

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)

RECEIVED

APR 05 2019

Schlumberger

DISTRICT II-ARTESIA O.C.D.

March 7, 2019

Oxy USA Incorporated
5 Greenway Plaza, Suite 110
Houston, TX 77046

Re:

SEC 35, T23S, R31E, Eddy NM
N 32.26787 W -103.74204

CLIENT: Oxy USA Incorporated
WELL: Cal-Mon 35 Federal 175H
FIELD: Wildcat Wolfcamp

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-45524
JOB NO: 19MLD4181

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>
Missael Garcia	Cal-Mon 35 Federal 175H Original Hole	923.00 Ft to 15836.00 Ft	February 16, 2019 to February 28, 2019	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
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Schlumberger

Well Reference:

SEC 35, T23S, R31E, Eddy NM
N 32.26787 W -103.74204

I, Missael Garcia certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 16, 2019 through February 28, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 923.00 feet to a depth of 15836.00 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 Incorporated for the Cal-Mon 35 Federal 175H Well (Original Hole) API No. 30-015-45524 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
Missael Garcia



Subscribed and Sworn to before me this 7th day of March (month) 2019 (yr)

My Commission expires:

2-16-2022

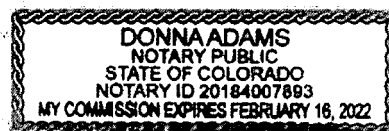
Notary Public

D. Adams

(signature)

(County/State)

