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

November 14, 2019

OXY USA INC
P.O. BOX 4294
HOUSTON, TX 77210-4294

Re:

S30, T22S, R33E, LEA, NM
N 32.36964 W -103.60680

CLIENT: OXY USA INC
WELL: AVOGATO 30 31 STATE COM 74H
FIELD: Red Tank; Bone Spring, East

RIG: H&P 636
COUNTY: LEA
API NO: 30-025-45964
JOB NO: 19MLH0363

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
Devon Kurtz FS	AVOGATO 30 31 STATE COM 074H Original Hole	1113.00 Ft 21609.00 Ft	to	October 4, 2019 November 6, 2019	to	Extreme, TelePacer Third Party Corrected

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:
S30, T22S, R33E, LEA, NM
N 32.36964 W -103.60680

I, Devon Kurtz certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 04, 2019 through November 06, 2019, conduct or supervise the taking of the TelePacer & Extreme surveys from a depth of 1113.00 feet to a depth of 21609.00 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 AVOGATO 30 31 STATE COM 74H Well (Original Hole) API No. 30-025-45964 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
Devon Kurtz
FS

Subscribed and Sworn to before me this 14 day of November (month) 2019 (yr)

My Commission expires:
6/14/2023

Jean-Paul Langlois (signature)
Notary Public

Comanche, Oklahoma
(County State)

Jean-Paul Langlois
Notary Public in and for
STATE OF OKLAHOMA
Commission #19005986
Expires: June 14, 2023

Schlumberger

OXY

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Avogato 30-31 State Com 74H	NM Lea County (NAD 83)	Oxy Avogato 30-31 State Com 74H

Gravity & Magnetic Parameters

Model: IFR1 Dip: 60.091° Date: 25-Oct-2019

MagDec: 6.588° FS: 48039.2nT Gravity FS: 998.452mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

Lat: N 32 22 10.71 Northing: 496968.6ftUS Grid Conv: 0.389°

Lon: W 103 36 24.47 Easting: 765849.7ftUS Scale Fact: 0.99996872

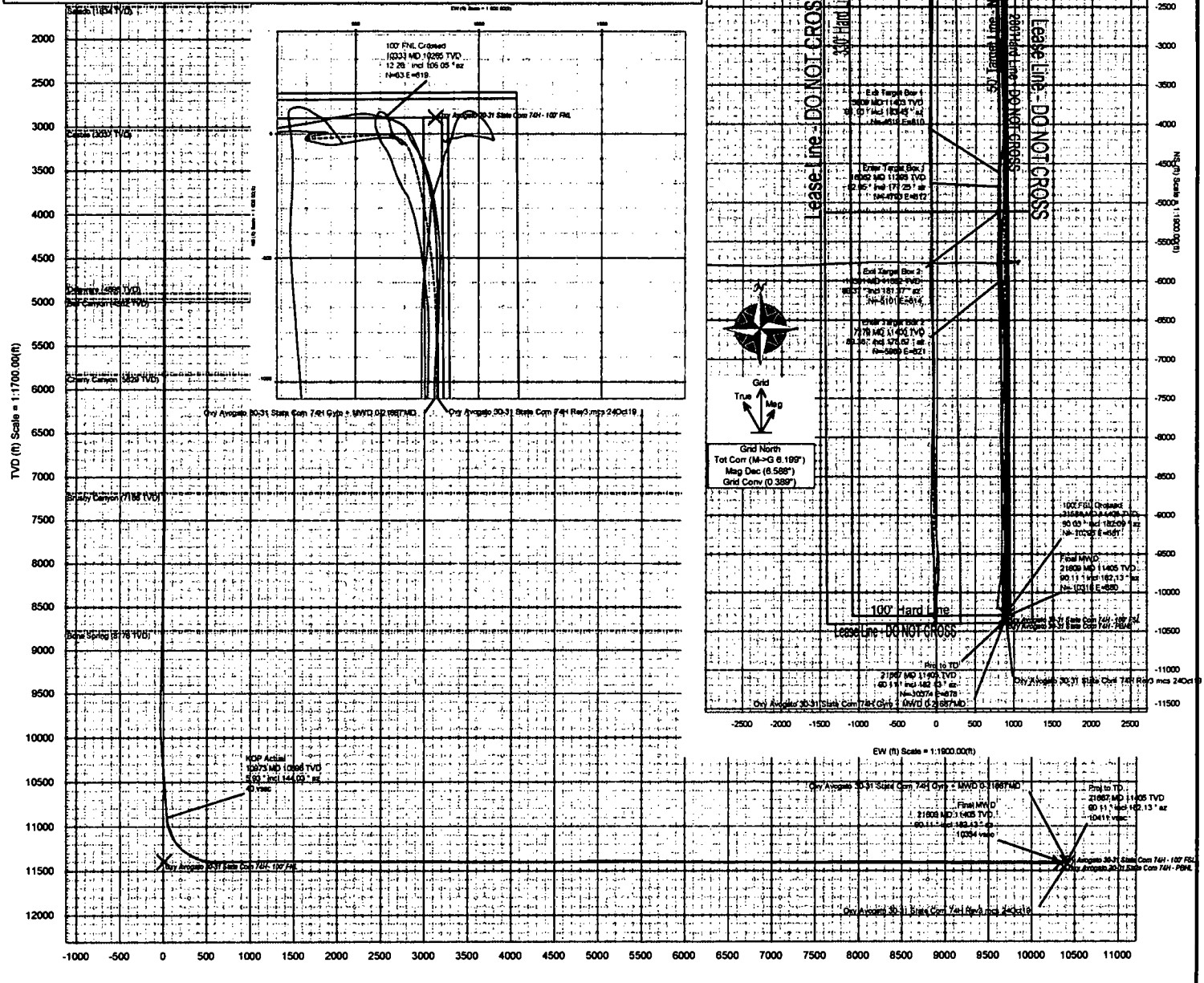
Miscellaneous

Slot: Oxy Avogato 30-31 State Com 74H TVD Ref: RKB=26.5'(3696.9ft above MSL)

