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

October 30, 2019

Oxy USA Inc
P.O. BOX 2289
Houston, TX 77252

Re:

30, 22S, 33E, Lea NM
N 32.36943 W -103.61519

CLIENT: Oxy USA Inc
WELL: Avogato 30-31 State Com 33H
FIELD: 3rd Bone Spring Sand

RIG: Pioneer 82
COUNTY: Lea
API NO: 30-025-45928
JOB NO: 19MLH0353

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
Balqees Alabdullah FE	Avogato 30-31 State Com 33H Original Hole	1109.00 Ft 22060.00 Ft	to	September 14, 2019 October 14, 2019	to	TelePacer, SlimPulse 3rd 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:
30, 22S, 33E, Lea NM
N 32.36943 W -103.61519

I, Balqees Alabdullah certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of September 14, 2019 through October 14, 2019, conduct or supervise the taking of the TelePacer, SlimPulse & 3rd Party Corrected surveys from a depth of 1109.00 feet to a depth of 22060.00 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 33H Well (Original Hole) API No. 30-025-45928 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
Balqees Alabdullah
FE

Balqees.

Subscribed and Sworn to before me this 30 day of October (month) 2019 (yr)

My Commission expires:
6/14/2023

Jean-Paul Langlois (signature)
Notary Public
Cimarron, Oklahoma
(County State)

Jean-Paul Langlois
Notary Public in and for
STATE OF OKLAHOMA
Commission #19005686
Expires: June 14, 2023

Schlumberger

OXY

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Avogato 30-31 State Com 33H	NM Lea County (NAD 83)	Oxy Avogato 30-31 State Com 33H

Gravity & Magnetic Parameters

Model: IFR1 Dip: 60.065° Date: 04-Oct-2019
MagDec: 6.809° FS: 48048nT Gravity FS: 998.443mgn (9.80665 Based)

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

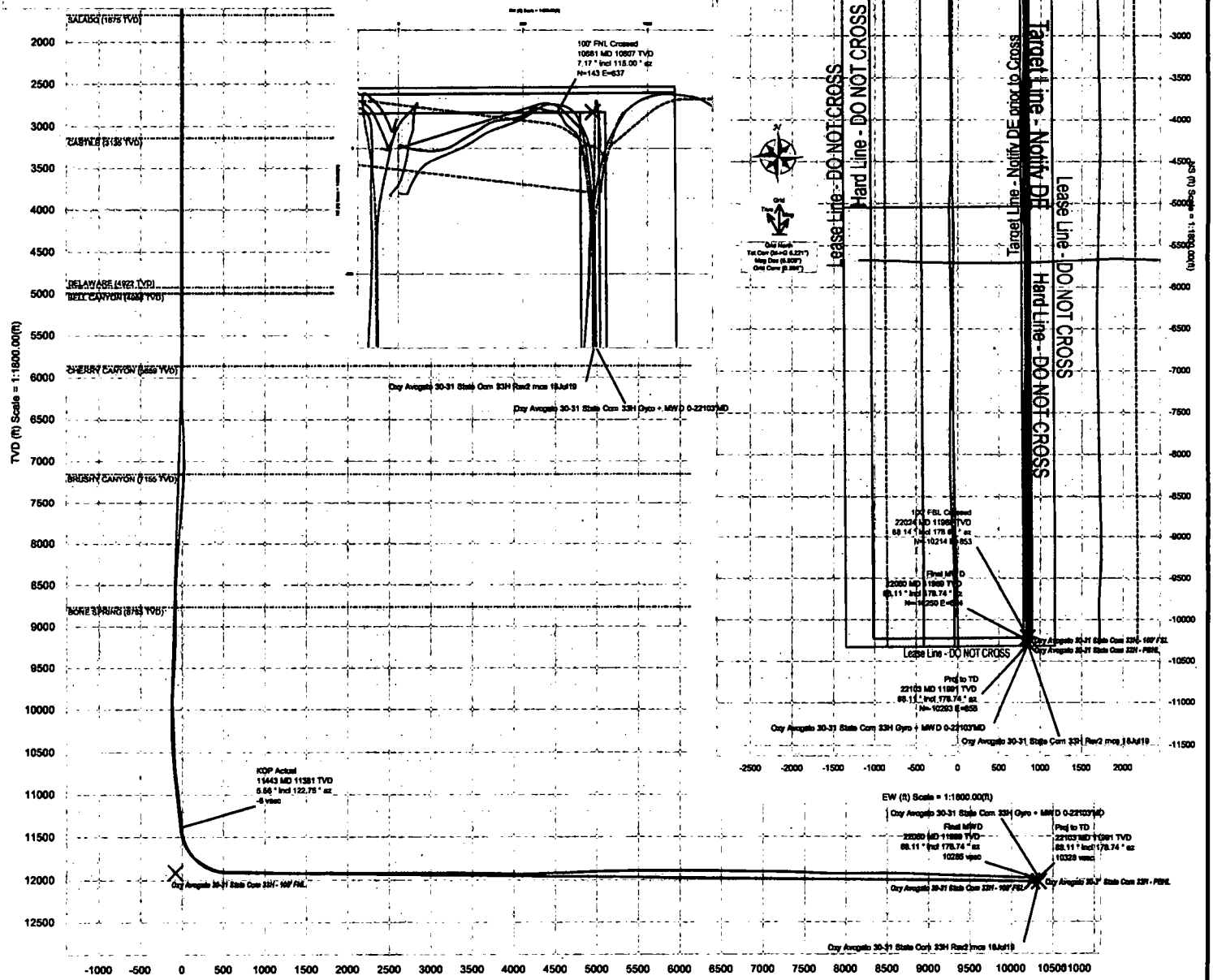
Lat: N 32 22 9.86 Northing: 436874.97US Grid Conv: 0.3943°
Lon: W 103 36 54.70 Easting: 783657.11US Scale Fact: 0.99996339