Adams County Colorado





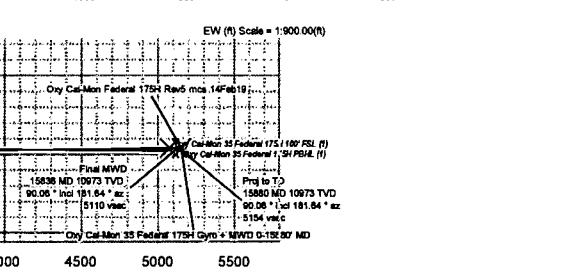
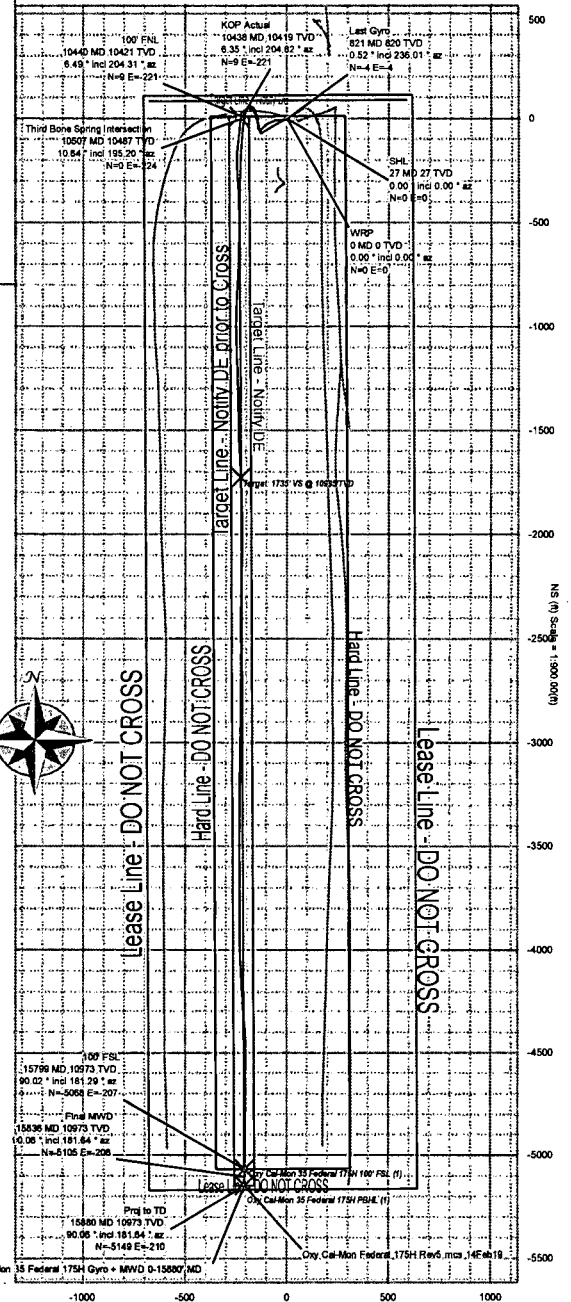
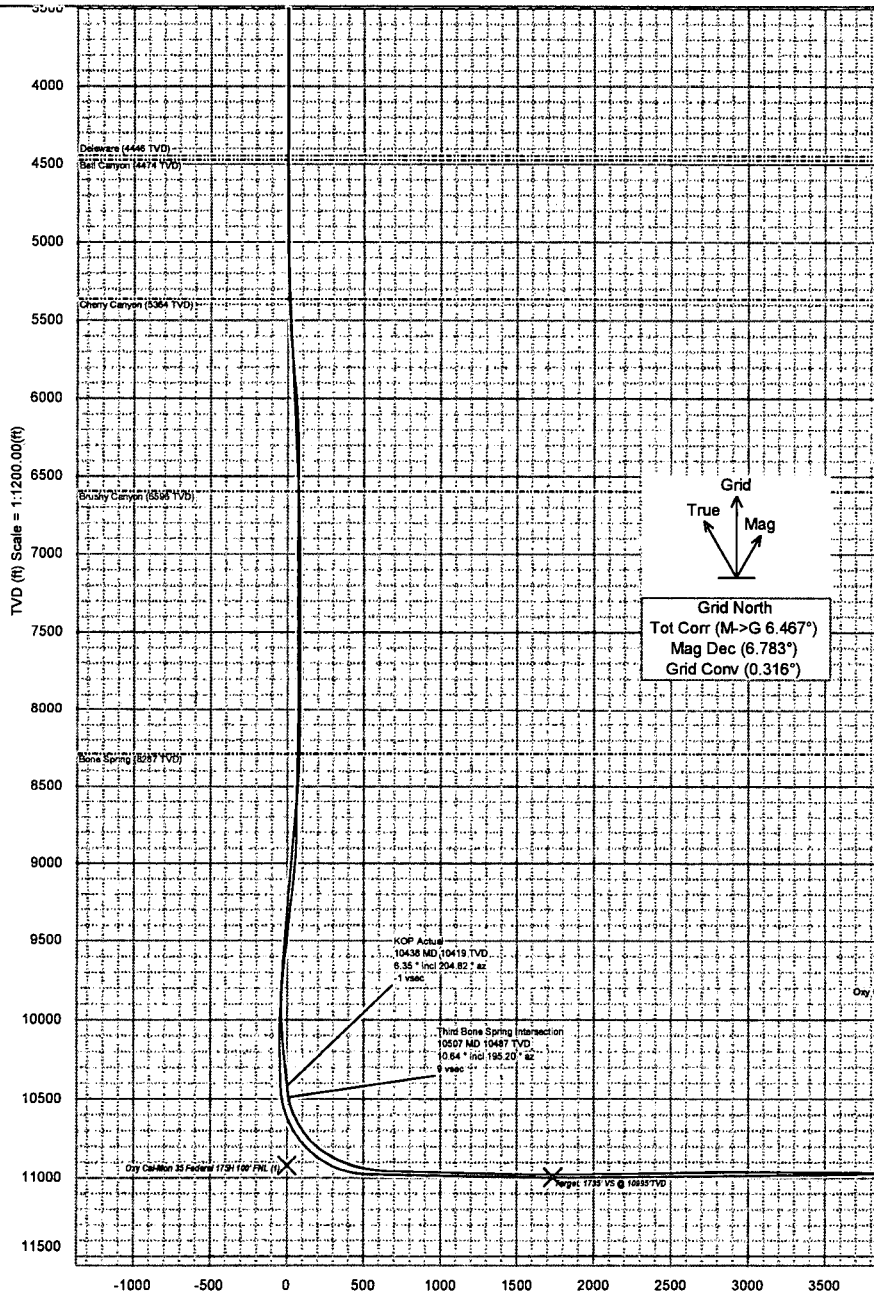
OXY



Borehole:	Well:	Field:	Structure:
Original Hole	Oxy Cal-Mon 35 Federal 175H	NM Eddy County (NAD 83)	Oxy Cal-Mon 35 Federal 175H

Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	59.952°	Date:	13-Feb-2019	Lat:	N 32 16 4.34	Northing:	461688.526US	Grid Conv:	0.3167°	Shot:	Oxy Cal-Mon 35	TVD Ref:	RK(B)(3499ft above MSL)
MagDec:	6.783°	FS:	4806.5nT	Gravity FS:	988.446mgn (9.80665 Based)	Lon:	W 103 44 31.34	Easting:	724098.161US	Scale Fact:	0.99994735	Plan:	Oxy Cal-Mon 35 Federal 175H Gyre + MWD 0-15660° 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	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	820.50	0.52	236.01	820.48	4.04	-3.90	-3.54	0.13
KOP Actual	10438.00	6.35	204.82	10418.91	-0.56	9.47	-220.65	0.50
100' FNL	10440.25	6.49	204.31	10421.15	-0.33	9.24	-220.76	6.55
Third Bone Spring Intersection	10508.85	10.64	195.20	10487.00	9.16	-0.13	-223.92	6.55
100' FSL	15799.00	90.02	181.29	10973.21	5072.85	-5068.41	-207.46	0.94
Final MWD	15836.00	90.06	181.64	10973.19	5109.65	-5105.40	-208.40	0.94
Proj to TD	15880.00	90.06	181.64	10973.14	5153.64	-5149.38	-209.66	0.00