Plan: Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667MD

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	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	1035.50	0.52	235.65	1035.48	6.93	-7.28	-3.76	1.03
100' FNL Crossed	10333.00	12.26	106.05	10264.56	-9.49	63.48	618.59	0.49
KOP Actual	10973.00	5.93	144.03	10896.35	39.91	21.45	705.56	1.67
Exit Target Box 1	15908.50	91.10	183.45	11402.60	4672.36	-4619.42	810.46	3.55
Enter Target Box 1	16082.00	92.95	177.25	11395.17	4844.99	-4792.59	811.78	2.54
Exit Target Box 2	16390.50	89.37	181.37	11391.60	5152.37	-5100.94	814.15	0.76
Enter Target Box 2	17278.50	89.38	178.67	11399.57	6037.38	-5988.71	820.98	0.81
100' FSL Crossed	21588.00	90.03	182.09	11404.93	10332.82	-10295.22	880.82	0.44
Final MWD	21609.00	90.11	182.13	11404.91	10353.66	-10316.21	880.04	0.44
Proj to TD	21667.00	90.11	182.13	11404.79	10411.21	-10374.17	877.89	0.00



Schlumberger

Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD Survey
Geodetic Report
(Def Survey)

Report Date:	November 06, 2019 - 11:29 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	175.017 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Avogato 30-31 State Com 74H / Oxy Avogato 30-31 State Com 74H	**TVD Reference Datum:**	RKB=26.5'
Well:	Oxy Avogato 30-31 State Com 74H	**TVD Reference Elevation:**	3695.900 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3669.400 ft above MSL
UWI / API#:	Unknown / 30-025-45964	**Magnetic Declination:**	6.588 °
Survey Name:	Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD	**Total Gravity Field Strength:**	998.4516mgn (9.80665 Based)
Survey Date:	September 27, 2019	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	303.755 ° / 11181.802 ft / 6.810 / 0.980	**Total Magnetic Field Strength:**	48039.200 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	60.081 °
Location Lat / Long:	N 32° 22' 10.70868", W 103° 36' 24.46628"	**Declination Date:**	October 25, 2019
Location Grid N/E Y/X:	N 498968.600 ftUS, E 765649.700 ftUS	**Magnetic Declination Model:**	IFR1
CRS Grid Convergence Angle:	0.3890 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99996672	**Grid Convergence Used:**	0.3890 °
Version / Patch:	2.10.782.0	**Total Corr Mag North->Grid North:**	6.1990 °
		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	498968.60	765649.70	N 32 22 10.71	W 103 36 24.47
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	498968.60	765649.70	N 32 22 10.71	W 103 36 24.47
	85.20	0.34	203.84	85.20	0.15	-0.16	-0.07	0.58	498968.44	765649.63	N 32 22 10.71	W 103 36 24.47
	121.80	0.37	199.48	121.80	0.36	-0.37	-0.15	0.11	498968.23	765649.55	N 32 22 10.71	W 103 36 24.47
	154.90	0.35	198.02	154.90	0.55	-0.57	-0.22	0.07	498968.03	765649.48	N 32 22 10.70	W 103 36 24.47
	182.10	0.35	201.21	182.10	0.70	-0.72	-0.28	0.07	498967.88	765649.42	N 32 22 10.70	W 103 36 24.47
	208.60	0.37	202.87	208.60	0.84	-0.88	-0.34	0.09	498967.72	765649.36	N 32 22 10.70	W 103 36 24.47
	235.70	0.39	206.48	235.70	1.00	-1.04	-0.41	0.12	498967.56	765649.29	N 32 22 10.70	W 103 36 24.47
	266.20	0.37	205.55	266.20	1.17	-1.22	-0.50	0.07	498967.38	765649.20	N 32 22 10.70	W 103 36 24.47
	296.60	0.38	203.25	296.60	1.35	-1.40	-0.58	0.08	498967.20	765649.12	N 32 22 10.69	W 103 36 24.47
	328.10	0.37	204.74	328.09	1.53	-1.59	-0.67	0.04	498967.01	765649.03	N 32 22 10.69	W 103 36 24.47
	359.70	0.36	204.63	359.69	1.70	-1.78	-0.75	0.03	498966.83	765648.95	N 32 22 10.69	W 103 36 24.48
	391.20	0.40	200.67	391.19	1.89	-1.97	-0.83	0.15	498966.63	765648.87	N 32 22 10.69	W 103 36 24.48
	422.70	0.40	207.35	422.69	2.08	-2.17	-0.92	0.15	498966.43	765648.78	N 32 22 10.69	W 103 36 24.48
	454.20	0.41	209.95	454.19	2.27	-2.36	-1.03	0.07	498966.24	765648.67	N 32 22 10.69	W 103 36 24.48
	485.80	0.42	214.15	485.79	2.45	-2.56	-1.15	0.10	498966.04	765648.55	N 32 22 10.68	W 103 36 24.48
	517.30	0.44	208.02	517.29	2.64	-2.76	-1.27	0.16	498965.84	765648.43	N 32 22 10.68	W 103 36 24.48
	548.80	0.44	208.68	548.79	2.84	-2.97	-1.39	0.02	498965.63	765648.31	N 32 22 10.68	W 103 36 24.48
	580.30	0.65	208.41	580.29	3.09	-3.24	-1.53	0.67	498965.36	765648.17	N 32 22 10.68	W 103 36 24.48
	611.80	0.67	209.37	611.79	3.39	-3.55	-1.71	0.07	498965.05	765647.99	N 32 22 10.67	W 103 36 24.49
	643.30	0.66	208.61	643.28	3.70	-3.87	-1.88	0.04	498964.73	765647.82	N 32 22 10.67	W 103 36 24.49
	674.90	0.66	208.58	674.88	4.00	-4.19	-2.06	0.00	498964.41	765647.64	N 32 22 10.67	W 103 36 24.49
	706.40	0.66	209.22	706.38	4.30	-4.51	-2.23	0.02	498964.09	765647.47	N 32 22 10.66	W 103 36 24.49
	737.90	0.64	208.33	737.88	4.60	-4.82	-2.40	0.07	498963.78	765647.30	N 32 22 10.66	W 103 36 24.49
	769.40	0.61	206.65	769.38	4.89	-5.13	-2.56	0.11	498963.47	765647.14	N 32 22 10.66	W 103 36 24.50
	800.90	0.60	205.32	800.87	5.17	-5.43	-2.71	0.05	498963.17	765646.99	N 32 22 10.66	W 103 36 24.50
	832.40	0.58	204.27	832.37	5.45	-5.72	-2.84	0.07	498962.88	765646.86	N 32 22 10.65	W 103 36 24.50
	863.90	0.58	192.33	863.87	5.74	-6.02	-2.94	0.38	498962.58	765646.76	N 32 22 10.65	W 103 36 24.50