Miscellaneous

Slot: Oxy Avogato 30-31 State Com 33H TVD Ref: RKB(3728.7ft above MSL)
Plan: Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
RKB	0.00	0.00	145.21	0.00	0.00	0.00	0.00	
SHL	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00
Final Gyro	1022.00	1.20	355.53	1021.91	-9.85	10.08	2.40	0.52
100' FNL Crossed	10661.00	7.17	115.00	10606.70	-90.46	143.45	636.71	2.66
KOP Actual	11443.00	5.56	122.75	11381.12	-6.44	65.05	708.29	2.78
100' FSL Crossed	22024.00	88.14	178.66	11988.16	10249.16	-10213.57	853.47	0.24
Final MWD	22060.00	88.11	178.74	11989.34	10285.08	-10249.54	854.29	0.24
Proj to TD	22103.00	88.11	178.74	11990.75	10327.97	-10292.50	855.23	0.00



Schlumberger

Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD Survey
Geodetic Report
(Def Survey)

Report Date:	October 14, 2019 - 11:57 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	175.271 ° (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 33H / Oxy Avogato 30-31 State Com 33H	**TVD Reference Datum:**	RKB
Well:	Oxy Avogato 30-31 State Com 33H	**TVD Reference Elevation:**	3726.700 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3701.700 ft above MSL
UWI / API#:	Unknown / 30-025-45928	**Magnetic Declination:**	6.605 °
Survey Name:	Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD	**Total Gravity Field Strength:**	998.4486mgn (9.80665 Based)
Survey Date:	August 26, 2019	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	265.470 ° / 11183.823 ft / 6.738 / 0.933	**Total Magnetic Field Strength:**	48048.000 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	60.085 °
Location Lat / Long:	N 32° 22' 9.95170", W 103° 36' 54.70192"	**Declination Date:**	October 04, 2019
Location Grid N/E Y/X:	N 488874.600 ftUS, E 763057.100 ftUS	**Magnetic Declination Model:**	IFR1
CRS Grid Convergence Angle:	0.3845 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99996539	**Grid Convergence Used:**	0.3845 °
Version / Patch:	2.10.782.0	**Total Corr Mag North->Grid North:**	6.2205 °
		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 ° ' ")
RKB	0.00	0.00	145.21	0.00	0.00	0.00	0.00	N/A	498874.60	763057.10	N 32 22 9.95	W 103 36 54.70
SHL	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	498874.60	763057.10	N 32 22 9.95	W 103 36 54.70
	98.00	0.25	303.65	98.00	-0.10	0.09	-0.13	0.34	498874.69	763056.97	N 32 22 9.95	W 103 36 54.70
	129.00	0.25	316.10	129.00	-0.19	0.17	-0.24	0.17	498874.77	763056.86	N 32 22 9.95	W 103 36 54.70
	160.00	0.14	337.12	160.00	-0.28	0.26	-0.30	0.42	498874.88	763056.80	N 32 22 9.95	W 103 36 54.71
	215.40	0.20	47.19	215.40	-0.41	0.39	-0.25	0.36	498874.99	763056.85	N 32 22 9.96	W 103 36 54.70
	242.80	0.24	79.88	242.80	-0.44	0.43	-0.16	0.47	498875.03	763056.94	N 32 22 9.96	W 103 36 54.70
	274.30	0.21	87.77	274.30	-0.44	0.44	-0.04	0.14	498875.04	763057.06	N 32 22 9.96	W 103 36 54.70
	305.80	0.25	73.22	305.80	-0.46	0.46	0.08	0.22	498875.06	763057.18	N 32 22 9.96	W 103 36 54.70
	337.30	0.21	57.97	337.30	-0.50	0.52	0.20	0.23	498875.12	763057.30	N 32 22 9.96	W 103 36 54.70
	368.80	0.23	52.64	368.80	-0.56	0.58	0.30	0.09	498875.18	763057.40	N 32 22 9.96	W 103 36 54.70
	400.30	0.27	49.43	400.30	-0.64	0.67	0.41	0.13	498875.27	763057.51	N 32 22 9.96	W 103 36 54.70
	431.90	0.38	45.48	431.90	-0.75	0.79	0.54	0.36	498875.39	763057.64	N 32 22 9.96	W 103 36 54.70
	463.40	0.43	40.62	463.40	-0.90	0.96	0.69	0.19	498875.56	763057.79	N 32 22 9.96	W 103 36 54.69
	495.00	0.50	38.41	495.00	-1.08	1.16	0.85	0.25	498875.76	763057.95	N 32 22 9.96	W 103 36 54.69
	526.40	0.57	33.39	526.39	-1.31	1.40	1.01	0.24	498876.00	763058.11	N 32 22 9.97	W 103 36 54.69
	558.00	0.67	27.33	557.99	-1.59	1.69	1.19	0.38	498876.29	763058.29	N 32 22 9.97	W 103 36 54.69
	589.50	0.80	17.23	589.49	-1.95	2.07	1.34	0.58	498876.67	763058.44	N 32 22 9.97	W 103 36 54.69
	621.00	0.82	20.84	620.99	-2.36	2.49	1.48	0.17	498877.09	763058.58	N 32 22 9.98	W 103 36 54.68
	652.60	0.93	16.91	652.58	-2.80	2.94	1.64	0.40	498877.54	763058.74	N 32 22 9.98	W 103 36 54.68
	684.10	1.00	9.90	684.08	-3.30	3.46	1.76	0.44	498878.06	763058.86	N 32 22 9.99	W 103 36 54.68
	715.60	1.00	10.07	715.57	-3.83	4.00	1.85	0.01	498878.60	763058.95	N 32 22 9.99	W 103 36 54.68
	747.10	1.01	9.64	747.07	-4.37	4.54	1.95	0.04	498879.14	763059.05	N 32 22 10.00	W 103 36 54.68
	778.60	1.12	3.98	778.56	-4.94	5.13	2.02	0.48	498879.73	763059.12	N 32 22 10.00	W 103 36 54.68
	810.10	1.19	6.71	810.06	-5.57	5.76	2.07	0.28	498880.36	763059.17	N 32 22 10.01	W 103 36 54.68
	841.70	1.15	7.15	841.65	-6.20	6.40	2.15	0.13	498881.00	763059.25	N 32 22 10.01	W 103 36 54.68
	873.20	1.20	5.46	873.14	-6.83	7.04	2.22	0.19	498881.64	763059.32	N 32 22 10.02	W 103 36 54.68
	904.70	1.20	5.19	904.64	-7.48	7.70	2.28	0.02	498882.30	763059.38	N 32 22 10.03	W 103 36 54.67
	936.20	1.16	5.03	936.13	-8.12	8.34	2.34	0.13	498882.94	763059.44	N 32 22 10.03	W 103 36 54.67
	967.70	1.16	3.61	967.62	-8.75	8.98	2.39	0.09	498883.58	763059.49	N 32 22 10.04	W 103 36 54.67
