

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

March 26, 2019

Oxy USA Inc.
5 Gateway Plaza, suite 10
Huston TX 77046

Re:

Sec35, T23S, R31E, Eddy NM
32.26743 103.74800

CLIENT: Oxy USA Inc.
WELL: Cal-Mon 35 Federal 172H
FIELD: Wildcat - Wolfcamp

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-45521
JOB NO: 19MLD4257

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>
Juan Estrada FS	Cal-Mon 35 Federal 172H Original Hole	942.00 Ft to 16844.00 Ft	February 5, 2019 to March 20, 2019	SlimPulse Third Party Corrected

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

Dustin Barlow
Field Service Manager

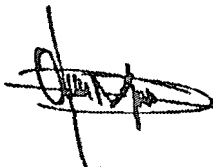
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Well Reference:
Sec35, T23S, R31E, Eddy NM
32.26743 103.74800

I, Juan Estrada certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 05, 2019 through March 20, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 942.00 feet to a depth of 16844.00 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 Cal-Mon 35 Federal 172H Well (Original Hole) API No. 30-015-45521 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
Juan Estrada
FS



Subscribed and Sworn to before me this 26th day of March (month) 2019 (yr)

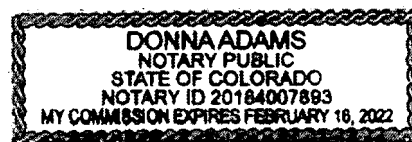
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Schlumberger

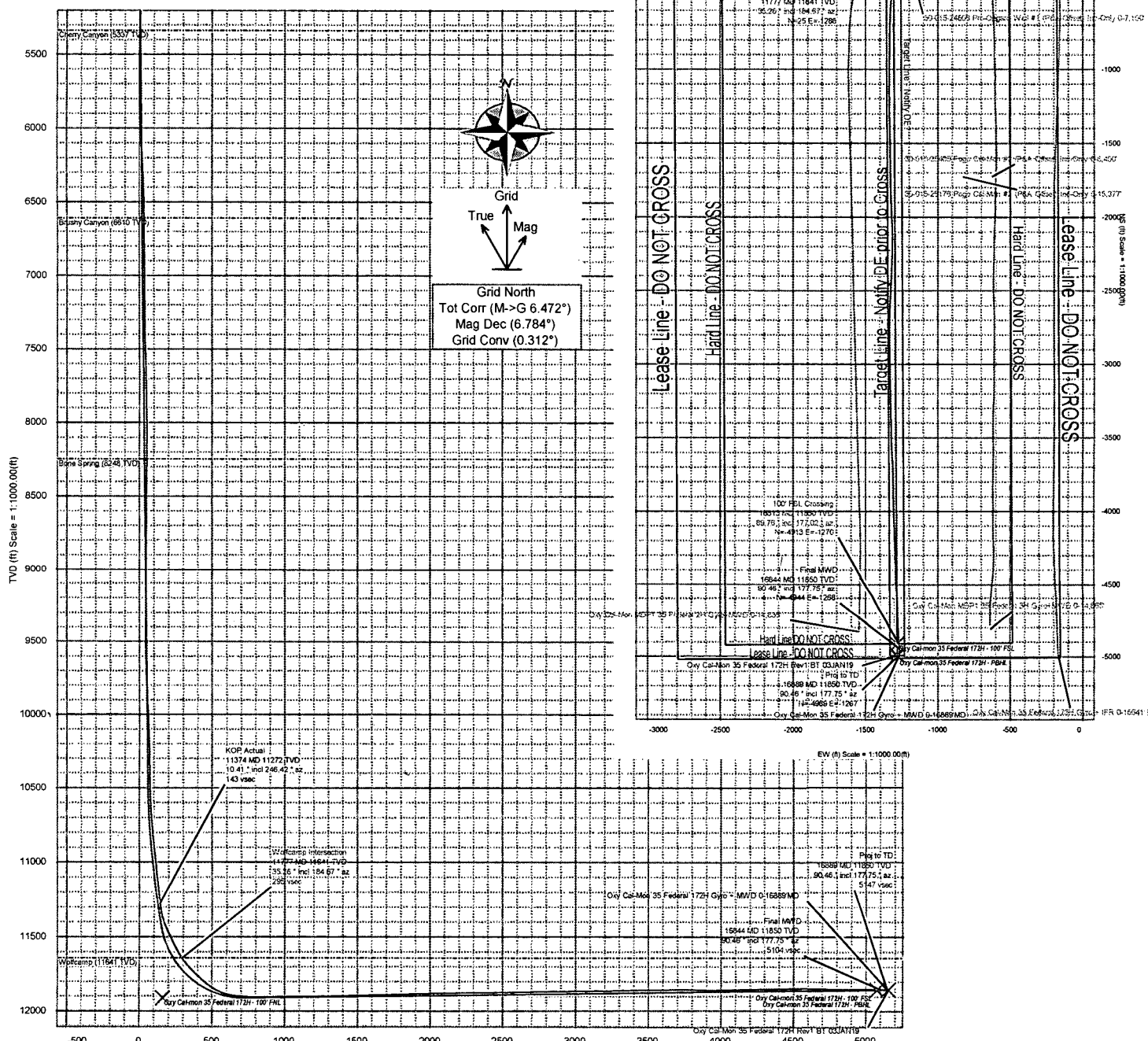
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Cal-Mon 35 Federal 172H	NM Eddy County (NAD 83)	Oxy Cal-Mon 35 Federal 172H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous	
Model: IFR1	Dip: 59.981°	Date: 11-Mar-2018		Lat: N 32 16 2.74	Northing: 461516.18RUS	Grid Conv: 0.3125°		Slot: Oxy Cal-Mon 35 Federal 172H	TVD Ref: RKB(3488.9ft above MSL)
MagDec: 6.784°	FS: 47896.7nT	Gravity FS: 986.446mgm (9.80665 Based)		Lon: W 103 44 52.81	Easting: 722256.06RUS	Scale Fact: 0.99994658		Plan: Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-16889MD	