	895.50	0.58	210.71	895.47	6.03	-6.32	-3.06	0.59	498962.28	765646.64	N 32 22 10.65	W 103 36 24.50
	927.00	0.53	213.25	926.97	6.27	-6.58	-3.22	0.18	498962.02	765646.48	N 32 22 10.64	W 103 36 24.50
	958.60	0.49	212.73	958.57	6.49	-6.81	-3.37	0.13	498961.79	765646.33	N 32 22 10.64	W 103 36 24.51
	990.00	0.44	215.84	989.97	6.69	-7.02	-3.52	0.18	498961.58	765646.18	N 32 22 10.64	W 103 36 24.51
	1021.50	0.43	222.05	1021.46	6.86	-7.21	-3.67	0.15	498961.39	765646.03	N 32 22 10.64	W 103 36 24.51
Last Gyro	1035.50	0.52	235.65	1035.46	6.93	-7.28	-3.76	1.03	498961.32	765645.94	N 32 22 10.64	W 103 36 24.51
	1113.00	0.36	254.06	1112.96	7.15	-7.55	-4.28	0.27	498961.05	765645.42	N 32 22 10.63	W 103 36 24.52
	1204.00	0.04	48.27	1203.96	7.18	-7.61	-4.53	0.44	498960.99	765645.17	N 32 22 10.63	W 103 36 24.52
	1295.00	0.17	273.55	1294.96	7.14	-7.58	-4.64	0.22	498961.02	765645.06	N 32 22 10.63	W 103 36 24.52
	1386.00	0.15	294.16	1385.96	7.07	-7.52	-4.89	0.07	498961.08	765644.81	N 32 22 10.63	W 103 36 24.52
	1480.00	0.21	209.93	1479.96	7.15	-7.62	-5.08	0.26	498960.98	765644.62	N 32 22 10.63	W 103 36 24.53
	1670.00	0.17	150.40	1669.96	7.69	-8.16	-5.12	0.10	498960.44	765644.58	N 32 22 10.63	W 103 36 24.53
	1764.00	0.17	3.02	1763.96	7.68	-8.15	-5.04	0.35	498960.45	765644.66	N 32 22 10.63	W 103 36 24.53
	1859.00	0.12	311.22	1858.96	7.47	-7.94	-5.11	0.14	498960.66	765644.59	N 32 22 10.63	W 103 36 24.53
	1954.00	0.17	211.60	1953.96	7.51	-8.00	-5.26	0.24	498960.61	765644.44	N 32 22 10.63	W 103 36 24.53
	2048.00	0.12	30.50	2047.96	7.54	-8.03	-5.28	0.31	498960.57	765644.42	N 32 22 10.63	W 103 36 24.53
	2143.00	0.10	91.97	2142.96	7.47	-7.95	-5.15	0.12	498960.65	765644.55	N 32 22 10.63	W 103 36 24.53
	2238.00	0.12	201.03	2237.96	7.57	-8.04	-5.10	0.19	498960.56	765644.60	N 32 22 10.63	W 103 36 24.53
	2333.00	0.12	82.06	2332.96	7.65	-8.12	-5.04	0.22	498960.48	765644.66	N 32 22 10.63	W 103 36 24.53
	2427.00	0.12	164.98	2426.96	7.74	-8.20	-4.91	0.17	498960.40	765644.79	N 32 22 10.63	W 103 36 24.52
	2522.00	0.12	47.39	2521.96	7.78	-8.23	-4.82	0.22	498960.37	765644.88	N 32 22 10.63	W 103 36 24.52
	2617.00	0.12	308.42	2616.96	7.65	-8.10	-4.82	0.19	498960.50	765644.88	N 32 22 10.63	W 103 36 24.52
	2712.00	0.17	120.35	2711.96	7.67	-8.11	-4.78	0.30	498960.49	765644.92	N 32 22 10.63	W 103 36 24.52
	2806.00	0.12	20.28	2805.96	7.68	-8.09	-4.62	0.24	498960.51	765645.08	N 32 22 10.63	W 103 36 24.52
	2995.00	0.12	170.08	2994.96	7.68	-8.10	-4.52	0.12	498960.50	765645.18	N 32 22 10.63	W 103 36 24.52
	3185.00	0.10	350.83	3184.96	7.71	-8.13	-4.51	0.12	498960.47	765645.19	N 32 22 10.63	W 103 36 24.52
	3374.00	0.09	250.37	3373.96	7.58	-8.02	-4.68	0.08	498960.58	765645.02	N 32 22 10.63	W 103 36 24.52
	3469.00	0.04	69.89	3468.96	7.59	-8.03	-4.72	0.14	498960.57	765644.98	N 32 22 10.63	W 103 36 24.52
	3564.00	0.10	200.90	3563.96	7.66	-8.10	-4.72	0.14	498960.50	765644.98	N 32 22 10.63	W 103 36 24.52
	3694.00	0.16	179.81	3693.96	7.94	-8.39	-4.76	0.06	498960.21	765644.94	N 32 22 10.63	W 103 36 24.52
	3753.00	0.16	153.86	3752.96	8.10	-8.54	-4.72	0.12	498960.06	765644.98	N 32 22 10.62	W 103 36 24.52
	3848.00	0.31	97.51	3847.96	8.28	-8.69	-4.41	0.27	498959.91	765645.29	N 32 22 10.62	W 103 36 24.52
	3942.00	0.32	36.98	3941.95	8.14	-8.52	-4.00	0.34	498960.08	765645.70	N 32 22 10.62	W 103 36 24.51
	4037.00	0.56	81.90	4036.95	7.92	-8.24	-3.38	0.42	498960.36	765646.32	N 32 22 10.63	W 103 36 24.51
	4132.00	0.77	89.97	4131.95	7.95	-8.17	-2.28	0.24	498960.43	765647.42	N 32 22 10.63	W 103 36 24.49
	4226.00	0.57	122.63	4225.94	8.29	-8.43	-1.25	0.45	498960.17	765648.45	N 32 22 10.63	W 103 36 24.48
	4321.00	0.37	123.56	4320.94	8.77	-8.85	-0.60	0.21	498959.75	765649.10	N 32 22 10.62	W 103 36 24.47
	4416.00	0.30	118.82	4415.93	9.09	-9.14	-0.13	0.08	498959.46	765649.57	N 32 22 10.62	W 103 36 24.47
	4605.00	0.17	242.82	4604.93	9.48	-9.51	0.06	0.22	498959.09	765649.76	N 32 22 10.61	W 103 36 24.47
	4700.00	0.04	189.56	4699.93	9.56	-9.60	-0.07	0.16	498959.00	765649.63	N 32 22 10.61	W 103 36 24.47
	4794.00	0.17	24.80	4793.93	9.47	-9.51	-0.02	0.22	498959.09	765649.68	N 32 22 10.61	W 103 36 24.47
	4889.00	0.10	256.96	4888.93	9.36	-9.40	-0.04	0.28	498959.20	765649.66	N 32 22 10.62	W 103 36 24.47
	4983.00	0.12	21.43	4982.93	9.28	-9.33	-0.09	0.21	498959.27	765649.61	N 32 22 10.62	W 103 36 24.47
	5078.00	0.12	3.09	5077.93	9.10	-9.14	-0.04	0.04	498959.46	765649.66	N 32 22 10.62	W 103 36 24.47
	5173.00	0.12	13.60	5172.93	8.90	-8.94	-0.01	0.02	498959.66	765649.69	N 32 22 10.62	W 103 36 24.47
	5267.00	0.04	90.05	5266.93	8.81	-8.84	0.04	0.12	498959.76	765649.74	N 32 22 10.62	W 103 36 24.47
	5457.00	0.10	176.96	5456.93	8.99	-9.01	0.12	0.06	498959.59	765649.82	N 32 22 10.62	W 103 36 24.47
	5551.00	0.17	216.38	5550.93	9.17	-9.20	0.04	0.12	498959.40	765649.74	N 32 22 10.62	W 103 36 24.47
	5646.00	0.10	43.69	5645.93	9.22	-9.26	0.01	0.28	498959.34	765649.71	N 32 22 10.62	W 103 36 24.47
	5741.00	0.10	252.92	5740.93	9.19	-9.22	-0.01	0.20	498959.38	765649.69	N 32 22 10.62	W 103 36 24.47