Vertical Section (ft) Azim = 182.31° Scale = 1:1200.00(ft) Origin = 0N/-S, 0E/-W

Oxy Cal-Mon 35 Federal 175H Gyro + MWD 0-15880' MD Survey Geodetic Report

(Def Survey)



Report Date: February 28, 2019 - 04:45 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cal-Mon 35 Federal 175H / Oxy Cal-Mon 35 Federal 175H
 Well: Oxy Cal-Mon 35 Federal 175H
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-45524
 Survey Name: Oxy Cal-Mon 35 Federal 175H Gyro + MWD 0-15880' MD
 Survey Date: January 20, 2019
 Tort / AHD / DDI / ERD Ratio: 201.985' / 5534.958 ft / 6.209 / 0.504
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.34080", W 103° 44' 31.34078"
 Location Grid N/E Y/X: N 461688.520 RUS, E 724098.160 RUS
 CRS Grid Convergence Angle: 0.3157°
 Grid Scale Factor: 0.99994735
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 182.311° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3499.000 ft above MSL
 Seabed / Ground Elevation: 3472.500 ft above MSL
 Magnetic Declination: 6.783°
 Total Gravity Field Strength: 998.4456mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48006.500 nT
 Magnetic Dip Angle: 59.982°
 Declination Date: February 13, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3157°
 Total Corr Mag North->Grid North: 6.4673°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	461688.52	724098.16	N 32° 16' 4.34	W 103° 44' 31.34
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461688.52	724098.16	N 32° 16' 4.34	W 103° 44' 31.34
	112.50	0.82	254.81	112.50	0.14	-0.12	-0.45	0.72	461688.40	724097.71	N 32° 16' 4.34	W 103° 44' 31.35
	175.50	0.84	245.64	175.49	0.40	-0.36	-1.10	0.16	461688.16	724097.06	N 32° 16' 4.34	W 103° 44' 31.35
	260.50	0.51	238.74	260.49	0.82	-0.75	-1.85	0.17	461687.77	724096.31	N 32° 16' 4.33	W 103° 44' 31.36
	354.50	0.51	210.10	354.49	1.42	-1.33	-2.42	0.27	461687.19	724095.74	N 32° 16' 4.33	W 103° 44' 31.37
	447.50	0.48	190.98	447.48	2.18	-2.07	-2.70	0.18	461686.45	724095.46	N 32° 16' 4.32	W 103° 44' 31.37
	540.50	0.30	161.93	540.48	2.79	-2.68	-2.70	0.28	461685.84	724095.46	N 32° 16' 4.31	W 103° 44' 31.37
	634.50	0.22	138.95	634.48	3.20	-3.09	-2.65	0.15	461685.43	724095.51	N 32° 16' 4.31	W 103° 44' 31.37
	727.50	0.40	122.86	727.48	3.58	-3.47	-2.93	0.32	461685.05	724095.23	N 32° 16' 4.31	W 103° 44' 31.38
	820.50	0.52	103.01	820.48	4.04	-3.90	-3.54	0.13	461684.62	724094.62	N 32° 16' 4.30	W 103° 44' 31.38
	923.00	0.13	237.35	922.97	4.38	-4.22	-4.02	0.38	461684.30	724094.14	N 32° 16' 4.30	W 103° 44' 31.39
	1012.00	0.07	102.60	1011.97	4.45	-4.29	-4.05	0.21	461684.23	724094.11	N 32° 16' 4.30	W 103° 44' 31.39
	1104.00	0.01	300.39	1103.97	4.46	-4.30	-4.00	0.09	461684.22	724094.16	N 32° 16' 4.30	W 103° 44' 31.39
	1196.00	0.04	351.45	1195.97	4.42	-4.26	-4.02	0.04	461684.26	724094.03	N 32° 16' 4.30	W 103° 44' 31.39
	1289.00	0.14	283.44	1288.97	4.37	-4.20	-4.13	0.14	461684.32	724094.03	N 32° 16' 4.30	W 103° 44' 31.39