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	
Last Gyro	816.75	0.67	204.37	816.70	8.07	-8.16	-0.66	0.31
KOP Actual	11374.00	10.41	246.42	11272.50	143.48	170.06	-1239.01	0.34
100' FNL Crossing	11380.00	10.60	243.49	11278.40	144.16	168.61	-1240.00	9.47
Wolfcamp Intersection	11777.31	35.26	184.67	11641.00	295.47	25.20	-1265.93	10.90
100' FSL Crossing	16812.50	89.78	177.02	11850.22	5073.96	-4912.51	-1269.79	3.21
Final MWD	16844.00	90.46	177.75	11850.16	5104.08	-4943.96	-1268.36	3.21
Proj to TD	16889.00	90.46	177.75	11849.79	5147.19	-4989.94	-1266.59	0.00



Vertical Section (V) Azim = 194.40° Scale = 1:1000.00(ft) Origin = 0N/S, 0E/W

Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-16889' MD Survey Geodetic Report

(Def Survey)



Report Date: March 21, 2019 - 06:20 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cal-Mon 35 Federal 172H / Oxy Cal-Mon 35 Federal 172H
 Well: Oxy Cal-Mon 35 Federal 172H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-16889' MD
 Survey Date: January 23, 2019
 Tort / AHD / DDI / ERD Ratio: 221.490° / 6524.105 ft / 6.312 / 0.548
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 2.73540", W 103° 44' 52.80616"
 Location Grid N/E Y/X: N 461516.185 HUS, E 722256.060 HUS
 CRS Grid Convergence Angle: 0.3125°
 Grid Scale Factor: 0.99994658
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 194.404° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3488.900 ft above MSL
 Seabed / Ground Elevation: 3462.400 ft above MSL
 Magnetic Declination: 6.784°
 Total Gravity Field Strength: 998.4459mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47998.700 nT
 Magnetic Dip Angle: 59.981°
 Declination Date: March 11, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3125°
 Total Corr Mag North->Grid North: 6.4715°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	461516.19	722256.06	N 32 16 2.74	W 103 44 52.81
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461516.19	722256.06	N 32 16 2.74	W 103 44 52.81
	74.56	1.02	168.08	74.56	0.38	-0.42	0.09	2.12	461515.77	722256.15	N 32 16 2.73	W 103 44 52.81
	161.81	0.64	171.55	161.80	1.53	-1.66	0.32	0.44	461514.52	722256.38	N 32 16 2.72	W 103 44 52.80
	245.92	0.59	169.96	245.90	2.36	-2.55	0.46	0.06	461513.63	722256.52	N 32 16 2.71	W 103 44 52.80
	340.68	0.60	184.54	340.66	3.29	-3.53	0.51	0.16	461512.66	722256.57	N 32 16 2.70	W 103 44 52.80
	434.99	0.55	191.06	434.96	4.23	-4.46	0.38	0.09	461511.72	722256.44	N 32 16 2.69	W 103 44 52.80
	529.59	0.47	195.42	529.56	5.07	-5.28	0.19	0.09	461510.90	722256.25	N 32 16 2.68	W 103 44 52.80
	624.39	0.52	195.10	624.36	5.89	-6.07	-0.02	0.05	461510.11	722256.04	N 32 16 2.68	W 103 44 52.81
	719.06	0.61	192.56	719.02	6.82	-6.98	-0.24	0.10	461509.21	722255.82	N 32 16 2.67	W 103 44 52.81
	816.75	0.87	204.37	816.70	8.07	-8.16	-0.66	0.31	461508.02	722255.40	N 32 16 2.65	W 103 44 52.81
	942.00	0.97	231.00	941.94	9.86	-9.70	-1.88	0.35	461506.49	722254.18	N 32 16 2.64	W 103 44 52.83
	1036.00	1.12	263.24	1035.92	10.83	-10.30	-3.41	0.64	461505.88	722252.65	N 32 16 2.63	W 103 44 52.85