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 ° ' ")
	5835.00	0.16	239.91	5834.93	9.26	-9.31	-0.20	0.07	498959.29	765649.50	N 32 22 10.62	W 103 36 24.47
	5930.00	0.10	321.34	5929.93	9.25	-9.31	-0.37	0.18	498959.29	765649.33	N 32 22 10.62	W 103 36 24.47
	6119.00	0.15	336.04	6118.93	8.87	-8.96	-0.57	0.03	498959.64	765649.13	N 32 22 10.62	W 103 36 24.47
	6214.00	0.05	293.67	6213.93	8.74	-8.83	-0.66	0.12	498959.77	765649.04	N 32 22 10.62	W 103 36 24.47
	6309.00	0.12	54.42	6308.93	8.87	-8.75	-0.62	0.16	498959.85	765649.08	N 32 22 10.62	W 103 36 24.47
	6403.00	0.09	336.40	6402.93	8.55	-8.63	-0.57	0.14	498959.97	765649.13	N 32 22 10.62	W 103 36 24.47
	6498.00	0.12	353.50	6497.93	8.38	-8.46	-0.61	0.05	498960.14	765649.09	N 32 22 10.62	W 103 36 24.47
	6593.00	0.12	10.23	6592.93	8.18	-8.26	-0.60	0.04	498960.34	765649.10	N 32 22 10.63	W 103 36 24.47
	6687.00	0.17	169.87	6686.93	8.23	-8.31	-0.56	0.30	498960.30	765649.14	N 32 22 10.63	W 103 36 24.47
	6782.00	0.09	39.35	6781.93	8.31	-8.39	-0.49	0.25	498960.21	765649.21	N 32 22 10.63	W 103 36 24.47
	6877.00	0.28	239.41	6876.93	8.36	-8.45	-0.64	0.39	498960.15	765649.06	N 32 22 10.63	W 103 36 24.47
	6971.00	0.21	222.74	6970.93	8.57	-8.69	-0.96	0.11	498959.91	765648.74	N 32 22 10.62	W 103 36 24.48
	7066.00	0.38	236.85	7065.93	8.84	-8.99	-1.34	0.19	498959.61	765648.36	N 32 22 10.62	W 103 36 24.48
	7161.00	0.81	92.48	7160.93	9.08	-9.19	-0.93	1.20	498959.41	765648.77	N 32 22 10.62	W 103 36 24.48
	7361.00	3.43	88.00	7360.77	9.57	-9.04	6.46	1.31	498959.56	765656.16	N 32 22 10.62	W 103 36 24.39
	7410.00	3.92	88.16	7409.67	9.74	-8.94	9.60	1.00	498959.66	765659.30	N 32 22 10.62	W 103 36 24.36
	7505.00	6.37	84.52	7504.28	9.87	-8.33	18.09	2.60	498960.27	765667.79	N 32 22 10.63	W 103 36 24.26
	7599.00	8.91	81.12	7597.44	9.33	-6.71	30.48	2.74	498961.89	765680.18	N 32 22 10.64	W 103 36 24.11
	7694.00	11.25	79.25	7690.97	7.90	-3.84	46.86	2.49	498964.76	765696.55	N 32 22 10.67	W 103 36 23.92
	7789.00	11.79	78.07	7784.05	5.79	-0.11	65.46	0.62	498968.49	765715.15	N 32 22 10.70	W 103 36 23.70
	7884.00	11.52	78.55	7877.09	3.55	3.78	84.25	0.30	498972.38	765733.95	N 32 22 10.74	W 103 36 23.48
	7977.00	11.78	79.90	7968.18	1.66	7.29	102.70	0.41	498975.89	765752.39	N 32 22 10.77	W 103 36 23.27
	8072.00	11.49	79.21	8061.23	-0.16	10.76	121.54	0.34	498979.36	765771.23	N 32 22 10.81	W 103 36 23.05
	8167.00	11.69	79.44	8154.29	-2.05	14.29	140.29	0.22	498982.89	765789.99	N 32 22 10.84	W 103 36 22.83
	8261.00	11.27	79.23	8246.41	-3.91	17.76	158.68	0.45	498986.36	765808.37	N 32 22 10.87	W 103 36 22.61
	8356.00	11.79	80.28	8339.49	-5.64	21.13	177.36	0.59	498989.73	765827.06	N 32 22 10.91	W 103 36 22.40
	8451.00	11.84	81.32	8432.48	-7.07	24.24	196.57	0.23	498992.84	765846.26	N 32 22 10.94	W 103 36 22.17
	8545.00	12.13	80.30	8524.43	-8.51	27.36	215.83	0.38	498995.96	765865.53	N 32 22 10.96	W 103 36 21.95
	8640.00	12.73	80.21	8617.20	-10.21	30.82	235.99	0.63	498999.42	765885.68	N 32 22 11.00	W 103 36 21.71
	8707.00	13.55	81.18	8682.45	-11.35	33.28	251.02	1.27	499001.88	765900.71	N 32 22 11.02	W 103 36 21.54
	8802.00	12.55	82.72	8774.99	-12.51	36.29	272.25	1.11	499004.89	765921.94	N 32 22 11.05	W 103 36 21.29
	8896.00	11.87	79.85	8866.87	-13.79	39.29	291.90	0.97	499007.89	765941.59	N 32 22 11.08	W 103 36 21.06
	8991.00	11.22	81.11	8959.94	-15.30	42.44	310.65	0.73	499011.04	765960.34	N 32 22 11.11	W 103 36 20.84
	9086.00	10.82	81.30	9053.19	-16.51	45.22	328.60	0.42	499013.82	765978.28	N 32 22 11.13	W 103 36 20.63
	9181.00	11.01	76.72	9146.47	-18.39	48.65	346.24	0.93	499017.25	765995.93	N 32 22 11.17	W 103 36 20.43
	9275.00	13.71	78.18	9238.29	-21.01	53.00	365.88	2.89	499021.59	766015.57	N 32 22 11.21	W 103 36 20.20
	9370.00	13.46	75.99	9330.63	-24.09	57.98	387.63	0.60	499026.58	766037.32	N 32 22 11.26	W 103 36 19.94