	1473.00	0.03	297.91	1472.97	4.30	-4.13	-4.39	0.06	461684.39	724093.77	N 32° 16' 4.30	W 103° 44' 31.39
	1566.00	0.02	218.47	1565.97	4.30	-4.13	-4.42	0.04	461684.39	724093.74	N 32° 16' 4.30	W 103° 44' 31.39
	1660.00	0.06	240.16	1659.97	4.34	-4.17	-4.48	0.04	461684.35	724093.68	N 32° 16' 4.30	W 103° 44' 31.39
	1754.00	0.12	134.69	1753.97	4.44	-4.26	-4.45	0.16	461684.26	724093.71	N 32° 16' 4.30	W 103° 44' 31.39
	1849.00	0.02	315.00	1848.97	4.49	-4.32	-4.39	0.15	461684.20	724093.77	N 32° 16' 4.30	W 103° 44' 31.39
	1943.00	0.11	298.58	1942.97	4.44	-4.26	-4.48	0.10	461684.26	724093.68	N 32° 16' 4.30	W 103° 44' 31.39
	2132.00	0.04	342.99	2131.97	4.30	-4.11	-4.66	0.05	461684.41	724093.50	N 32° 16' 4.30	W 103° 44' 31.40
	2321.00	0.06	280.27	2320.97	4.22	-4.03	-4.78	0.03	461684.49	724093.38	N 32° 16' 4.30	W 103° 44' 31.40
	2416.00	0.01	131.36	2415.97	4.22	-4.03	-4.82	0.07	461684.49	724093.34	N 32° 16' 4.30	W 103° 44' 31.40
	2510.00	0.14	332.41	2509.97	4.13	-3.93	-4.87	0.16	461684.59	724093.29	N 32° 16' 4.30	W 103° 44' 31.40
	2605.00	0.03	165.92	2604.97	4.05	-3.86	-4.91	0.18	461684.67	724093.25	N 32° 16' 4.30	W 103° 44' 31.40
	2700.00	0.01	6.43	2699.97	4.07	-3.87	-4.91	0.04	461684.65	724093.25	N 32° 16' 4.30	W 103° 44' 31.40
	2795.00	0.01	271.19	2794.97	4.06	-3.86	-4.91	0.02	461684.66	724093.25	N 32° 16' 4.30	W 103° 44' 31.40
	2889.00	0.04	244.25	2888.97	4.07	-3.88	-4.95	0.03	461684.64	724093.21	N 32° 16' 4.30	W 103° 44' 31.40
	3078.00	0.32	136.07	3077.97	4.47	-4.29	-4.65	0.18	461684.23	724093.51	N 32° 16' 4.30	W 103° 44' 31.40
	3172.00	0.41	123.36	3171.97	4.82	-4.66	-4.18	0.13	461683.86	724093.98	N 32° 16' 4.29	W 103° 44' 31.39
	3267.00	0.52	117.54	3266.97	5.18	-5.05	-3.52	0.13	461683.47	724094.64	N 32° 16' 4.29	W 103° 44' 31.38
	3361.00	0.59	124.68	3360.96	5.62	-5.52	-2.74	0.10	461683.00	724095.42	N 32° 16' 4.29	W 103° 44' 31.37
	3455.00	0.65	135.41	3454.96	6.25	-6.17	-1.97	0.14	461682.35	724096.19	N 32° 16' 4.28	W 103° 44' 31.36
	3550.00	0.69	129.71	3549.95	6.96	-6.92	-1.15	0.08	461681.60	724097.01	N 32° 16' 4.27	W 103° 44' 31.35
	3739.00	0.37	105.87	3738.94	7.80	-7.82	0.31	0.20	461680.70	724098.47	N 32° 16' 4.26	W 103° 44' 31.34
	3833.00	0.09	267.53	3832.94	7.87	-7.90	0.53	0.49	461680.62	724098.69	N 32° 16' 4.26	W 103° 44' 31.34
	3928.00	0.04	62.16	3927.94	7.86	-7.89	0.49	0.13	461680.63	724098.65	N 32° 16' 4.26	W 103° 44' 31.34
	4022.00	0.04	84.84	4021.94	7.84	-7.87	0.55	0.02	461680.65	724098.71	N 32° 16' 4.26	W 103° 44' 31.33
	4211.00	0.05	47.38	4210.94	7.78	-7.81	0.67	0.02	461680.71	724098.83	N 32° 16' 4.26	W 103° 44' 31.33
	4306.00	0.43	359.23	4305.94	7.39	-7.43	0.70	0.42	461681.09	724098.86	N 32° 16' 4.27	W 103° 44' 31.33
	4400.00	0.47	348.62	4399.94	6.66	-6.70	0.62	0.10	461681.83	724098.78	N 32° 16' 4.27	W 103° 44' 31.33
	4495.00	0.09	308.77	4494.94	6.24	-6.27	0.48	0.43	461682.25	724098.64	N 32° 16' 4.28	W 103° 44' 31.34
