461596.25	717054.82	N 32 16 3.80	W 103 45 53.38
	8481.00	6.32	6.66	8447.30	-227.53	241.24	271.44	3.02	461604.31	717055.34	N 32 16 3.88	W 103 45 53.37
	8575.00	9.19	8.00	8540.43	-240.01	253.81	273.08	3.06	461616.89	717056.99	N 32 16 4.01	W 103 45 53.35
	8669.00	9.94	11.26	8633.12	-255.25	269.20	275.71	0.98	461632.28	717059.62	N 32 16 4.16	W 103 45 53.32
	8763.00	10.43	10.30	8725.64	-271.41	285.53	278.82	0.55	461648.60	717062.72	N 32 16 4.32	W 103 45 53.28
	8857.00	10.20	13.69	8818.12	-287.68	301.99	282.31	0.69	461665.06	717066.21	N 32 16 4.48	W 103 45 53.24
	8951.00	10.08	31.40	8910.68	-302.46	317.10	288.57	3.31	461680.17	717072.47	N 32 16 4.63	W 103 45 53.17
	9045.00	10.63	47.14	9003.17	-314.84	330.02	299.21	3.06	461693.09	717083.11	N 32 16 4.76	W 103 45 53.04
	9139.00	13.43	57.16	9095.10	-325.88	341.84	314.74	3.71	461704.91	717098.64	N 32 16 4.88	W 103 45 52.86
	9233.00	13.62	66.36	9186.51	-335.27	352.20	334.05	2.30	461715.27	717117.95	N 32 16 4.98	W 103 45 52.64
	9327.00	13.50	81.61	9277.92	-340.27	358.24	355.05	3.80	461721.31	717138.95	N 32 16 5.04	W 103 45 52.39
	9436.00	11.94	104.05	9384.30	-338.22	357.36	378.59	4.72	461720.43	717162.49	N 32 16 5.03	W 103 45 52.12
KOP Actual												

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 ° ' ")
100' FNL Crossing	9601.00	12.51	132.89	9545.71	-320.46	341.04	408.27	3.68	461704.11	717192.17	N 32 16 4.86	W 103 45 51.77
	9695.00	14.58	168.73	9637.25	-301.43	322.47	418.06	9.04	461685.54	717201.96	N 32 16 4.68	W 103 45 51.66
	9767.00	18.14	180.99	9706.34	-281.27	302.37	419.64	6.86	461665.44	717203.54	N 32 16 4.48	W 103 45 51.64
	9789.00	19.34	183.82	9727.18	-274.24	295.31	419.34	6.86	461658.38	717203.23	N 32 16 4.41	W 103 45 51.65
	9884.00	26.90	171.08	9814.54	-237.17	258.31	421.63	9.50	461621.38	717205.52	N 32 16 4.05	W 103 45 51.62
	9978.00	39.76	168.54	9892.92	-186.09	207.62	430.94	13.76	461603.76	717214.83	N 32 16 3.54	W 103 45 51.52
	10073.00	52.48	171.03	9958.64	-118.31	140.35	442.90	13.52	461503.44	717226.79	N 32 16 2.88	W 103 45 51.38
	10167.00	65.48	174.93	10006.99	-38.15	60.57	452.53	14.28	461423.66	717236.43	N 32 16 2.09	W 103 45 51.27
	10261.00	80.00	177.96	10034.81	51.36	-28.78	457.99	15.75	461334.32	717241.88	N 32 16 1.20	W 103 45 51.22
	10356.00	89.41	178.99	10043.57	145.82	-123.23	460.50	9.96	461239.87	717244.39	N 32 16 0.27	W 103 45 51.19
	10386.00	88.56	178.43	10044.10	175.81	-153.22	461.17	3.39	461209.88	717245.07	N 32 15 59.97	W 103 45 51.19
	10577.00	89.00	177.11	10048.16	366.75	-344.02	468.60	0.73	461019.09	717252.50	N 32 15 58.08	W 103 45 51.11
	10672.00	89.17	178.02	10049.68	461.73	-438.92	472.64	0.97	460924.19	717256.53	N 32 15 57.14	W 103 45 51.07
	10765.00	89.62	177.92	10050.66	554.72	-531.86	475.93	0.50	460831.26	717259.82	N 32 15 56.22	W 103 45 51.04
	10859.00	89.59	177.87	10051.31	648.71	-625.80	479.38	0.06	460737.33	717263.28	N 32 15 55.29	W 103 45 51.00
	10952.00	89.83	178.67	10051.78	741.69	-718.75	482.19	0.90	460644.38	717266.08	N 32 15 54.37	W 103 45 50.98