	999.30	1.15	0.75	999.22	-9.38	9.62	2.41	0.19	498884.21	763059.51	N 32 22 10.05	W 103 36 54.67
Final Gyro	1022.00	1.20	355.53	1021.91	-9.85	10.08	2.40	0.52	498884.68	763059.50	N 32 22 10.05	W 103 36 54.67
	1109.00	0.21	285.88	1108.91	-10.81	11.03	2.17	1.31	498885.63	763059.27	N 32 22 10.06	W 103 36 54.68
	1201.00	0.09	273.73	1200.90	-10.88	11.08	1.94	0.13	498885.68	763059.04	N 32 22 10.06	W 103 36 54.68
	1293.00	0.13	221.20	1292.90	-10.82	11.01	1.80	0.11	498885.61	763058.90	N 32 22 10.06	W 103 36 54.68
	1385.00	0.01	23.08	1384.90	-10.76	10.94	1.73	0.15	498885.54	763058.83	N 32 22 10.06	W 103 36 54.68
	1480.00	0.07	64.95	1479.90	-10.78	10.97	1.79	0.07	498885.57	763058.89	N 32 22 10.06	W 103 36 54.68
	1575.00	0.18	210.30	1574.90	-10.68	10.87	1.77	0.25	498885.47	763058.87	N 32 22 10.06	W 103 36 54.68
	1670.00	0.08	91.47	1669.90	-10.55	10.74	1.76	0.24	498885.33	763058.86	N 32 22 10.06	W 103 36 54.68
	1765.00	0.07	21.87	1764.90	-10.60	10.79	1.85	0.09	498885.39	763058.95	N 32 22 10.06	W 103 36 54.68
	1955.00	0.12	347.78	1954.90	-10.90	11.09	1.85	0.04	498885.69	763058.95	N 32 22 10.06	W 103 36 54.68
	2051.00	0.14	37.45	2050.90	-11.09	11.28	1.90	0.12	498885.88	763059.00	N 32 22 10.06	W 103 36 54.68
	2145.00	0.12	211.75	2144.90	-11.09	11.29	1.92	0.28	498885.89	763059.02	N 32 22 10.06	W 103 36 54.68
	2241.00	0.09	84.47	2240.90	-11.01	11.21	1.94	0.20	498885.81	763059.04	N 32 22 10.06	W 103 36 54.68
	2336.00	0.01	182.06	2335.90	-11.00	11.21	2.01	0.10	498885.81	763059.11	N 32 22 10.06	W 103 36 54.68
	2430.00	0.01	64.32	2429.90	-11.00	11.20	2.02	0.02	498885.80	763059.12	N 32 22 10.06	W 103 36 54.68
	2620.00	0.07	137.84	2619.90	-10.91	11.13	2.11	0.04	498885.72	763059.21	N 32 22 10.06	W 103 36 54.68
	2715.00	0.14	48.99	2714.90	-10.94	11.16	2.24	0.16	498885.76	763059.34	N 32 22 10.06	W 103 36 54.67
	2811.00	0.07	6.55	2810.90	-11.06	11.29	2.33	0.10	498885.89	763059.43	N 32 22 10.06	W 103 36 54.67
	2905.00	0.12	351.25	2904.90	-11.22	11.45	2.32	0.06	498886.05	763059.42	N 32 22 10.06	W 103 36 54.67
	3000.00	0.24	37.65	2999.90	-11.46	11.70	2.43	0.19	498886.30	763059.53	N 32 22 10.07	W 103 36 54.67
	3096.00	0.11	13.05	3095.90	-11.70	11.95	2.57	0.15	498886.55	763059.67	N 32 22 10.07	W 103 36 54.67
	3191.00	0.17	56.68	3190.90	-11.85	12.12	2.71	0.12	498886.72	763059.81	N 32 22 10.07	W 103 36 54.67
	3286.00	0.08	20.21	3285.90	-11.98	12.26	2.85	0.12	498886.86	763059.95	N 32 22 10.07	W 103 36 54.67
	3381.00	0.12	59.01	3380.90	-12.09	12.37	2.96	0.08	498886.97	763060.06	N 32 22 10.07	W 103 36 54.67
	3477.00	0.19	216.19	3476.90	-12.01	12.30	2.95	0.32	498886.90	763060.05	N 32 22 10.07	W 103 36 54.67
	3571.00	0.14	198.01	3570.90	-11.79	12.06	2.83	0.08	498886.66	763059.93	N 32 22 10.07	W 103 36 54.67
	3761.00	0.24	103.59	3760.90	-11.45	11.75	3.14	0.15	498886.35	763060.24	N 32 22 10.07	W 103 36 54.66
	3952.00	0.24	85.25	3951.90	-11.32	11.69	3.93	0.04	498886.29	763061.03	N 32 22 10.07	W 103 36 54.66
	4141.00	0.41	79.79	4140.90	-11.39	11.84	4.99	0.09	498886.44	763062.09	N 32 22 10.07	W 103 36 54.64
	4332.00	0.38	81.29	4331.89	-11.50	12.06	6.29	0.02	498886.65	763063.39	N 32 22 10.07	W 103 36 54.63
	4427.00	0.21	80.50	4426.89	-11.53	12.13	6.77	0.18	498886.73	763063.87	N 32 22 10.07	W 103 36 54.62
	4522.00	0.30	90.86	4521.89	-11.52	12.16	7.19	0.11	498886.76	763064.29	N 32 22 10.07	W 103 36 54.62
	4618.00	0.12	51.41	4617.89	-11.55	12.22	7.52	0.23	498886.82	763064.62	N 32 22 10.07	W 103 36 54.61
	4713.00	0.18	275.91	4712.89	-11.64	12.29	7.45	0.29	498886.89	763064.55	N 32 22 10.07	W 103 36 54.61
	4808.00	0.27	291.50	4807.89	-11.76	12.39	7.09	0.11	498886.99	763064.19	N 32 22 10.07	W 103 36 54.62
	4902.00	0.24	308.45	4901.89	-12.00	12.59	6.73	0.09	498887.19	763063.83	N 32 22 10.08	W 103 36 54.62
	4996.00	0.12	228.75	4995.89	-12.07	12.65	6.51	0.26	498887.25	763063.60	N 32 22 10.08	W 103 36 54.63
	5091.00	0.14	350.99	5090.89	-12.13	12.70	6.41	0.24	498887.30	763063.51	N 32 22 10.08	W 103 36 54.63
	5188.00	0.06	166.29	5185.89	-12.20	12.77	6.41	0.21	498887.37	763063.51	N 32 22 10.08	W 103 36 54.63
	5280.00	0.13	101.27	5279.89	-12.12	12.70	6.52	0.13	498887.30	763063.62	N 32 22 10.08	W 103 36 54.62
	5375.00	0.18	76.96	5374.89	-12.11	12.71	6.77	0.09	498887.31	763063.87	N 32 22 10.08	W 103 36 54.62
	5469.00	0.24	47.19	5468.88	-12.25	12.88	7.06	0.13	498887.48	763064.16	N 32 22 10.08	W 103 36 54.62
	5565.00	0.24	39.97	5564.88	-12.52	13.17	7.34	0.03	498887.77	763064.44	N 32 22 10.08	W 103 36 54.62
	5659.00	0.13	5.92	5658.88	-12.76	13.43	7.48	0.16	498888.03	763064.58	N 32 22 10.08	W 103 36 54.61
	5754.00	0.18	337.71	5753.88	-13.01	13.67	7.43	0.09	498888.27	763064.53	N 32 22 10.09	W 103 36 54.61
	5849.00	0.24	328.27	5848.88	-13.33	13.97	7.26	0.08	498888.57	763064.36	N 32 22 10.09	W 103 36 54.62
	5944.00	0.21	24.04	5943.88	-13.65	14.30	7.22	0.23	498888.90	763064.32	N 32 22 10.09	W 103 36 54.62