	9464.00	14.04	79.65	9421.94	-26.87	62.68	409.46	1.11	499031.27	766059.15	N 32 22 11.30	W 103 36 19.69
	9559.00	15.49	80.80	9513.80	-28.88	66.77	433.32	1.56	499035.37	766083.01	N 32 22 11.34	W 103 36 19.41
	9654.00	13.82	81.46	9605.71	-30.52	70.49	457.07	1.77	499039.09	766106.75	N 32 22 11.38	W 103 36 19.13
	9749.00	14.05	79.99	9697.91	-32.23	74.18	479.64	0.44	499042.77	766129.33	N 32 22 11.41	W 103 36 18.87
	9843.00	15.53	81.04	9788.79	-34.11	78.12	503.31	1.60	499046.72	766152.99	N 32 22 11.45	W 103 36 18.59
	9938.00	14.27	90.35	9880.61	-33.90	80.03	527.59	2.84	499048.63	766177.27	N 32 22 11.47	W 103 36 18.31
	10032.00	13.58	99.67	9971.66	-30.03	78.11	550.05	2.49	499046.70	766199.73	N 32 22 11.44	W 103 36 18.05
	10127.00	14.08	101.68	10064.10	-23.90	73.89	572.36	0.73	499042.49	766222.04	N 32 22 11.40	W 103 36 17.79
	10221.00	13.65	101.00	10155.37	-17.56	69.46	594.45	0.49	499038.06	766244.13	N 32 22 11.36	W 103 36 17.53
	10316.00	12.25	106.44	10247.95	-10.80	64.47	615.12	1.95	499033.07	766264.80	N 32 22 11.31	W 103 36 17.29
100' FNL Crossed	*10333.00*	*12.26*	*106.05*	*10264.56*	*-9.49*	*63.46*	*618.59*	*0.49*	*499032.06*	*766268.26*	*N 32 22 11.29*	*W 103 36 17.25*
	10411.00	12.34	104.28	10340.77	-3.77	59.11	634.62	0.49	499027.71	766284.30	N 32 22 11.25	W 103 36 17.06
	10505.00	11.55	109.96	10432.74	3.52	53.42	653.21	1.51	499022.02	766302.88	N 32 22 11.19	W 103 36 16.85
	10600.00	9.58	113.00	10526.12	11.24	47.09	669.42	2.15	499015.69	766319.10	N 32 22 11.13	W 103 36 16.66
	10695.00	7.64	119.62	10620.05	18.53	40.88	682.19	2.29	499009.47	766331.87	N 32 22 11.07	W 103 36 16.51
	10789.00	6.27	127.31	10713.36	25.54	34.68	691.71	1.76	499003.28	766341.38	N 32 22 11.01	W 103 36 16.40
	10884.00	6.03	133.33	10807.81	32.75	28.11	699.46	0.72	498996.71	766349.14	N 32 22 10.94	W 103 36 16.31
	10913.00	5.72	134.38	10836.66	34.99	26.05	701.60	1.13	498994.65	766351.28	N 32 22 10.92	W 103 36 16.28
KOP Actual	10973.00	5.93	144.03	10896.35	39.91	21.45	705.56	1.67	498990.05	766355.24	N 32 22 10.87	W 103 36 16.24
	11068.00	20.19	164.75	10988.69	60.37	1.55	712.80	15.57	498970.15	766362.47	N 32 22 10.68	W 103 36 16.16
	11163.00	24.85	147.90	11076.52	94.32	-31.23	727.74	8.33	498937.38	766377.41	N 32 22 10.35	W 103 36 15.98
	11257.00	31.69	147.18	11159.26	133.78	-68.75	751.65	7.29	498899.85	766401.32	N 32 22 9.98	W 103 36 15.71
	11352.00	44.47	157.14	11233.95	187.79	-120.65	778.23	14.89	498847.96	766427.90	N 32 22 9.46	W 103 36 15.40
	11447.00	61.08	164.88	11291.27	260.97	-192.01	802.19	18.63	498776.59	766451.87	N 32 22 8.75	W 103 36 15.13
	11542.00	62.50	171.24	11336.22	344.01	-273.86	819.47	6.09	498694.75	766469.14	N 32 22 7.94	W 103 36 14.93
	11637.00	67.44	172.23	11376.40	429.92	-359.02	831.83	5.28	498609.59	766481.50	N 32 22 7.10	W 103 36 14.80
	11732.00	80.55	175.59	11402.54	521.00	-449.62	841.40	14.21	498519.00	766491.07	N 32 22 6.20	W 103 36 14.69
	11826.00	92.66	181.93	11408.10	614.42	-543.21	843.40	14.53	498425.41	766493.07	N 32 22 5.28	W 103 36 14.68
	11921.00	93.31	181.94	11403.16	708.60	-638.03	840.19	0.68	498330.60	766489.86	N 32 22 4.34	W 103 36 14.72
	11986.00	94.09	181.75	11398.96	773.00	-702.86	838.10	1.23	498265.77	766487.78	N 32 22 3.70	W 103 36 14.75
	12079.00	93.09	182.99	11393.14	865.05	-795.59	834.27	1.71	498173.04	766483.94	N 32 22 2.78	W 103 36 14.80
	12172.00	90.65	184.68	11390.10	956.89	-888.32	828.05	3.19	498080.31	766477.72	N 32 22 1.86	W 103 36 14.88
	12265.00	88.65	182.50	11390.67	1048.84	-981.13	822.23	3.18	497987.50	766471.90	N 32 22 0.95	W 103 36 14.96
	12359.00	89.91	177.81	11391.85	1142.43	-1075.09	821.97	5.17	497893.54	766471.64	N 32 22 0.02	W 103 36 14.97
	12452.00	90.05	178.76	11391.89	1235.28	-1168.05	824.76	1.03	497800.59	766474.43	N 32 21 59.10	W 103 36 14.94
	12545.00	89.48	180.65	11392.27	1327.96	-1261.04	825.23	2.12	497707.60	766474.91	N 32 21 58.18	W 103 36 14.95