	11045.00	90.07	179.75	10051.86	834.63	-811.74	483.47	1.19	460551.40	717267.37	N 32 15 53.45	W 103 45 50.97
	11139.00	89.96	180.04	10051.84	928.52	-905.74	483.65	0.33	460457.40	717267.54	N 32 15 52.52	W 103 45 50.97
	11232.00	90.93	181.84	10051.12	1021.31	-998.72	482.12	2.20	460364.43	717266.01	N 32 15 51.60	W 103 45 50.99
	11326.00	89.31	181.37	10050.92	1115.03	-1092.68	479.49	1.79	460270.47	717263.38	N 32 15 50.67	W 103 45 51.03
	11419.00	89.31	180.41	10052.04	1207.82	-1185.66	478.04	1.03	460177.50	717261.94	N 32 15 49.75	W 103 45 51.05
	11513.00	89.90	179.39	10052.69	1301.71	-1279.66	478.21	1.25	460083.51	717262.10	N 32 15 48.82	W 103 45 51.06
	11606.00	89.86	178.55	10052.88	1394.67	-1372.64	479.88	0.90	459990.53	717263.77	N 32 15 47.90	W 103 45 51.04
	11699.00	90.69	178.65	10052.44	1487.64	-1465.61	482.15	0.90	459897.56	717266.04	N 32 15 46.98	W 103 45 51.02
	11793.00	89.86	178.71	10051.99	1581.60	-1559.58	484.32	0.89	459803.60	717268.21	N 32 15 46.05	W 103 45 51.00
	11886.00	89.35	178.13	10052.63	1674.58	-1652.55	486.88	0.83	459710.64	717270.77	N 32 15 45.13	W 103 45 50.98
	11980.00	90.17	179.02	10053.02	1768.54	-1746.51	489.22	1.29	459616.68	717273.11	N 32 15 44.20	W 103 45 50.96
	12073.00	91.20	179.89	10051.91	1861.46	-1839.50	490.10	1.45	459523.70	717274.00	N 32 15 43.28	W 103 45 50.95
	12166.00	91.31	180.28	10049.87	1954.32	-1932.48	489.97	0.44	459430.72	717273.86	N 32 15 42.36	W 103 45 50.96
	12260.00	91.58	180.79	10047.50	2048.13	-2026.44	489.09	0.61	459336.76	717272.98	N 32 15 41.43	W 103 45 50.98
	12353.00	91.51	181.88	10044.99	2140.85	-2119.38	486.92	1.17	459243.83	717270.81	N 32 15 40.51	W 103 45 51.01
	12446.00	91.68	183.30	10042.40	2233.39	-2212.25	482.72	1.54	459150.97	717266.61	N 32 15 39.60	W 103 45 51.06
	12541.00	90.41	184.19	10040.67	2327.75	-2307.03	478.52	1.63	459056.19	717260.41	N 32 15 38.66	W 103 45 51.14
	12636.00	91.58	183.75	10039.02	2422.06	-2401.78	469.94	1.32	458961.44	717253.83	N 32 15 37.72	W 103 45 51.22
	12731.00	90.93	183.56	10036.94	2516.43	-2496.57	463.89	0.71	458866.67	717247.78	N 32 15 36.78	W 103 45 51.30
	12825.00	90.48	183.81	10035.79	2609.82	-2590.37	457.85	0.55	458772.87	717241.74	N 32 15 35.86	W 103 45 51.38
	12919.00	90.96	184.29	10034.60	2703.13	-2684.12	451.21	0.72	458679.12	717235.10	N 32 15 34.93	W 103 45 51.46
	13014.00	90.55	183.82	10033.35	2797.44	-2778.88	444.49	0.66	458584.37	717228.38	N 32 15 33.99	W 103 45 51.54
	13109.00	90.14	183.00	10032.78	2891.87	-2873.71	438.84	0.97	458489.55	717222.73	N 32 15 33.05	W 103 45 51.61
	13204.00	90.24	182.41	10032.47	2986.60	-2968.60	434.36	0.63	458394.66	717216.25	N 32 15 32.11	W 103 45 51.67
	13298.00	88.68	181.91	10033.37	3080.07	-3062.52	430.81	1.76	458300.74	717214.71	N 32 15 31.19	W 103 45 51.72
	13393.00	88.90	179.73	10035.39	3174.85	-3157.49	428.45	2.31	458205.78	717213.35	N 32 15 30.25	W 103 45 51.74
	13488.00	89.41	178.31	10036.79	3269.46	-3252.46	431.08	1.59	458110.82	717211.97	N 32 15 29.31	W 103 45 51.73