	4590.00	0.03	35.26	4589.94	6.18	-6.20	0.44	0.10	461682.32	724098.60	N 32° 16' 4.28	W 103° 44' 31.34
	4684.00	0.03	264.68	4683.94	6.16	-6.18	0.43	0.06	461682.34	724098.59	N 32° 16' 4.28	W 103° 44' 31.34
	4773.00	1.11	256.11	4777.93	6.42	-6.40	-0.48	1.15	461682.12	724097.68	N 32° 16' 4.28	W 103° 44' 31.35
	4878.00	2.51	264.71	4872.88	6.95	-6.82	-3.44	1.50	461681.71	724094.72	N 32° 16' 4.27	W 103° 44' 31.38
	4967.00	3.84	268.77	4966.73	7.42	-7.07	-8.64	1.43	461681.45	724089.52	N 32° 16' 4.27	W 103° 44' 31.44
	5061.00	5.14	268.86	5060.44	7.86	-7.22	-16.00	1.38	461681.30	724082.16	N 32° 16' 4.27	W 103° 44' 31.53
	5156.00	6.46	266.17	5154.96	8.69	-7.67	-25.58	1.42	461680.85	724072.58	N 32° 16' 4.27	W 103° 44' 31.64
	5250.00	7.01	264.15	5248.31	10.07	-8.60	-36.57	1.64	461679.92	724061.59	N 32° 16' 4.26	W 103° 44' 31.77
	5344.00	6.94	262.39	5341.61	11.86	-9.94	-47.90	0.24	461678.58	724050.26	N 32° 16' 4.25	W 103° 44' 31.90
	5438.00	7.31	253.80	5434.89	14.73	-12.35	-59.28	1.19	461676.17	724038.89	N 32° 16' 4.22	W 103° 44' 32.03
	5532.00	7.42	249.68	5528.11	18.96	-16.12	-70.71	0.59	461672.40	724027.45	N 32° 16' 4.19	W 103° 44' 32.17
	5627.00	7.84	243.69	5622.27	24.42	-21.12	-82.28	0.95	461667.40	724015.89	N 32° 16' 4.14	W 103° 44' 32.30
	5721.00	8.50	238.29	5715.32	31.38	-27.61	-93.93	1.08	461660.91	724004.23	N 32° 16' 4.07	W 103° 44' 32.44
	5815.00	8.74	233.59	5808.26	39.73	-35.50	-105.59	0.79	461653.02	723992.57	N 32° 16' 4.00	W 103° 44' 32.57
	5909.00	7.36	223.51	5901.34	48.73	-44.11	-115.48	2.09	461644.41	723982.68	N 32° 16' 3.91	W 103° 44' 32.69
	6003.00	5.40	218.41	5894.75	56.84	-51.94	-122.38	2.17	461636.58	723975.79	N 32° 16' 3.83	W 103° 44' 32.77
	6098.00	3.59	213.92	6089.45	62.98	-57.91	-126.82	1.94	461630.61	723971.35	N 32° 16' 3.77	W 103° 44' 32.82
	6192.00	2.56	209.75	6183.32	67.35	-62.18	-129.50	1.12	461626.34	723968.67	N 32° 16' 3.73	W 103° 44' 32.85
	6286.00	0.88	189.34	6277.27	69.93	-64.71	-130.66	1.87	461623.61	723967.51	N 32° 16' 3.71	W 103° 44' 32.87
	6381.00	0.02	184.29	6372.27	70.67	-65.45	-130.78	0.91	461623.07	723967.39	N 32° 16' 3.70	W 103° 44' 32.87
	6570.00	0.17	353.40	6561.27	70.43	-65.21	-130.81	0.10	461623.32	723967.36	N 32° 16' 3.70	W 103° 44' 32.87
	6759.00	0.26	296.94	6750.27	69.97	-64.73	-131.23	0.12	461623.79	723966.84	N 32° 16' 3.71	W 103° 44' 32.87
	6853.00	0.26	271.82	6844.27	69.88	-64.63	-131.63	0.12	461623.89	723966.54	N 32° 16' 3.71	W 103° 44' 32.88
	6948.00	0.16	289.53	6939.27	69.85	-64.58	-131.97	0.12	461623.95	723966.20	N 32° 16' 3.71	W 103° 44' 32.88
	7042.00	0.43	325.51	7033.26	69.53	-64.24	-132.29	0.33	461624.28	723965.87	N 32° 16' 3.71	W 103° 44' 32.89
	7136.00	0.43	325.51	7127.26	69.24	-63.94	-132.65	0.41	461624.58	723965.32	N 32° 16' 3.72	W 103° 44' 32.89
	7230.00	0.12	145.53	7219.26	69.40	-64.07	-133.44	0.27	461624.45	723964.72	N 32° 16' 3.71	W 103° 44' 32.90
	7324.00	0.20	129.61	7319.26	69.58	-64.26	-133.26	0.10	461624.26	723964.91	N 32° 16' 3.71	W 1