	12638.00	89.74	179.48	11392.90	1420.59	-1354.04	825.13	1.29	497614.61	766474.80	N 32 21 57.26	W 103 36 14.95
	12732.00	89.61	179.22	11393.43	1514.32	-1448.03	826.20	0.31	497520.62	766475.87	N 32 21 56.33	W 103 36 14.95
	12825.00	89.63	180.74	11394.05	1606.97	-1541.03	826.23	1.63	497427.63	766475.90	N 32 21 55.41	W 103 36 14.96
	12918.00	90.13	183.45	11394.25	1699.25	-1633.98	822.83	2.96	497334.70	766472.50	N 32 21 54.49	W 103 36 15.00
	13012.00	89.65	181.96	11394.43	1792.40	-1727.85	818.39	1.67	497240.81	766468.06	N 32 21 53.56	W 103 36 15.06
	13106.00	89.24	181.79	11395.34	1885.73	-1821.79	815.32	0.47	497146.87	766464.99	N 32 21 52.63	W 103 36 15.11
	13201.00	89.80	177.27	11396.13	1980.40	-1916.76	816.10	4.78	497051.90	766465.77	N 32 21 51.69	W 103 36 15.10
	13295.00	89.30	179.51	11396.87	2074.23	-2010.72	818.74	2.44	496957.95	766468.41	N 32 21 50.76	W 103 36 15.08
	13390.00	89.44	177.26	11397.92	2169.06	-2105.67	821.41	2.37	496863.01	766471.09	N 32 21 49.82	W 103 36 15.06
	13485.00	89.63	179.68	11398.69	2263.87	-2200.62	823.95	2.56	496768.05	766473.62	N 32 21 48.88	W 103 36 15.03
	13580.00	89.90	179.10	11399.08	2358.60	-2295.62	824.96	0.67	496673.06	766474.63	N 32 21 47.94	W 103 36 15.03
	13674.00	89.64	179.58	11399.45	2452.33	-2389.61	826.04	0.58	496579.08	766475.72	N 32 21 47.01	W 103 36 15.03
	13769.00	89.71	179.00	11399.99	2547.06	-2484.60	827.22	0.61	496484.09	766476.89	N 32 21 46.07	W 103 36 15.02
	13864.00	89.91	179.63	11400.31	2641.79	-2579.59	828.38	0.70	496389.10	766478.03	N 32 21 45.13	W 103 36 15.01
	14053.00	90.00	179.78	11400.46	2830.16	-2768.59	829.33	0.09	496200.11	766479.00	N 32 21 43.26	W 103 36 15.02
	14242.00	89.77	182.32	11400.84	3018.10	-2957.54	825.87	1.35	496011.16	766475.54	N 32 21 41.39	W 103 36 15.07
	14337.00	89.72	182.27	11401.26	3112.33	-3052.46	822.06	0.07	495916.24	766471.73	N 32 21 40.45	W 103 36 15.12
	14432.00	89.56	177.98	11401.86	3206.93	-3147.44	821.86	4.52	495821.27	766471.53	N 32 21 39.51	W 103 36 15.13
	14527.00	89.45	176.84	11402.68	3301.84	-3242.34	826.15	1.21	495726.38	766475.82	N 32 21 38.57	W 103 36 15.09
	14717.00	89.45	178.79	11404.50	3491.60	-3432.18	833.39	1.03	495536.54	766483.06	N 32 21 36.69	W 103 36 15.02
	14812.00	89.13	174.74	11405.68	3586.53	-3527.00	838.75	4.28	495441.72	766488.42	N 32 21 35.75	W 103 36 14.97
	14907.00	89.38	177.54	11406.91	3681.49	-3621.77	845.15	2.96	495346.96	766494.82	N 32 21 34.82	W 103 36 14.90
	15001.00	89.19	178.00	11408.09	3775.37	-3715.69	848.80	0.53	495253.04	766498.47	N 32 21 33.89	W 103 36 14.87
	15096.00	91.75	172.93	11407.31	3870.33	-3810.35	856.31	5.98	495158.38	766505.98	N 32 21 32.95	W 103 36 14.79
	15191.00	90.17	175.79	11405.71	3965.30	-3904.87	865.64	3.44	495063.87	766515.31	N 32 21 32.01	W 103 36 14.68
	15285.00	89.88	182.01	11405.67	4059.04	-3998.80	867.45	6.62	494969.94	766517.12	N 32 21 31.08	W 103 36 14.67
	15380.00	90.04	182.86	11405.74	4153.24	-4093.72	863.41	0.91	494875.03	766513.08	N 32 21 30.14	W 103 36 14.72
	15474.00	90.21	184.88	11405.53	4246.11	-4187.50	857.07	2.16	494781.25	766506.74	N 32 21 29.22	W 103 36 14.81
	15569.00	90.51	186.54	11404.94	4339.46	-4282.02	847.62	1.78	494686.73	766497.29	N 32 21 28.28	W 103 36 14.92
	15664.00	90.01	187.23	11404.51	4432.43	-4376.33	836.23	0.90	494592.42	766485.90	N 32 21 27.35	W 103 36 15.06
	15759.00	90.45	186.80	11404.13	4525.35	-4470.62	824.63	0.65	494498.14	766474.30	N 32 21 26.42	W 103 36 15.21
	15853.00	90.48	185.32	11403.36	4617.60	-4564.09	814.70	1.57	494404.67	766464.37	N 32 21 25.49	W 103 36 15.33
Exit Target Box 1	*15908.50*	*91.10*	*183.45*	*11402.60*	*4672.36*	*-4619.42*	*810.46*	*3.55*	*494349.34*	*766460.13*	*N 32 21 24.95*	*W 103 36 15.38*
	15948.00	91.54	182.12	11401.69	4711.48	-4658.86	808.54	3.55	494309.90	766458.21	N 32 21 24.56	W 103 36 15.41