	13582.00	88.93	175.78	10038.15	3363.76	-3346.32	435.92	2.74	458016.96	717210.82	N 32 15 28.38	W 103 45 51.68
	13676.00	88.83	173.64	10039.99	3457.65	-3439.89	444.59	2.28	457923.39	717209.48	N 32 15 27.45	W 103 45 51.58
	13771.00	89.86	173.21	10041.08	3552.44	-3534.26	455.47	1.17	457829.03	717209.36	N 32 15 26.52	W 103 45 51.46
	13865.00	89.35	174.02	10041.72	3646.26	-3627.68	465.92	1.02	457735.62	717209.81	N 32 15 25.59	W 103 45 51.35
	13960.00	88.69	175.53	10043.35	3741.16	-3722.26	474.57	1.73	457641.04	717208.46	N 32 15 24.65	W 103 45 51.25
	14054.00	89.38	178.29	10046.52	3836.11	-3809.94	484.70	1.51	457453.37	717206.59	N 32 15 22.80	W 103 45 51.14
	14148.00	91.86	182.00	10044.47	3931.10	-4098.88	484.22	2.36	457264.44	717206.12	N 32 15 20.93	W 103 45 51.16
Exit Target Box	14242.00	90.21	186.47	10041.06	4026.28	-4287.28	470.27	2.52	457076.05	717254.16	N 32 15 19.06	W 103 45 51.34
	14337.00	89.52	186.56	10041.28	4121.80	-4381.67	459.49	0.73	456981.87	717243.38	N 32 15 18.13	W 103 45 51.47
	14432.00	90.27	187.24	10041.63	4217.33	-4569.30	436.79	0.54	456794.06	717220.68	N 32 15 16.28	W 103 45 51.74
	14527.00	90.24	185.64	10041.20	4279.05	-4663.69	426.13	1.68	456699.66	717210.03	N 32 15 15.34	W 103 45 51.87
	14621.00	90.40	185.56	10041.18	4374.61	-4767.68	425.74	4.33	456605.68	717209.64	N 32 15 15.30	W 103 45 51.88
	14716.00	93.89	183.84	10037.82	4472.15	-4757.29	418.37	4.33	456606.07	717202.26	N 32 15 14.42	W 103 45 51.97
	14810.00	93.20	181.75	10031.94	4569.51	-4851.99	413.75	2.31	456511.38	717197.64	N 32 15 13.48	W 103 45 52.03
	14904.00	88.49	177.48	10029.15	4666.98	-5040.87	415.02	3.36	456322.51	717198.82	N 32 15 11.61	W 103 45 52.03
	15000.00	87.49	175.58	10032.45	4764.45	-5134.63	420.70	2.28	456228.75	717204.60	N 32 15 10.68	W 103 45 51.97
	15096.00	89.83	175.40	10034.65	4862.00	-5228.31	428.09	2.50	456135.08	717211.99	N 32 15 9.76	W 103 45 51.89
Enter Target Box	15191.00	89.83	175.40	10034.65	4957.57	-5328.81	428.13	1.03	456134.58	717212.03	N 32 15 9.75	W 103 45 51.88
	15286.00	89.04	175.97	10035.59	5053.04	-5323.04	435.24	1.03	456040.36	717219.14	N 32 15 8.82	W 103 45 51.81
	15381.00	88.59	176.45	10039.49	5148.51	-5311.58	442.73	0.35	455951.83	717231.62	N 32 15 6.95	W 103 45 51.67
	15476.00	87.83	177.60	10045.40	5244.00	-5170.23	457.54	0.73	455863.19	717241.43	N 32 15 5.08	W 103 45 51.57
	15571.00	87.18	177.82	10049.49								

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 ° ' ")
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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	30.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 4H Gyro+MWD 0-20391ft 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 4H Gyro+MWD 0-20391ft MD
	1	30.000	635.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 4H Gyro+MWD 0-20391ft MD
	1	635.000	20391.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 4H

...Original Borehole\Oxy Platinum MDP1 34-3 Federal Com 4H Gyro+MWD 0-20391ft MD