	1130.00	1.55	290.69	1129.90	11.02	-9.96	-5.51	0.81	461506.22	722250.55	N 32 16 2.64	W 103 44 52.87
	1224.00	2.12	304.93	1223.85	10.27	-8.52	-8.12	0.77	461507.67	722247.94	N 32 16 2.65	W 103 44 52.90
	1318.00	3.08	308.15	1317.75	8.65	-5.96	-11.54	1.03	461510.22	722244.52	N 32 16 2.68	W 103 44 52.94
	1412.00	3.92	315.36	1411.58	5.98	-2.12	-15.78	1.01	461514.07	722240.28	N 32 16 2.72	W 103 44 52.99
	1506.00	4.29	317.59	1505.34	2.40	2.76	-20.41	0.43	461518.95	722235.65	N 32 16 2.76	W 103 44 53.04
	1600.00	4.57	319.10	1599.05	-1.66	8.19	-25.23	0.32	461524.38	722230.83	N 32 16 2.82	W 103 44 53.10
	1789.00	4.20	321.94	1787.50	-10.16	19.33	-34.43	0.23	461535.52	722221.63	N 32 16 2.93	W 103 44 53.21
	1883.00	4.24	322.20	1881.25	-14.39	24.79	-38.68	0.05	461540.97	722217.38	N 32 16 2.98	W 103 44 53.26
	1977.00	4.19	320.48	1974.99	-18.54	30.18	-43.00	0.14	461546.37	722213.07	N 32 16 3.04	W 103 44 53.30
	2072.00	4.29	323.77	2069.73	-22.84	35.73	-47.30	0.28	461551.91	722208.76	N 32 16 3.09	W 103 44 53.35
	2173.00	5.07	319.17	2170.39	-27.78	42.15	-52.45	0.86	461558.33	722203.61	N 32 16 3.16	W 103 44 53.41
	2268.00	5.86	312.89	2264.96	-32.48	48.63	-58.75	1.04	461564.81	722197.31	N 32 16 3.22	W 103 44 53.49
	2362.00	6.78	305.62	2358.39	-36.78	55.12	-66.78	1.30	461571.31	722189.28	N 32 16 3.28	W 103 44 53.58
	2457.00	7.05	302.66	2452.70	-40.64	61.54	-76.25	0.47	461577.72	722179.82	N 32 16 3.35	W 103 44 53.69
	2550.00	6.69	303.96	2545.03	-44.24	67.64	-85.54	0.42	461583.82	722170.52	N 32 16 3.41	W 103 44 53.80
	2644.00	6.24	303.63	2638.44	-47.75	73.53	-94.34	0.48	461589.71	722161.73	N 32 16 3.47	W 103 44 53.90
	2738.00	5.83	300.82	2732.91	-50.82	78.86	-102.78	0.53	461595.04	722153.28	N 32 16 3.52	W 103 44 54.00
	2833.00	5.42	295.45	2826.46	-53.02	83.22	-110.89	0.71	461599.40	722145.18	N 32 16 3.56	W 103 44 54.09
	2928.00	5.32	287.71	2921.04	-54.13	86.48	-119.14	0.77	461602.66	722136.93	N 32 16 3.60	W 103 44 54.19
	3116.00	5.02	251.59	3108.33	-50.17	86.54	-135.25	1.71	461602.72	722120.82	N 32 16 3.60	W 103 44 54.38
	3306.00	5.86	239.49	3297.47	-38.82	78.99	-151.49	0.75	461595.17	722104.58	N 32 16 3.53	W 103 44 54.57
	3401.00	5.58	239.39	3392.00	-32.13	74.17	-159.65	0.29	461590.35	722096.42	N 32 16 3.48	W 103 44 54.66
	3589.00	3.61	238.95	3579.39	-21.45	66.47	-172.58	1.05	461582.65	722083.49	N 32 16 3.40	W 103 44 54.81
	3684.00	2.45	220.59	3674.26	-17.49	63.38	-176.47	1.58	461579.56	722079.60	N 32 16 3.37	W 103 44 54.86
	3778.00	2.37	197.32	3768.17	-13.75	60.00	-178.35	1.04	461576.18	722077.72	N 32 16 3.34	W 103 44 54.88
	3967.00	2.67	194.10	3956.99	-5.44	52.00	-180.59	0.18	461568.18	722075.48	N 32 16 3.26	W 103 44 54.91
	4061.00	2.97	187.07	4050.88	-0.84	47.46	-181.42	0.49	461563.64	722074.65	N 32 16 3.21	W 103 44 54.92
	4251.00	3.10	192.49	4240.61	9.18	37.56	-183.14	0.17	461553.74	722072.93	N 32 16 3.12	W 103 44 54.94
	4346.00	2.40	207.42	4335.50	13.68	33.29	-184.61	1.05	461549.47	722071.46	N 32 16 3.07	W 103 44 54.95
	4440.00	2.09	231.85	4429.43	16.96	30.48	-186.87	1.06	461546.66	722069.21	N 32 16 3.05	W 103 44 54.98