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 ° ' ")
	6040.00	0.16	2.23	6039.88	-13.94	14.59	7.30	0.09	498889.19	763064.40	N 32 22 10.10	W 103 36 54.62
	6135.00	0.17	87.70	6134.88	-14.07	14.73	7.45	0.24	498889.33	763064.55	N 32 22 10.10	W 103 36 54.61
	6230.00	3.12	110.98	6229.83	-12.94	13.81	10.00	3.12	498888.41	763067.10	N 32 22 10.09	W 103 36 54.58
	6326.00	6.81	113.70	6325.46	-9.10	10.59	17.66	3.85	498885.19	763074.75	N 32 22 10.06	W 103 36 54.50
	6420.00	9.39	111.08	6418.51	-3.10	5.59	29.92	2.77	498880.19	763087.01	N 32 22 10.01	W 103 36 54.35
	6515.00	10.10	105.39	6512.14	3.14	0.59	45.18	1.26	498875.19	763102.28	N 32 22 9.95	W 103 36 54.18
	6610.00	10.74	100.80	6605.58	8.37	-3.28	61.91	1.10	498871.32	763119.00	N 32 22 9.92	W 103 36 53.98
	6706.00	11.03	97.55	6699.85	12.72	-6.16	79.80	0.71	498868.44	763136.89	N 32 22 9.89	W 103 36 53.77
	6801.00	11.66	94.17	6792.96	16.16	-8.07	98.54	1.12	498866.53	763155.64	N 32 22 9.87	W 103 36 53.55
	6897.00	11.44	90.77	6886.98	18.60	-8.91	117.90	0.84	498865.69	763175.00	N 32 22 9.86	W 103 36 53.33
	6992.00	11.40	90.48	6980.10	20.36	-9.12	136.71	0.07	498865.48	763193.80	N 32 22 9.85	W 103 36 53.11
	7088.00	10.98	82.99	7074.28	20.85	-8.08	155.27	1.57	498866.52	763212.37	N 32 22 9.86	W 103 36 52.89
	7134.00	10.93	81.38	7119.44	20.38	-6.89	163.93	0.67	498867.71	763221.03	N 32 22 9.87	W 103 36 52.79
	7183.00	11.00	77.48	7167.55	19.43	-5.18	173.09	1.52	498869.42	763230.18	N 32 22 9.89	W 103 36 52.68
	7278.00	11.24	71.28	7260.77	15.97	-0.25	190.71	1.28	498874.35	763247.80	N 32 22 9.94	W 103 36 52.48
	7374.00	11.37	65.31	7354.91	10.47	6.71	208.17	1.23	498881.31	763265.26	N 32 22 10.00	W 103 36 52.27
	7469.00	11.22	59.94	7448.07	3.32	15.25	224.67	1.12	498889.85	763281.76	N 32 22 10.09	W 103 36 52.08
	7564.00	11.01	56.48	7541.29	-5.00	24.89	240.24	0.74	498899.49	763297.33	N 32 22 10.18	W 103 36 51.90
	7660.00	10.91	57.78	7635.54	-13.61	34.80	255.56	0.28	498909.40	763312.65	N 32 22 10.28	W 103 36 51.72
	7755.00	10.69	59.69	7728.86	-21.56	44.04	270.78	0.44	498918.63	763327.87	N 32 22 10.37	W 103 36 51.54
	7851.00	10.90	60.98	7823.16	-29.14	52.93	286.40	0.33	498927.53	763343.49	N 32 22 10.46	W 103 36 51.36
	7946.00	10.56	60.20	7916.50	-36.53	61.62	301.81	0.39	498936.21	763358.90	N 32 22 10.54	W 103 36 51.18
	8041.00	9.58	57.22	8010.03	-43.93	70.22	316.01	1.17	498944.82	763373.10	N 32 22 10.63	W 103 36 51.01
	8100.00	8.96	56.45	8068.26	-48.46	75.42	323.97	1.07	498950.02	763381.05	N 32 22 10.68	W 103 36 50.92
	8202.00	8.51	55.32	8169.06	-56.05	84.10	336.79	0.47	498958.70	763393.88	N 32 22 10.76	W 103 36 50.77
	8297.00	8.22	56.40	8263.07	-62.84	91.66	348.23	0.35	498966.46	763405.32	N 32 22 10.84	W 103 36 50.63
	8393.00	8.42	62.48	8358.06	-68.88	98.91	360.18	0.94	498973.50	763417.27	N 32 22 10.91	W 103 36 50.49
	8488.00	8.27	67.85	8452.06	-73.62	104.70	372.68	0.84	498979.29	763429.76	N 32 22 10.96	W 103 36 50.35
	8583.00	8.30	76.30	8546.07	-76.73	108.90	385.67	1.28	498983.49	763442.75	N 32 22 11.00	W 103 36 50.20
	8678.00	8.08	81.84	8640.10	-78.20	111.47	398.94	0.88	498986.07	763456.02	N 32 22 11.03	W 103 36 50.04
	8774.00	8.43	83.69	8735.11	-78.80	113.20	412.61	0.46	498987.80	763469.69	N 32 22 11.04	W 103 36 49.88
	8869.00	7.97	84.91	8829.14	-79.03	114.55	426.09	0.52	498989.15	763483.18	N 32 22 11.06	W 103 36 49.73
	8964.00	8.15	83.67	8923.20	-79.26	115.88	439.34	0.26	498990.47	763496.43	N 32 22 11.07	W 103 36 49.57
	9060.00	7.87	83.50	9018.26	-79.66	117.37	452.64	0.29	498991.97	763509.72	N 32 22 11.08	W 103 36 49.42
	9155.00	7.90	76.88	9112.36	-80.81	119.59	465.46	0.96	498994.19	763522.54	N 32 22 11.10	W 103 36 49.27
	9250.00	8.49	72.65	9206.39	-83.29	123.16	478.51	0.89	498997.76	763535.59	N 32 22 11.14	W 103 36 49.11
	9345.00	8.23	70.93	9300.39	-86.51	127.48	491.63	0.38	499002.07	763548.71	N 32 22 11.18	W 103 36 48.96