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8363.00	1.45	336.48	8354.19	65.88	-60.75	-128.53	0.34	461627.78	723969.64	N 32 16 3.75 W	103 44 32.84
	8458.00	1.78	319.76	8449.15	63.71	-58.52	-129.96	0.60	461630.01	723968.21	N 32 16 3.77 W	103 44 32.86
	8552.00	1.91	307.24	8543.10	61.74	-56.46	-132.15	0.45	461632.07	723966.02	N 32 16 3.79 W	103 44 32.88
	8647.00	2.36	293.17	8638.03	60.14	-54.73	-135.21	0.72	461633.80	723962.96	N 32 16 3.81 W	103 44 32.92
	8835.00	0.89	324.08	8825.96	57.61	-52.02	-139.62	0.88	461636.50	723958.55	N 32 16 3.83 W	103 44 32.97
	8929.00	3.05	1.74	8919.90	54.54	-48.93	-139.97	2.56	461639.59	723958.19	N 32 16 3.86 W	103 44 32.97
	9023.00	4.86	1.25	9013.67	48.05	-42.45	-139.81	1.93	461646.07	723958.36	N 32 16 3.93 W	103 44 32.97
	9118.00	6.48	356.81	9108.20	38.69	-33.07	-140.02	1.77	461655.45	723958.15	N 32 16 4.02 W	103 44 32.97
	9212.00	6.68	355.78	9201.58	27.98	-22.33	-140.72	0.25	461666.20	723957.45	N 32 16 4.13 W	103 44 32.98
	9307.00	7.05	352.62	9295.90	16.74	-11.03	-141.88	0.56	461677.49	723956.29	N 32 16 4.24 W	103 44 32.99
	9401.00	5.92	353.18	9389.30	6.27	-0.50	-143.19	1.20	461688.02	723954.98	N 32 16 4.34 W	103 44 33.01
	9495.00	7.04	334.57	9482.71	-3.61	9.52	-146.24	2.52	461698.04	723951.93	N 32 16 4.44 W	103 44 33.04
	9590.00	8.42	325.31	9576.85	-14.32	20.50	-152.70	1.95	461709.01	723945.47	N 32 16 4.55 W	103 44 33.12
	9684.00	8.15	326.35	9669.87	-25.21	31.70	-160.31	0.33	461720.22	723937.86	N 32 16 4.66 W	103 44 33.21
	9779.00	6.92	309.07	9764.05	-34.09	40.92	-168.49	2.70	461729.43	723929.68	N 32 16 4.75 W	103 44 33.30
	9874.00	6.90	284.02	9858.39	-38.67	45.91	-178.47	3.15	461734.42	723919.70	N 32 16 4.80 W	103 44 33.42
	9967.00	6.36	268.00	9950.77	-39.42	47.08	-189.04	2.06	461735.60	723909.13	N 32 16 4.82 W	103 44 33.54
	10063.00	5.72	237.09	10046.26	-36.26	44.29	-198.37	3.41	461732.81	723899.80	N 32 16 4.79 W	103 44 33.65
	10156.00	6.34	217.74	10138.76	-29.40	37.71	-205.40	2.27	461726.23	723892.77	N 32 16 4.73 W	103 44 33.73
	10218.00	6.43	212.11	10200.37	-23.60	32.07	-209.34	1.02	461720.59	723888.83	N 32 16 4.67 W	103 44 33.78
	10344.00	6.82	204.31	10325.54	-10.54	19.27	-216.17	0.78	461707.79	723882.00	N 32 16 4.54 W	103 44 33.86
	10438.00	6.35	204.82	10418.91	-0.56	9.47	-220.65	0.50	461697.99	723877.52	N 32 16 4.45 W	103 44 33.91
	10440.25	6.49	204.31	10421.15	-0.33	9.24	-220.76	6.55	461697.76	723877.41	N 32 16 4.44 W	103 44 33.91
KOP Actual												
100' FNL												
Third Bone												
Spring												
Intersection	10506.85	10.64	195.20	10487.00	9.16	-0.13	-223.92	6.55	461688.39	723874.25	N 32 16 4.35 W	103 44 33.95
	10539.00	12.70	192.95	10518.48	15.53	-6.44	-225.49	6.55	461682.08	723872.68	N 32 16 4.29 W	103 44 33.97
	10634.00	26.53	184.79	10607.77	47.15	-37.92	-229.63	14.81	461650.61	723868.55	N 32 16 3.98 W	103 44 34.02
	10728.00	33.48	186.44	10689.12	94.04	-84.66	-234.29	7.44	461603.87	723863.88	N 32 16 3.52 W	103 44 34.07
	10823.00	44.02	187.47	10763.10	153.21	-143.59	-241.54	11.12	461544.94	723856.63	N 32 16 2.93 W	103 44 34.16
	10917.00	55.20	178.14	10823.98	224.58	-214.86	-245.23	13.66	461473.67	723852.95	N 32 16 2.23 W	103 44 34.21
	11012.00	63.95	175.45	10872.05	306.07	-296.58	-241.25	9.80	461391.95	723856.93	N 32 16 1.42 W	103 44 34.17
	11107.00	70.15	177.59	10909.08	393.06	-383.66	-235.98	6.85	461304.69	723862.20	N 32 16 0.56 W	103 44 34.11
	11201.00	78.66	179.48	10934.33	483.32	-474.28	-233.69	9.26	461214.27	723864.48	N 32 15 59.66 W	103 44 34.09
	11296.00	81.81	180.60	10950.44	576.85	-567.89	-233.76	3.51	461120.66	723864.41	N 32 15 56.73 W	103 44 34.10
	11391.00	89.20	182.21	10967.88	671.48	-662.50	-230.09	7.96	461026.06	723862.08	N 32 15 57.80 W	103 44 34.13
	11482.00	89.03	182.57	10989.29	762.47	-753.41	-238.89	0.44	460935.15	723858.28	N 32 15 56.90 W	103 44 34.18
	11576.00	88.10	183.45	10981.64	856.43	-847.25	-244.82	1.36	460841.32	723853.35	N 32 15 55.97 W	103 44 34.25
	11671.00	88.68	181.25	10964.31	951.39	-942.12	-248.71	2.39	460746.45	723849.46	N 32 15 55.03 W	103 44 34.30
	11765.00	88.72	178.74	10966.47	1046.28	-1037.09	-248.70	2.64	460651.48	723849.47	N 32 15 54.09 W	103 44 34.30