	4534.00	2.26	254.20	4523.37	19.26	28.92	-190.00	0.91	461545.10	722066.07	N 32 16 3.03	W 103 44 55.02
	4629.00	2.92	276.95	4618.27	20.51	28.70	-194.20	1.27	461544.88	722061.87	N 32 16 3.03	W 103 44 55.07
	4818.00	5.00	294.23	4806.82	19.73	32.66	-206.49	1.26	461548.85	722049.58	N 32 16 3.07	W 103 44 55.21
	4912.00	5.42	300.40	4900.43	17.81	36.59	-214.06	0.74	461552.77	722042.02	N 32 16 3.11	W 103 44 55.30
	5101.00	7.49	299.41	5088.22	12.16	47.16	-232.49	1.10	461563.34	722023.58	N 32 16 3.21	W 103 44 55.51
	5291.00	8.89	295.87	5278.28	6.03	59.64	-256.49	0.78	461575.83	721999.59	N 32 16 3.34	W 103 44 55.79
	5395.00	9.19	292.40	5378.99	3.28	66.32	-271.40	0.60	461582.50	721984.68	N 32 16 3.41	W 103 44 55.96
	5583.00	9.36	287.52	5564.53	0.36	76.64	-299.86	0.43	461592.82	721956.22	N 32 16 3.51	W 103 44 56.29
	5678.00	9.48	283.85	5658.25	0.02	80.84	-314.82	0.64	461597.02	721941.26	N 32 16 3.55	W 103 44 56.47
	5868.00	9.42	273.53	5843.71	3.07	85.49	-345.21	0.90	461601.67	721910.87	N 32 16 3.60	W 103 44 56.82
	5961.00	9.42	269.31	5937.43	6.56	85.88	-360.74	0.73	461602.06	721895.34	N 32 16 3.60	W 103 44 57.00
	6056.00	9.52	267.65	6031.14	10.85	85.46	-376.37	0.31	461601.64	721879.72	N 32 16 3.60	W 103 44 57.18
	6151.00	9.48	266.72	6124.84	15.49	84.69	-392.03	0.17	461600.87	721864.06	N 32 16 3.59	W 103 44 57.37
	6339.00	9.77	266.44	6310.19	25.11	82.81	-423.40	0.16	461598.99	721832.68	N 32 16 3.58	W 103 44 57.73
	6528.00	15.51	280.33	6494.57	31.86	86.35	-464.31	3.42	461602.53	721791.77	N 32 16 3.61	W 103 44 58.21
	6623.00	16.03	283.42	6586.00	32.99	91.68	-489.57	1.04	461607.86	721766.52	N 32 16 3.67	W 103 44 58.50
	6717.00	15.12	282.57	6676.55	33.60	97.36	-514.16	1.00	461613.54	721741.93	N 32 16 3.73	W 103 44 58.79
	6811.00	13.91	281.94	6767.54	34.48	102.36	-537.18	1.30	461618.54	721718.91	N 32 16 3.78	W 103 44 59.06
	6933.00	11.89	282.05	6866.51	35.62	107.98	-563.62	1.82	461624.16	721692.48	N 32 16 3.83	W 103 44 59.36
	7001.00	10.81	281.84	6953.20	36.19	110.72	-576.59	1.30	461626.90	721679.50	N 32 16 3.86	W 103 44 59.51
	7096.00	9.57	281.62	7046.70	36.97	114.14	-593.05	1.31	461630.32	721663.04	N 32 16 3.90	W 103 44 59.71
	7190.00	8.09	280.74	7139.58	37.77	116.95	-607.20	1.58	461633.13	721648.89	N 32 16 3.93	W 103 44 59.87
	7285.00	7.36	280.53	7233.72	38.61	119.31	-619.75	0.77	461635.48	721636.34	N 32 16 3.95	W 103 44 59.97
	7402.00	8.37	277.91	7349.62	40.08	121.85	-635.55	0.92	461638.03	721620.54	N 32 16 3.98	W 103 44 60.20
	7490.00	8.56	276.63	7436.66	41.69	123.49	-648.40	0.30	461639.66	721607.69	N 32 16 3.99	W 103 44 60.35
	7586.00	8.82	276.56	7513.76	43.29	124.84	-660.11	0.33	461641.02	721595.99	N 32 16 4.01	W 103 44 60.45
	7706.00	8.85	277.03	7650.13	46.10	127.35	-681.16	0.06	461643.52	721574.94	N 32 16 4.03	W 103 44 60.73
	7757.00	8.64	277.00	7700.53	47.10	128.29	-688.85	0.41	461644.47	721567.25	N 32 16 4.04	W 103 44 60.82
	7909.00	8.64	275.91	7850.81	50.25	130.86	-711.54	0.11	461647.04	721544.56	N 32 16 4.07	W 103 44 61.08
	8041.00	8.76	279.52	7981.29	52.57	133.54	-731.32	0.42	461649.72	721524.78	N 32 16 4.10	W 103 44 61.31
	8135.00											