	9440.00	7.67	62.24	9394.48	-90.68	132.65	503.67	1.39	499007.25	763560.75	N 32 22 11.23	W 103 36 48.82
	9535.00	6.81	50.18	9488.72	-96.39	139.21	513.60	1.83	499013.81	763570.68	N 32 22 11.30	W 103 36 48.70
	9630.00	6.89	52.42	9583.04	-102.72	146.29	522.45	0.29	499020.89	763579.53	N 32 22 11.36	W 103 36 48.60
	9726.00	6.15	52.49	9678.42	-108.63	152.94	531.09	0.77	499027.53	763588.17	N 32 22 11.43	W 103 36 48.50
	9821.00	4.84	57.96	9772.98	-113.22	158.16	538.52	1.48	499032.75	763595.60	N 32 22 11.48	W 103 36 48.41
	9916.00	4.69	74.78	9867.66	-115.77	161.31	545.67	1.47	499035.90	763602.75	N 32 22 11.51	W 103 36 48.33
	10011.00	6.04	97.04	9962.25	-115.46	161.71	554.38	2.59	499036.31	763611.46	N 32 22 11.51	W 103 36 48.23
	10106.00	7.21	106.94	10056.62	-112.24	159.38	565.04	1.72	499033.96	763622.12	N 32 22 11.49	W 103 36 48.10
	10201.00	7.49	105.90	10150.84	-107.86	155.93	576.70	0.33	499030.52	763633.78	N 32 22 11.46	W 103 36 47.97
	10297.00	8.98	106.05	10246.07	-103.58	152.60	588.32	0.53	499027.20	763645.40	N 32 22 11.42	W 103 36 47.83
	10392.00	8.54	99.86	10340.20	-99.76	149.80	600.82	1.86	499024.39	763657.90	N 32 22 11.39	W 103 36 47.69
	10487.00	7.64	94.09	10434.26	-97.01	148.14	614.07	1.27	499022.74	763671.15	N 32 22 11.38	W 103 36 47.53
	10583.00	7.97	100.42	10529.37	-94.29	146.48	626.98	0.96	499021.08	763684.06	N 32 22 11.36	W 103 36 47.38
100' FNL Crossed	*10661.00*	*7.17*	*115.00*	*10606.70*	*-90.46*	*143.45*	*636.71*	*2.66*	*499018.04*	*763693.79*	*N 32 22 11.33*	*W 103 36 47.27*
	10678.00	7.07	118.55	10623.57	-89.36	142.50	638.60	2.66	499017.09	763695.67	N 32 22 11.32	W 103 36 47.25
	10773.00	6.40	135.88	10717.92	-82.06	135.90	647.42	2.24	499010.50	763704.49	N 32 22 11.25	W 103 36 47.14
	10868.00	8.77	147.47	10812.09	-71.56	125.99	655.00	2.96	499000.59	763712.08	N 32 22 11.15	W 103 36 47.06
	10964.00	8.78	155.00	10908.97	-58.22	113.18	662.03	1.20	498987.78	763719.11	N 32 22 11.03	W 103 36 46.97
	11059.00	8.50	148.62	11000.89	-45.14	100.62	668.75	1.05	498975.21	763725.83	N 32 22 10.90	W 103 36 46.90
	11154.00	8.38	125.97	11094.89	-34.35	90.55	678.01	3.48	498965.15	763735.09	N 32 22 10.80	W 103 36 46.79
	11249.00	8.31	130.75	11188.88	-24.94	82.00	688.82	0.73	498956.60	763745.89	N 32 22 10.72	W 103 36 46.66
	11312.00	8.90	134.63	11251.17	-17.99	75.61	695.73	1.31	498950.21	763752.81	N 32 22 10.65	W 103 36 46.58
KOP Actual	11443.00	5.56	122.75	11381.12	-6.44	65.05	708.29	2.78	498939.65	763765.38	N 32 22 10.55	W 103 36 46.44
	11537.00	12.59	152.87	11473.93	5.82	53.45	716.80	8.79	498928.05	763773.88	N 32 22 10.43	W 103 36 46.34
	11631.00	23.26	160.41	11563.25	33.32	26.77	727.73	11.59	498901.37	763784.80	N 32 22 10.17	W 103 36 46.22
	11726.00	30.79	161.32	11647.82	75.11	-14.00	741.83	7.94	498860.60	763798.90	N 32 22 9.76	W 103 36 46.05
	11820.00	42.81	167.78	11722.68	130.35	-68.22	756.35	13.42	498806.38	763813.43	N 32 22 9.23	W 103 36 45.89
	11914.00	56.23	170.01	11783.86	201.25	-138.24	769.95	14.39	498736.38	763827.03	N 32 22 8.53	W 103 36 45.74
	12009.00	60.77	174.72	11833.51	282.09	-218.48	780.63	6.38	498656.13	763837.70	N 32 22 7.74	W 103 36 45.62
	12103.00	68.31	177.16	11873.89	368.89	-303.07	788.58	8.36	498571.54	763843.65	N 32 22 6.90	W 103 36 45.56
	12198.00	81.86	180.13	11898.29	458.30	-394.62	788.67	14.58	498479.99	763845.74	N 32 22 5.99	W 103 36 45.54
	12292.00	89.73	179.39	11905.18	551.68	-488.29	789.06	8.41	498386.32	763846.13	N 32 22 5.07	W 103 36 45.54
	12309.00	89.82	179.59	11905.28	568.64	-505.29	789.21	1.34	498369.32	763846.28	N 32 22 4.90	W 103 36 45.54
	12419.00	89.90	178.62	11905.74	678.39	-615.28	790.93	0.92	498259.34	763848.00	N 32 22 3.81	W 103 36 45.53
	12520.00	88.24	178.91	11907.38	779.19	-716.24	793.11	1.67	498158.39	763850.18	N 32 22 2.81	W 103 36 45.51
	12615.00	88.28	179.10	11910.26	873.94	-811.18	794.76	0.20	498063.45	763851.83	N 32 22 1.87	W 103 36 45.50