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 ° ' ")
	16043.00	93.62	176.52	11397.41	4806.08	-4753.71	809.66	6.28	494215.05	766459.33	N 32 21 23.62	W 103 36 15.40
Enter Target Box 1	*16082.00*	*92.95*	*177.25*	*11395.17*	*4844.99*	*-4792.59*	*811.78*	*2.54*	*494176.18*	*766461.45*	*N 32 21 23.23*	*W 103 36 15.38*
	16137.00	92.01	178.29	11392.79	4899.87	-4847.50	813.91	2.54	494121.27	766463.58	N 32 21 22.69	W 103 36 15.36
	16232.00	90.36	179.50	11390.83	4994.63	-4942.46	815.74	2.15	494026.32	766465.41	N 32 21 21.75	W 103 36 15.35
	16327.00	89.48	180.90	11390.96	5089.24	-5037.45	815.41	1.74	493931.33	766465.08	N 32 21 20.81	W 103 36 15.36
Exit Target Box 2	*16390.50*	*89.37*	*181.37*	*11391.60*	*5152.37*	*-5100.94*	*814.15*	*0.78*	*493867.84*	*766463.83*	*N 32 21 20.18*	*W 103 36 15.38*
	16422.00	89.31	181.60	11391.96	5183.67	-5132.42	813.34	0.76	493836.36	766463.01	N 32 21 19.87	W 103 36 15.39
	16516.00	89.64	181.13	11392.82	5277.09	-5226.39	811.10	0.61	493742.39	766460.77	N 32 21 18.94	W 103 36 15.42
	16611.00	89.51	180.64	11393.53	5371.59	-5321.38	809.63	0.53	493647.41	766459.30	N 32 21 18.00	W 103 36 15.45
	16705.00	89.34	179.78	11394.47	5465.20	-5415.37	809.29	0.93	493553.42	766458.96	N 32 21 17.07	W 103 36 15.46
	16800.00	89.35	178.98	11395.56	5559.92	-5510.36	810.32	0.84	493458.44	766459.99	N 32 21 16.13	W 103 36 15.46
	16895.00	89.71	178.09	11396.34	5654.73	-5605.32	812.74	1.01	493363.47	766462.42	N 32 21 15.19	W 103 36 15.44
	16989.00	89.44	178.22	11397.03	5748.59	-5699.27	815.77	0.32	493269.53	766465.44	N 32 21 14.26	W 103 36 15.41
	17084.00	89.64	178.95	11397.80	5843.40	-5794.24	818.12	0.80	493174.57	766467.79	N 32 21 13.32	W 103 36 15.39
	17179.00	89.48	179.51	11398.54	5938.14	-5889.23	819.39	0.62	493079.58	766469.06	N 32 21 12.38	W 103 36 15.38
	17273.00	89.36	178.71	11399.51	6031.90	-5983.21	820.85	0.86	492985.60	766470.52	N 32 21 11.45	W 103 36 15.37
Enter Target Box 2	*17278.50*	*89.38*	*178.67*	*11399.57*	*6037.38*	*-5988.71*	*820.98*	*0.81*	*492980.10*	*766470.65*	*N 32 21 11.40*	*W 103 36 15.37*
	17368.00	89.78	178.07	11400.22	6126.73	-6078.17	823.52	0.81	492890.65	766473.19	N 32 21 10.51	W 103 36 15.35
	17463.00	89.41	177.10	11400.90	6221.63	-6173.08	827.53	1.09	492795.74	766477.20	N 32 21 9.57	W 103 36 15.31
	17558.00	89.37	175.79	11401.91	6316.59	-6267.89	833.42	1.38	492700.93	766483.09	N 32 21 8.63	W 103 36 15.25
	17632.00	89.80	174.66	11402.44	6390.59	-6341.63	839.58	1.63	492627.19	766489.25	N 32 21 7.90	W 103 36 15.18
	17822.00	89.94	176.86	11402.87	6580.56	-6531.10	853.62	1.16	492437.73	766503.29	N 32 21 6.03	W 103 36 15.03
	17917.00	89.77	178.97	11403.11	6675.43	-6626.03	857.08	2.23	492342.80	766506.75	N 32 21 5.09	W 103 36 15.00
	18011.00	89.46	179.43	11403.75	6769.18	-6720.02	858.39	0.59	492248.82	766508.06	N 32 21 4.16	W 103 36 14.99
	18106.00	90.01	179.27	11404.19	6863.91	-6815.01	859.47	0.60	492153.83	766509.14	N 32 21 3.22	W 103 36 14.99
	18201.00	89.91	178.27	11404.25	6958.70	-6909.99	861.51	1.06	492058.86	766511.18	N 32 21 2.28	W 103 36 14.97
	18296.00	90.04	178.45	11404.29	7053.54	-7004.95	864.23	0.23	491963.90	766513.90	N 32 21 1.34	W 103 36 14.95
	18390.00	90.08	179.54	11404.20	7147.31	-7098.93	865.87	1.16	491869.92	766515.54	N 32 21 0.41	W 103 36 14.93
	18484.00	90.15	180.81	11404.01	7240.93	-7192.93	865.59	1.35	491775.92	766515.26	N 32 20 59.48	W 103 36 14.95
	18579.00	89.53	181.90	11404.27	7335.35	-7287.90	863.34	1.32	491680.96	766513.01	N 32 20 58.54	W 103 36 14.98
	18674.00	89.73	182.32	11404.89	7429.62	-7382.83	859.84	0.49	491586.03	766509.51	N 32 20 57.60	W 103 36 15.03
	18768.00	90.63	182.06	11404.59	7522.88	-7476.76	856.25	1.00	491492.10	766505.92	N 32 20 56.67	W 103 36 15.08
	18863.00	90.90	182.20	11403.32	7617.14	-7571.69	852.72	0.32	491397.18	766502.39	N 32 20 55.73	W 103 36 15.13