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 ° ' '')
	8715.00	8.51	286.27	8647.89	50.01	160.76	-826.99	0.41	461676.93	721429.12	N 32 16 4.37 W 103 45	2.43
	8796.00	8.36	287.85	8728.01	49.47	164.24	-838.34	0.34	461680.42	721417.76	N 32 16 4.41 W 103 45	2.56
	8892.00	8.02	287.20	8823.03	48.72	168.36	-851.38	0.37	461684.54	721404.72	N 32 16 4.45 W 103 45	2.71
	9024.00	8.14	287.16	8953.72	47.82	173.84	-869.11	0.09	461690.02	721387.00	N 32 16 4.50 W 103 45	2.92
	9080.00	8.61	286.12	9009.12	47.50	176.17	-876.93	0.88	461692.35	721379.18	N 32 16 4.53 W 103 45	3.01
	9183.00	8.34	286.19	9111.00	47.04	180.40	-891.51	0.26	461696.57	721364.60	N 32 16 4.57 W 103 45	3.18
	9269.00	8.36	286.48	9196.09	46.62	183.91	-903.49	0.05	461700.09	721352.62	N 32 16 4.60 W 103 45	3.32
	9363.00	8.35	289.68	9289.09	45.75	188.15	-916.47	0.49	461704.32	721339.64	N 32 16 4.65 W 103 45	3.47
	9458.00	8.54	291.43	9383.06	44.25	193.05	-929.53	0.34	461709.22	721326.58	N 32 16 4.70 W 103 45	3.62
	9564.00	8.33	280.46	9487.92	43.81	197.32	-944.41	1.53	461713.49	721311.70	N 32 16 4.74 W 103 45	3.79
	9646.00	8.41	273.74	9569.05	45.33	198.79	-956.23	1.20	461714.96	721299.88	N 32 16 4.77 W 103 45	3.93
	9741.00	8.61	273.53	9663.00	47.96	199.68	-970.26	0.21	461715.85	721285.85	N 32 16 4.76 W 103 45	4.09
	9835.00	9.36	269.84	9755.85	51.21	200.09	-984.93	1.01	461716.26	721271.18	N 32 16 4.77 W 103 45	4.26
	9945.00	9.88	268.04	9864.30	56.12	199.74	-1003.31	0.55	461715.92	721252.81	N 32 16 4.77 W 103 45	4.48
	10024.00	9.48	269.48	9942.18	59.70	199.45	-1016.59	0.59	461715.63	721239.53	N 32 16 4.76 W 103 45	4.63
	10119.00	9.51	268.94	10035.88	63.81	199.24	-1032.26	0.10	461715.41	721223.86	N 32 16 4.76 W 103 45	4.82
	10213.00	9.59	270.69	10128.57	67.74	199.19	-1047.85	0.32	461715.36	721208.27	N 32 16 4.76 W 103 45	5.00
	10377.00	8.86	279.94	10290.46	71.96	201.53	-1073.95	1.01	461717.70	721182.17	N 32 16 4.79 W 103 45	5.30
	10509.00	9.87	277.14	10420.70	74.18	204.69	-1095.19	0.84	461720.87	721160.93	N 32 16 4.82 W 103 45	5.55
	10591.00	10.27	276.79	10501.44	76.04	206.43	-1109.42	0.49	461722.60	721148.70	N 32 16 4.84 W 103 45	5.71
	10694.00	10.26	267.95	10602.79	79.86	207.19	-1127.73	1.53	461723.36	721128.40	N 32 16 4.85 W 103 45	5.93
	10780.00	9.97	258.87	10687.46	85.24	205.47	-1142.70	1.89	461721.65	721113.42	N 32 16 4.83 W 103 45	6.10
	10875.00	10.05	252.68	10781.01	93.14	201.42	-1156.68	1.14	461717.59	721091.44	N 32 16 4.79 W 103 45	6.29
	10970.00	9.96	249.11	10874.57	102.25	196.02	-1174.27	0.66	461712.20	721081.85	N 32 16 4.74 W 103 45	6.47
	11076.00	9.45	248.79	10979.05	112.61	189.61	-1190.95	0.48	461705.78	721065.18	N 32 16 4.68 W 103 45	6.66
	11153.00	9.60	248.36	11054.99	120.07	184.95	-1202.81	0.22	461701.13	721053.32	N 32 16 4.63 W 103 45	6.80
	11230.00	10.13	247.96	11130.85	127.87	180.04	-1215.06	0.69	461696.22	721041.07	N 32 16 4.58 W 103 45	6.95
	11307.00	10.50	247.59	11206.61	136.10	174.83	-1227.82	0.49	461691.00	721028.31	N 32 16 4.53 W 103 45	7.09
	11374.00	10.41	246.42	11272.50	143.48	170.08	-1239.01	0.34	461686.25	721017.12	N 32 16 4.48 W 103 45	7.22