	12710.00	88.42	179.67	11913.00	968.66	-906.13	795.78	0.62	497968.50	763852.85	N 32 22 0.93	W 103 36 45.50
	12804.00	88.18	180.70	11915.79	1062.27	-1000.09	795.47	1.12	497874.55	763852.54	N 32 22 0.00	W 103 36 45.51
	12899.00	88.90	180.93	11918.21	1156.79	-1095.05	794.12	0.80	497779.59	763851.19	N 32 21 59.06	W 103 36 45.53
	12993.00	88.62	180.65	11920.24	1250.33	-1189.02	792.83	0.42	497685.63	763849.90	N 32 21 58.13	W 103 36 45.55
	13088.00	89.52	179.87	11921.78	1344.97	-1284.00	792.56	1.40	497590.64	763849.63	N 32 21 57.19	W 103 36 45.56
	13183.00	89.69	180.45	11922.44	1439.64	-1379.00	792.46	0.84	497495.65	763849.53	N 32 21 56.25	W 103 36 45.57
	13277.00	90.00	181.07	11922.69	1533.21	-1472.99	791.22	0.74	497401.66	763848.29	N 32 21 55.32	W 103 36 45.59
	13372.00	90.79	181.28	11922.04	1627.70	-1567.97	789.27	0.86	497306.69	763846.34	N 32 21 54.38	W 103 36 45.62
	13468.00	90.89	181.57	11920.66	1721.15	-1661.93	786.93	0.33	497212.73	763844.00	N 32 21 53.46	W 103 36 45.66
	13561.00	89.38	181.07	11920.43	1815.62	-1756.90	784.74	1.67	497117.76	763841.81	N 32 21 52.52	W 103 36 45.69
	13655.00	89.79	180.92	11921.12	1909.14	-1850.88	783.11	0.46	497023.78	763840.18	N 32 21 51.59	W 103 36 45.72
	13750.00	89.52	180.77	11921.69	2003.69	-1945.87	781.71	0.33	496928.80	763838.78	N 32 21 50.65	W 103 36 45.74
	13845.00	89.52	180.11	11922.48	2098.30	-2040.86	780.98	0.69	496833.81	763838.05	N 32 21 49.71	W 103 36 45.76
	13939.00	90.07	179.41	11922.82	2192.01	-2134.86	781.37	0.95	496739.82	763838.44	N 32 21 48.78	W 103 36 45.76
	14034.00	90.17	179.21	11922.62	2286.78	-2229.86	782.52	0.24	496644.83	763839.59	N 32 21 47.84	W 103 36 45.75
	14128.00	89.96	179.07	11922.51	2380.56	-2323.84	783.93	0.27	496550.84	763841.00	N 32 21 46.91	W 103 36 45.74
	14317.00	90.17	178.80	11922.30	2569.18	-2512.81	787.44	0.18	496361.88	763844.51	N 32 21 45.04	W 103 36 45.72
	14412.00	89.96	178.95	11922.19	2663.99	-2607.79	789.31	0.27	496266.90	763846.38	N 32 21 44.10	W 103 36 45.70
	14506.00	90.00	178.79	11922.22	2757.80	-2701.77	791.16	0.18	496172.92	763848.23	N 32 21 43.17	W 103 36 45.69
	14601.00	90.27	178.79	11922.00	2852.62	-2796.75	793.17	0.28	496077.95	763850.24	N 32 21 42.23	W 103 36 45.67
	14695.00	90.34	178.52	11921.50	2946.46	-2890.73	795.37	0.30	495983.98	763852.44	N 32 21 41.30	W 103 36 45.66
	14790.00	90.24	179.13	11921.02	3041.27	-2985.70	797.32	0.65	495889.01	763854.39	N 32 21 40.38	W 103 36 45.64
	14885.00	89.93	177.77	11920.88	3136.12	-3080.67	799.89	1.47	495794.05	763856.96	N 32 21 39.42	W 103 36 45.62
	14979.00	90.76	178.79	11920.31	3229.99	-3174.62	802.71	1.40	495700.10	763859.78	N 32 21 38.49	W 103 36 45.59
	15073.00	88.97	178.57	11920.53	3323.82	-3268.59	804.88	1.92	495606.13	763861.95	N 32 21 37.56	W 103 36 45.57
	15168.00	88.63	178.24	11924.18	3418.60	-3363.48	807.52	2.49	495511.24	763864.59	N 32 21 36.62	W 103 36 45.55
	15262.00	91.62	178.58	11925.62	3512.42	-3457.40	810.13	5.32	495417.33	763867.20	N 32 21 35.69	W 103 36 45.53
	15356.00	89.72	179.35	11924.52	3606.21	-3551.37	811.82	2.18	495323.36	763868.89	N 32 21 34.76	W 103 36 45.52
	15451.00	88.31	177.09	11926.15	3701.07	-3646.31	814.77	2.80	495228.43	763871.84	N 32 21 33.82	W 103 36 45.49
	15545.00	88.80	177.99	11928.52	3794.96	-3740.19	818.81	1.09	495134.55	763875.88	N 32 21 32.89	W 103 36 45.45
	15640.00	88.21	178.99	11931.00	3889.78	-3835.12	821.31	1.22	495039.62	763878.38	N 32 21 31.95	W 103 36 45.43
	15733.00	88.39	181.70	11933.76	3982.38	-3928.07	820.75	2.92	494946.67	763877.82	N 32 21 31.03	W 103 36 45.44
	15828.00	91.04	181.77	11934.23	4076.75	-4023.02	817.87	2.79	494851.73	763874.94	N 32 21 30.09	W 103 36 45.48
	15923.00	90.91	182.12	11932.61	4171.09	-4117.95	814.65	0.39	494756.80	763871.72	N 32 21 29.15	W 103 36 45.53
	16017.00	91.29	183.36	11930.81	4264.28	-4211.82	810.16	1.38	494662.93	763867.23	N 32 21 28.22	W 103 36 45.59