	11860.00	88.99	178.35	10968.35	1140.06	-1131.04	-246.32	0.50	460557.54	723851.85	N 32 15 53.16 W	103 44 34.28
	11955.00	88.75	177.74	10970.22	1234.77	-1225.97	-243.08	0.69	460462.62	723855.09	N 32 15 52.22 W	103 44 34.25
	12049.00	88.79	178.54	10972.24	1328.50	-1319.90	-240.03	0.85	460368.70	723858.15	N 32 15 51.29 W	103 44 34.22
	12144.00	88.79	178.52	10974.25	1423.27	-1414.84	-237.59	0.02	460273.75	723860.58	N 32 15 50.35 W	103 44 34.20
	12239.00	88.55	179.20	10976.45	1518.08	-1509.80	-235.70	0.76	460178.80	723862.47	N 32 15 49.41 W	103 44 34.18
	12334.00	89.44	177.01	10978.12	1612.80	-1604.73	-232.56	2.49	460083.88	723865.61	N 32 15 48.47 W	103 44 34.15
	12428.00	89.82	177.43	10978.72	1706.42	-1698.61	-228.00	0.60	459990.00	723870.17	N 32 15 47.55 W	103 44 34.10
	12523.00	90.99	177.90	10978.05	1801.11	-1793.53	-224.13	1.33	459895.09	723874.04	N 32 15 46.61 W	103 44 34.07
	12712.00	90.71	180.21	10975.25	1989.77	-1982.47	-221.02	1.23	459705.16	723877.16	N 32 15 44.74 W	103 44 34.04
	12807.00	90.54	180.13	10974.21	2084.70	-2077.46	-221.30	0.20	459611.17	723876.88	N 32 15 43.80 W	103 44 34.05
	12901.00	90.99	181.31	10972.96	2178.65	-2171.45	-222.48	1.34	459517.19	723875.69	N 32 15 42.87 W	103 44 34.07
	13091.00	90.68	180.46	10970.19	2368.57	-2361.40	-225.41	0.48	459327.25	723872.76	N 32 15 40.99 W	103 44 34.12
	13280.00	90.95	179.28	10967.50	2557.38	-2550.38	-224.88	0.64	459138.28	723873.19	N 32 15 39.12 W	103 44 34.12
	13469.00	90.92	181.13	10964.42	2746.21	-2739.34	-225.66	0.98	458949.33	723872.51	N 32 15 37.25 W	103 44 34.14
	13655.00	90.82	179.59	10962.96	2842.15	-2835.33	-226.26	1.61	458853.35	723871.91	N 32 15 36.30 W	103 44 34.16
	13849.00	89.51	181.03	10962.69	2936.08	-2929.32	-226.77	2.07	458759.36	723871.04	N 32 15 35.37 W	103 44 34.17
	13944.00	89.68	180.67	10964.03	3126.02	-3119.30	-229.59	0.21	458669.40	723868.58	N 32 15 33.49 W	103 44 34.21
	14132.00	89.65	179.69	10964.59	3220.95	-3214.29	-229.89	1.03	458474.40	723868.28	N 32 15 32.55 W	103 44 34.22
	14322.00	89.78	180.89	10965.52	3408.83	-3402.28	-230.84	0.64	458286.42	723867.33	N 32 15 30.69 W	103 44 34.25
	14516.00	89.89	180.66	10965.79	3503.79	-3497.27	-232.12	0.27	458191.44	723866.05	N 32 15 29.75 W	103 44 34.27
	14710.00	89.78	178.05	10966.07	3598.66	-3592.26	-231.06	2.75	458096.46	723867.12	N 32 15 28.81 W	103 44 34.26
	14904.00	89.78	181.20	10966.43	3692.54	-3686.25	-230.44	3.35	458002.48	723867.73	N 32 15 27.88 W	103 44 34.26
	15098.00	89.27	179.70	10967.01	3782.50	-3776.24	-230.99	2.26	457932.49	723867.18	N 32 15 27.19 W	103 44 34.27
	15292.00	89.99	179.65	10967.78	3881.37	-3875.23	-230.32	0.61	457813.50	723867.86	N 32 15 26.01 W	103 44 34.27
	15486.00	89.68	179.64	10968.05	3976.27	-3970.23	-228.73	0.33	457718.51	723868.45	N 32 15 25.07 W	103 44 34.27
	15680.00	89.81	177.56	10968.64	4071.06	-4065.20	-227.41	2.19	457623.55	723870.77	N 32 15 24.13 W	103 44 34.25
	15874.00	89.48	175.75	10969.39	4165.59	-4160.03	-221.86	1.91	457528.72	723876.31	N 32 15 23.19 W	103 44 34.19
	16068.00	89.51	177.31	10970.22	4259.11	-4253.85	-216.17	1.66	457434.90	723882.00	N 32 15 22.26 W	103 44 34.13
	16262.00	89.99	175.54	10970.64	4353.60	-4348.66	-210.25	1.93	457340.10	723887.92	N 32 15 21.32 W	103 44 34.07
	16456.00	89.41	177.48	10971.13	4448.11	-4443.48	-204.47	2.13	457245.29	723893.70	N 32 15 20.38 W	103 44 34.01
	16650.00	89.68	180.11	10971.88	4541.92	-4537.44	-202.49	2.81	457151.32	723895.68	N 32 15 19.45 W	103 44 33.99
	16844.00	90.03	181.09	10972.36	4730.83	-4726.43	-204.47	0.55	456962.35	723893.70	N 32 15 17.58 W	103 44 34.02
	17038.00	89.65	180.39	10972.62	4825.79	-4821.42	-205.70	0.84	456867.36	723892.47	N 32 15 16.64 W	103 44 34.05
	17232.00	89.85	179.87	10973.04	4920.72	-4916.42	-205.91	0.59	456772.37	723892.26	N 32 15 15.70 W	103 44 34.05
	17426.00	90.02	181.29	10973.21	5015.65	-5010.40	-207.46	0.94	456620.39	723890.72	N 32 15 14.20 W	103 44 34.08
	17620.00	90.06	181.64	10973.19	5109.65	-5105.40	-208.40	0.94	456583.40	723889.77	N 32 15 13.83 W	103 44 34.09
Projection to Bit	15880.00	90.06	181.64	10973.14	5153.64	-5149.38	-209.66	0.00	456539.42	723888.51		