KOP Actual	11380.00	10.60	243.49	11278.40	144.18	169.61	-1240.00	9.47	461685.79	721016.13	N 32 16 4.48 W 103 45	7.24
100' FNL	11469.00	15.73	213.25	11365.13	160.99	155.85	-1253.97	9.47	461672.02	721002.16	N 32 16 4.34 W 103 45	7.40
Crossing	11564.00	26.05	196.85	11453.83	194.13	125.00	-1267.12	12.39	461641.18	720989.01	N 32 16 4.04 W 103 45	7.56
	11659.00	26.42	192.77	11539.05	236.10	84.42	-1277.84	1.94	461600.60	720978.29	N 32 16 3.64 W 103 45	7.68
	11753.00	32.63	185.19	11620.84	282.08	38.73	-1284.76	7.70	461554.91	720971.37	N 32 16 3.19 W 103 45	7.77
Wolfcamp	11777.31	35.26	184.67	11641.00	295.47	25.20	-1285.93	10.90	461541.39	720970.20	N 32 16 3.05 W 103 45	7.78
Intersection	11847.00	42.82	183.50	11695.09	338.62	-18.55	-1289.02	10.90	461497.64	720967.11	N 32 16 2.82 W 103 45	7.82
	11942.00	47.48	184.02	11762.07	404.80	-85.74	-1293.45	4.92	461430.45	720962.69	N 32 16 1.96 W 103 45	7.88
	12037.00	53.20	182.69	11822.68	476.54	-158.71	-1297.69	6.12	461357.48	720958.44	N 32 16 1.23 W 103 45	7.93
	12131.00	66.07	182.57	11870.10	555.77	-239.56	-1301.40	13.69	461276.63	720954.73	N 32 16 0.43 W 103 45	7.98
	12226.00	81.11	183.58	11896.86	644.87	-330.30	-1306.30	15.86	461185.90	720949.83	N 32 15 59.54 W 103 45	8.04
	12341.00	88.92	185.06	11906.84	757.58	-444.45	-1314.93	6.91	461071.76	720941.20	N 32 15 58.41 W 103 45	8.15
	12429.00	90.03	184.68	11907.65	844.35	-532.12	-1322.41	1.33	460984.09	720933.73	N 32 15 57.54 W 103 45	8.24
	12524.00	91.33	183.42	11906.52	937.80	-626.88	-1329.11	1.91	460869.34	720927.02	N 32 15 56.60 W 103 45	8.32
	12619.00	90.58	181.74	11904.94	1030.76	-721.76	-1333.39	1.94	460794.46	720922.74	N 32 15 55.67 W 103 45	8.38
	12714.00	90.89	180.01	11903.72	1123.12	-816.74	-1334.84	1.85	460699.49	720921.29	N 32 15 54.73 W 103 45	8.40
	12809.00	91.30	180.72	11901.91	1215.26	-911.72	-1335.45	0.86	460604.52	720920.69	N 32 15 53.79 W 103 45	8.42
	12903.00	90.89	180.23	11900.11	1306.48	-1005.70	-1336.22	0.68	460510.54	720919.91	N 32 15 52.86 W 103 45	8.43
	12998.00	92.02	180.88	11897.70	1398.69	-1100.66	-1337.14	1.37	460415.58	720918.99	N 32 15 51.92 W 103 45	8.45
	13093.00	91.13	179.37	11895.09	1490.71	-1195.62	-1337.35	1.84	460320.63	720918.78	N 32 15 50.98 W 103 45	8.46
	13188.00	91.33	178.68	11893.05	1582.29	-1290.59	-1335.73	0.76	460225.67	720920.40	N 32 15 50.04 W 103 45	8.44
	13282.00	91.09	178.83	11891.06	1672.79	-1384.54	-1333.69	0.30	460131.72	720922.44	N 32 15 49.11 W 103 45	8.43
	13377.00	91.78	179.38	11888.68	1764.39	-1479.50	-1332.21	0.93	460036.77	720923.92	N 32 15 48.17 W 103 45	8.41
	13472.00	91.51	179.15	11885.96	1856.05	-1574.45	-1330.99	0.37	459941.82	720925.14	N 32 15 47.23 W 103 45	8.41
	13567.00	91.30	179.21	11883.63	1947.69	-1669.41	-1329.63	0.23	459846.86	720926.50	N 32 15 46.29 W 103 45	8.40
	13756.00	91.20	178.07	11879.50	2129.54	-1858.31	-1325.15	0.61	459657.98	720930.99	N 32 15 44.42 W 103 45	8.36
	13850.00	91.23	176.77	11877.51	2219.42	-1952.19	-1320.92	1.38	459564.10	720935.22	N 32 15 43.49 W 103 45	8.31