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 ° ' ")
	16111.00	91.94	183.01	11928.16	4357.34	-4305.64	604.94	0.79	494569.12	763882.01	N 32 21 27.30	W 103 38 45.66
	16206.00	91.56	182.37	11925.26	4451.50	-4400.49	600.48	0.78	494474.27	763857.55	N 32 21 26.36	W 103 38 45.71
	16300.00	92.01	181.82	11922.33	4544.79	-4494.38	797.04	0.76	494380.38	763854.12	N 32 21 25.43	W 103 38 45.76
	16395.00	92.21	181.75	11918.83	4639.11	-4589.27	794.09	0.22	494285.50	763851.16	N 32 21 24.49	W 103 38 45.80
	16489.00	92.04	180.95	11915.35	4732.52	-4683.18	791.87	0.87	494191.59	763848.95	N 32 21 23.56	W 103 38 45.84
	16584.00	92.01	180.66	11911.99	4827.02	-4778.11	790.54	0.31	494096.67	763847.61	N 32 21 22.62	W 103 38 45.86
	16678.00	92.35	180.66	11908.42	4920.53	-4872.03	789.46	0.36	494002.74	763846.53	N 32 21 21.69	W 103 38 45.88
	16773.00	92.32	179.75	11904.54	5015.10	-4966.95	789.12	0.96	493907.83	763846.19	N 32 21 20.75	W 103 38 45.89
	16867.00	90.70	178.38	11902.07	5108.88	-5060.90	790.65	2.26	493813.88	763847.72	N 32 21 19.82	W 103 38 45.88
	16962.00	90.88	177.89	11900.67	5203.73	-5155.84	793.74	0.59	493718.95	763850.81	N 32 21 18.88	W 103 38 45.85
	17070.00	91.91	176.64	11897.95	5311.63	-5263.68	798.90	1.44	493811.11	763855.97	N 32 21 17.82	W 103 38 45.80
	17245.00	90.32	175.05	11894.55	5486.57	-5438.18	811.57	1.28	493436.62	763868.64	N 32 21 16.09	W 103 38 45.67
	17340.00	89.70	175.20	11894.53	5581.57	-5532.83	819.65	0.67	493341.97	763876.72	N 32 21 15.15	W 103 38 45.58
	17434.00	89.84	176.73	11894.91	5675.56	-5626.60	826.26	1.63	493248.21	763883.33	N 32 21 14.22	W 103 38 45.51
	17529.00	89.81	177.97	11895.20	5770.50	-5721.49	830.65	1.31	493153.32	763887.72	N 32 21 13.28	W 103 38 45.47
	17623.00	89.74	178.72	11895.57	5864.36	-5815.45	833.37	0.80	493059.36	763890.44	N 32 21 12.35	W 103 38 45.44
	17718.00	90.22	180.30	11895.60	5959.10	-5910.45	834.18	1.74	492964.37	763891.25	N 32 21 11.41	W 103 38 45.44
	17813.00	90.18	180.94	11895.27	6053.68	-6005.44	833.15	0.67	492869.38	763890.22	N 32 21 10.47	W 103 38 45.46
	17908.00	90.15	181.46	11894.99	6148.17	-6100.42	831.16	0.55	492774.41	763888.23	N 32 21 9.53	W 103 38 45.49
	18002.00	89.57	181.17	11895.22	6241.65	-6194.39	829.00	0.69	492680.43	763886.07	N 32 21 8.60	W 103 38 45.52
	18097.00	89.02	179.38	11896.39	6336.28	-6289.38	828.55	1.97	492585.45	763885.62	N 32 21 7.67	W 103 38 45.54
	18191.00	88.91	180.80	11898.09	6429.93	-6383.36	828.40	1.51	492491.47	763885.47	N 32 21 6.74	W 103 38 45.54
	18287.00	88.36	180.83	11900.38	6525.45	-6479.32	827.04	0.57	492395.51	763884.11	N 32 21 5.79	W 103 38 45.57
	18381.00	88.26	181.53	11903.15	6618.91	-6573.26	825.10	0.75	492301.58	763882.17	N 32 21 4.86	W 103 38 45.60
	18475.00	89.77	181.43	11904.77	6712.34	-6667.21	822.87	1.61	492207.63	763879.74	N 32 21 3.93	W 103 38 45.63
	18570.00	89.08	180.97	11905.72	6806.83	-6762.19	820.68	0.87	492112.66	763877.75	N 32 21 2.99	W 103 38 45.66
	18664.00	89.60	181.54	11906.80	6900.31	-6856.16	818.63	0.82	492018.69	763875.70	N 32 21 2.06	W 103 38 45.70
	18760.00	90.43	180.92	11906.78	6995.79	-6952.14	816.56	1.08	491922.72	763873.63	N 32 21 1.11	W 103 38 45.73
	18854.00	88.95	180.86	11907.29	7089.33	-7046.12	815.10	1.58	491828.74	763872.17	N 32 21 0.18	W 103 38 45.75
	18949.00	88.98	181.69	11909.00	7183.80	-7141.08	812.99	0.87	491733.78	763870.06	N 32 20 59.24	W 103 38 45.78
	19043.00	88.57	181.87	11911.01	7277.17	-7235.01	810.07	0.48	491639.85	763867.14	N 32 20 58.31	W 103 38 45.83
	19138.00	88.09	182.23	11913.78	7371.46	-7329.91	806.68	0.63	491544.96	763863.75	N 32 20 57.37	W 103 38 45.87
	19232.00	88.22	181.73	11916.81	7464.77	-7423.81	803.43	0.55	491451.07	763860.50	N 32 20 56.44	W 103 38 45.92
	19327.00	86.36	180.68	11921.30	7559.15	-7518.67	801.43	2.25	491356.20	763858.50	N 32 20 55.50	W 103 38 45.95
	19421.00	88.19	179.73	11925.77	7652.69	-7612.56	801.10	2.19	491262.32	763858.17	N 32 20 54.57	W 103 38 45.96