	19053.00	90.25	182.27	11401.41	7805.62	-7761.54	845.31	0.34	491207.34	766494.98	N 32 20 53.85	W 103 36 15.23
	19148.00	89.70	180.78	11401.46	7900.01	-7856.50	842.78	1.67	491112.38	766492.45	N 32 20 52.91	W 103 36 15.26
	19243.00	89.73	178.48	11401.93	7994.69	-7951.49	843.40	2.42	491017.39	766493.07	N 32 20 51.97	W 103 36 15.26
	19337.00	90.83	177.71	11401.47	8088.56	-8045.43	846.52	1.43	490923.45	766496.19	N 32 20 51.04	W 103 36 15.24
	19432.00	89.56	176.32	11401.15	8183.49	-8140.30	851.47	1.98	490828.59	766501.14	N 32 20 50.11	W 103 36 15.19
	19526.00	90.15	176.85	11401.38	8277.46	-8234.13	857.07	0.84	490734.76	766506.74	N 32 20 49.18	W 103 36 15.13
	19621.00	89.60	177.58	11401.59	8372.39	-8329.02	861.68	0.96	490639.88	766511.35	N 32 20 48.24	W 103 36 15.08
	19810.00	89.39	177.28	11403.26	8561.21	-8517.82	870.16	0.19	490451.08	766519.83	N 32 20 46.37	W 103 36 15.00
	19905.00	89.97	177.93	11403.79	8656.11	-8612.74	874.13	0.92	490356.17	766523.80	N 32 20 45.43	W 103 36 14.96
	19999.00	90.04	178.06	11403.78	8749.98	-8706.68	877.42	0.16	490262.23	766527.09	N 32 20 44.50	W 103 36 14.93
	20094.00	90.49	179.30	11403.34	8844.79	-8801.65	879.61	1.39	490167.26	766529.27	N 32 20 43.56	W 103 36 14.91
	20189.00	89.97	180.00	11402.96	8939.47	-8896.65	880.19	0.92	490072.27	766529.85	N 32 20 42.62	W 103 36 14.91
	20284.00	89.08	180.20	11403.75	9034.10	-8991.64	880.02	0.96	489977.28	766529.69	N 32 20 41.68	W 103 36 14.92
	20378.00	90.22	180.51	11404.32	9127.69	-9085.64	879.44	1.26	489883.28	766529.11	N 32 20 40.75	W 103 36 14.93
	20473.00	89.66	179.73	11404.42	9222.31	-9180.64	879.24	1.01	489788.29	766528.91	N 32 20 39.81	W 103 36 14.94
	20567.00	90.21	179.68	11404.53	9315.99	-9274.63	879.72	0.59	489694.29	766529.39	N 32 20 38.88	W 103 36 14.95
	20662.00	89.49	177.97	11404.78	9410.78	-9369.61	881.67	1.95	489599.32	766531.34	N 32 20 37.94	W 103 36 14.93
	20757.00	89.94	177.34	11405.25	9505.68	-9464.53	885.56	0.81	489504.41	766535.23	N 32 20 37.00	W 103 36 14.89
	20851.00	89.63	177.84	11405.60	9599.58	-9558.44	889.51	0.63	489410.49	766539.18	N 32 20 36.07	W 103 36 14.85
	20946.00	90.48	179.04	11405.53	9694.41	-9653.41	892.10	1.54	489315.54	766541.76	N 32 20 35.13	W 103 36 14.83
	21041.00	90.25	180.05	11404.94	9789.11	-9748.40	892.85	1.09	489220.54	766542.52	N 32 20 34.19	W 103 36 14.83
	21136.00	89.70	180.48	11404.98	9883.71	-9843.40	892.41	0.73	489125.55	766542.08	N 32 20 33.25	W 103 36 14.84
	21230.00	90.15	180.65	11405.10	9977.27	-9937.39	891.48	0.51	489031.56	766541.15	N 32 20 32.32	W 103 36 14.86
	21325.00	90.70	181.90	11404.40	10071.70	-10032.36	889.37	1.44	488936.59	766539.04	N 32 20 31.38	W 103 36 14.89
	21419.00	89.56	181.67	11404.18	10165.04	-10126.32	886.44	1.24	488842.64	766536.11	N 32 20 30.45	W 103 36 14.94
	21514.00	89.73	181.96	11404.77	10259.37	-10221.27	883.43	0.35	488747.69	766533.10	N 32 20 29.51	W 103 36 14.98
100' FSL Crossed	*21588.00*	*90.03*	*182.09*	*11404.93*	*10332.82*	*-10295.22*	*880.82*	*0.44*	*488673.74*	*766530.49*	*N 32 20 28.78*	*W 103 36 15.01*
Final MWD	21609.00	90.11	182.13	11404.91	10353.66	-10316.21	880.04	0.44	488652.76	766529.71	N 32 20 28.57	W 103 36 15.03
Proj to TD	21667.00	90.11	182.13	11404.79	10411.21	-10374.17	877.89	0.00	488594.80	766527.56	N 32 20 28.00	W 103 36 15.05

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 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	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD
	1	26.500	26.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD
	1	26.500	1035.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro +
	1	1035.500	7161.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD
	1	7161.000	7884.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro +
	1	7884.000	21667.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Avogato 30-31 State Com 74H Gyro + MWD 0-21667'MD