	13944.00	90.63	177.29	11875.98	2309.12	-2046.06	-1316.05	0.84	459470.24	720940.09	N 32 15 42.56 W 103 45	8.26
	14039.00	90.11	180.22	11875.37	2400.58	-2141.02	-1313.98	3.13	459375.28	720942.15	N 32 15 41.62 W 103 45	8.24
	14133.00	90.90	181.04	11874.54	2491.87	-2235.01	-1315.02	1.21	459281.30	720941.12	N 32 15 40.69 W 103 45	8.26
	14227.00	90.83	182.44	11873.12	2583.57	-2328.95	-1317.87	1.49	459187.36	720938.26	N 32 15 39.76 W 103 45	8.30
	14322.00	91.25	182.51	11871.40	2676.51	-2423.85	-1321.97	0.45	459092.47	720934.16	N 32 15 38.82 W 103 45	8.35
	14417.00	91.11	183.37	11869.44	2769.59	-2518.70	-1326.84	0.92	458997.62	720929.29	N 32 15 37.88 W 103 45	8.42
	14512.00	90.83	182.31	11867.83	2862.65	-2613.57	-1331.55	1.15	458902.76	720924.58	N 32 15 36.95 W 103 45	8.48
	14606.00	90.39	181.57	11866.83	2954.43	-2707.51	-1334.73	0.92	458808.82	720921.40	N 32 15 36.02 W 103 45	8.52
	14701.00	90.73	179.00	11865.90	3046.54	-2802.50	-1335.20	2.73	458713.84	720920.93	N 32 15 35.08 W 103 45	8.53
	14796.00	90.59	179.27	11864.81	3138.18	-2897.48	-1333.77	0.32	458618.87	720922.36	N 32 15 34.14 W 103 45	8.52
	14891.00	91.01	178.85	11863.48	3229.79	-2992.46	-1332.21	0.63	458523.89	720923.92	N 32 15 33.20 W 103 45	8.51
	15081.00	91.25	179.08	11859.74	3412.90	-3182.39	-1328.78	0.17	458333.97	720927.35	N 32 15 31.32 W 103 45	8.48
	15176.00	90.56	179.21	11858.24	3504.54	-3277.37	-1327.36	0.74	458239.00	720928.77	N 32 15 30.38 W 103 45	8.47
	15271.00	90.66	178.59	11857.22	3596.07	-3372.34	-1325.54	0.66	458144.03	720930.59	N 32 15 29.44 W 103 45	8.46
	15365.00	90.42	178.23	11856.34	3686.43	-3466.30	-1322.93	0.46	458050.08	720933.20	N 32 15 28.51 W 103 45	8.43
	15460.00	90.22	177.53	11855.81	3777.50	-3561.23	-1319.42	0.77	457955.15	720936.72	N 32 15 27.57 W 103 45	8.40
	15555.00	87.60	176.56	11857.61	3868.15	-3656.08	-1314.52	2.94	457860.31	720941.61	N 32 15 26.63 W 103 45	8.35
	15650.00	91.04	178.46	11858.74	3959.03	-3750.97	-1310.40	4.14	457765.43	720945.74	N 32 15 25.69 W 103 45	8.30
	15744.00	91.25	179.41	11856.86	4049.60	-3844.93	-1308.65	1.03	457671.47	720947.48	N 32 15 24.76 W 103 45	8.29
	15839.00	90.94	178.68	11855.05	4141.19	-3939.90	-1307.07	0.83	457576.50	720949.07	N 32 15 23.82 W 103 45	8.28
	15934.00											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	26.500	816.750	Act Stns	30.000	30.000	NAL_NSG+MSHOT			Original Borehole / Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-	
		1	816.750	11076.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS			Original Borehole / Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-	
		1	11076.000	11230.000	Act Stns	30.000	30.000	SLB_MWD-POOR			Original Borehole / Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-	
		1	11230.000	11659.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG			Original Borehole / Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-	
		1	11659.000	16889.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS			Original Borehole / Oxy Cal-Mon 35 Federal 172H Gyro + MWD 0-	