	19515.00	87.54	178.92	11929.27	7746.39	-7706.49	802.20	1.10	491168.39	763859.27	N 32 20 53.64	W 103 38 45.95
	19610.00	88.66	178.65	11932.42	7841.24	-7801.38	805.87	2.66	491073.53	763862.94	N 32 20 52.71	W 103 38 45.92
	19704.00	90.31	177.72	11933.26	7935.18	-7895.24	810.49	2.09	490979.65	763867.56	N 32 20 51.78	W 103 38 45.87
	19799.00	90.14	179.96	11932.89	8029.99	-7990.21	812.41	2.38	490884.68	763869.48	N 32 20 50.84	W 103 38 45.86
	19893.00	90.11	180.71	11932.68	8123.82	-8084.21	811.86	0.80	490790.69	763868.93	N 32 20 49.91	W 103 38 45.87
	19987.00	90.79	180.41	11931.95	8217.22	-8178.20	810.94	0.79	490696.70	763868.01	N 32 20 48.98	W 103 38 45.89
	20177.00	90.04	180.33	11930.57	8406.46	-8368.19	809.72	0.40	490506.72	763866.79	N 32 20 47.10	W 103 38 45.92
	20271.00	90.04	180.28	11930.50	8500.09	-8462.19	809.22	0.05	490412.72	763866.29	N 32 20 46.17	W 103 38 45.93
	20366.00	88.39	179.35	11931.81	8594.78	-8557.17	809.52	1.99	490317.74	763866.59	N 32 20 45.23	W 103 38 45.94
	20460.00	88.90	179.35	11934.03	8688.52	-8651.14	810.59	0.54	490223.78	763867.66	N 32 20 44.30	W 103 38 45.93
	20555.00	87.87	178.10	11938.71	8783.30	-8746.08	812.70	1.70	490128.84	763869.77	N 32 20 43.36	W 103 38 45.91
	20650.00	87.25	178.10	11940.75	8878.10	-8840.94	815.85	0.65	490033.99	763872.92	N 32 20 42.42	W 103 38 45.88
	20744.00	87.49	178.34	11945.06	8971.88	-8934.79	818.77	0.36	489940.13	763875.84	N 32 20 41.49	W 103 38 45.86
	20839.00	88.32	178.68	11948.54	9066.68	-9029.70	821.23	0.94	489845.23	763878.30	N 32 20 40.55	W 103 38 45.84
	20933.00	86.87	178.09	11952.48	9160.44	-9123.57	823.88	1.67	489751.36	763880.95	N 32 20 39.62	W 103 38 45.81
	21027.00	87.70	178.64	11956.93	9254.19	-9217.43	826.56	1.06	489657.51	763883.63	N 32 20 38.69	W 103 38 45.79
	21122.00	88.32	178.10	11960.23	9349.00	-9312.33	829.26	0.87	489562.61	763886.33	N 32 20 37.75	W 103 38 45.76
	21217.00	88.42	178.53	11962.94	9443.83	-9407.25	832.05	0.46	489467.69	763889.12	N 32 20 36.81	W 103 38 45.74
	21311.00	88.59	178.09	11965.39	9537.66	-9501.18	834.82	0.50	489373.77	763891.89	N 32 20 35.88	W 103 38 45.71
	21405.00	88.04	178.63	11968.15	9631.48	-9595.10	837.51	0.82	489279.85	763894.58	N 32 20 34.96	W 103 38 45.69
	21499.00	88.21	178.94	11971.23	9725.26	-9689.03	839.51	0.38	489185.93	763896.57	N 32 20 34.03	W 103 38 45.67
	21593.00	87.94	178.23	11974.39	9819.04	-9782.95	841.83	0.81	489092.01	763898.89	N 32 20 33.10	W 103 38 45.65
	21688.00	88.18	178.54	11977.60	9913.85	-9877.85	844.50	0.41	488997.11	763901.57	N 32 20 32.16	W 103 38 45.63
	21783.00	88.15	178.45	11980.64	10008.65	-9972.77	847.00	0.10	488902.19	763904.06	N 32 20 31.22	W 103 38 45.61
	21877.00	88.28	178.34	11983.57	10102.47	-10066.69	849.63	0.18	488808.28	763906.70	N 32 20 30.29	W 103 38 45.59
100' FSL Crossed	*22024.00*	*88.14*	*178.66*	*11988.16*	*10249.16*	*-10213.57*	*853.47*	*0.24*	*488661.41*	*763910.54*	*N 32 20 28.83*	*W 103 38 45.55*
Final MWD	22060.00	88.11	178.74	11989.34	10285.08	-10249.54	854.29	0.24	488625.44	763911.36	N 32 20 28.48	W 103 38 45.55
Proj to TD	22103.00	88.11	178.74	11990.75	10327.97	-10292.50	855.23	0.00	488582.47	763912.30	N 32 20 28.05	W 103 38 45.54

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	25.000	1/88.425	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD
	1	25.000	25.000	Act Stns	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD
	1	25.000	1022.000	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro +
	1	1022.000	5091.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD
	1	5091.000	5944.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro +
	1	5944.000	10297.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD
	1	10297.000	11312.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro +
	1	11312.000	22103.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Avogato 30-31 State Com 33H Gyro + MWD 0-22103'MD