

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 8, 2019

OXY USA INC.

Re:

35, 23S, 31E, Eddy NM
32.26733 103.74800

CLIENT: OXY USA INC.
WELL: Cal-Mon 35 Federal 174H
FIELD: Wildcat Wolfcamp

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-45523
JOB NO: 19MLD4137

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 FE	Cal-Mon 35 Federal 174H Original Hole	950.00 Ft to 16797.00 Ft	February 16, 2019 to March 3, 2019	SlimPulse Third Party Corrected

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

PSDM
Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
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Schlumberger

Well Reference:
35, 23S, 31E, Eddy NM
32.26733 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 16, 2019 through March 03, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 950.00 feet to a depth of 16797.00 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 174H Well (Original Hole) API No. 30-015-45523 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
FE



Subscribed and Sworn to before me this 8th day of March (month) 2019 (yr)

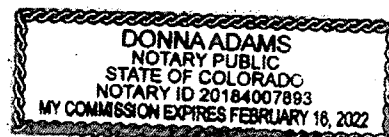
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Schlumberger

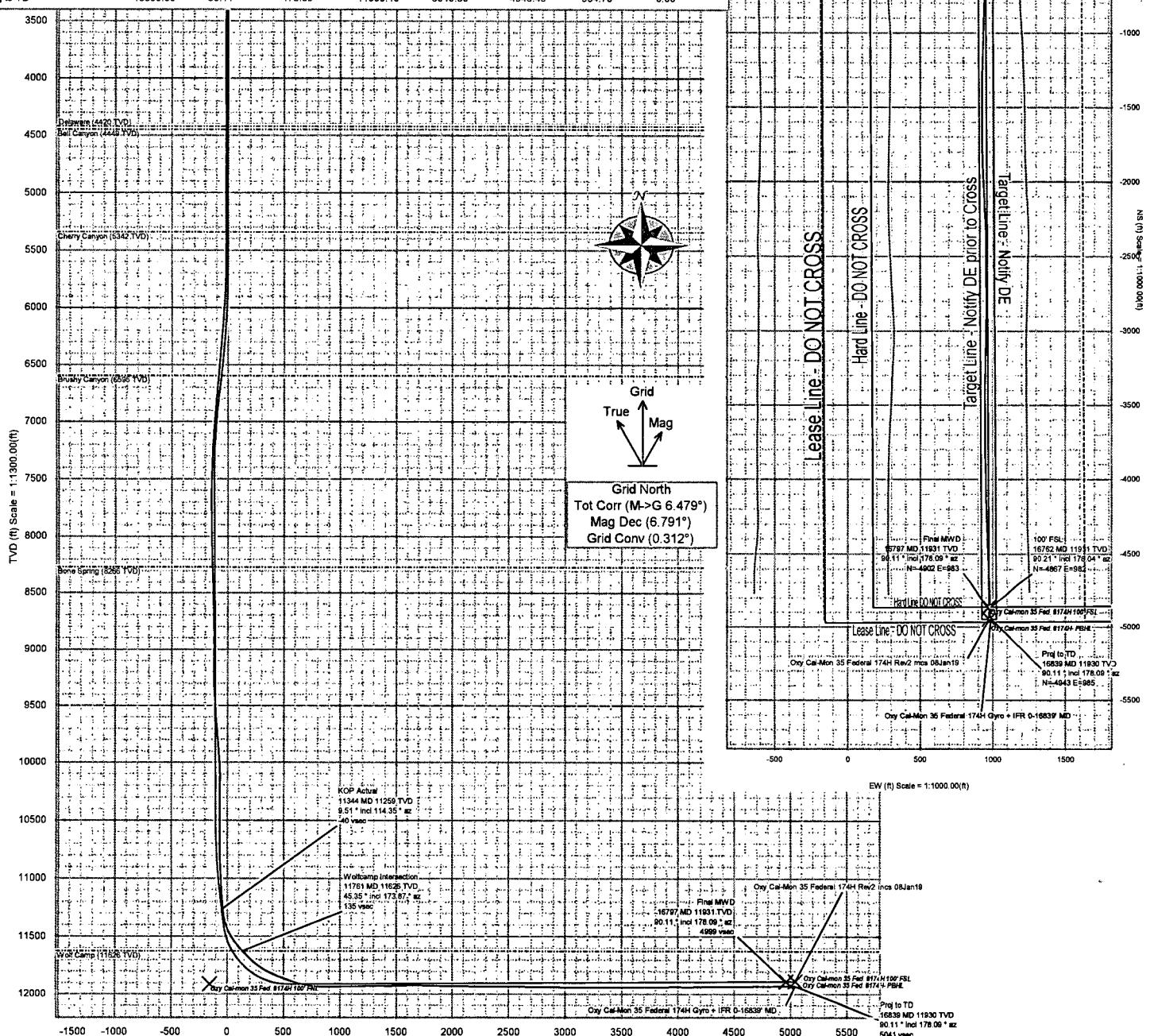
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Cal-Mon 35 Federal 174H	NM Eddy County (NAD 83)	Oxy Cal-Mon 35 Federal 174H

Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	59.883°	Date:	13-Feb-2019	Lat:	N 32 18 2.39	Northing:	461481.19RUS	Grid Conv:	0.3125°	Slot:	Oxy Cal-mon 35 Federal 174H	TVD Ref:	RKB(3490.3ft above MSL)
MagDec:	6.791°	FS:	48006.3nT	Gravity FS:	988.446mgm (8.80665 Based)	Lon:	W 103 44 52.81	Easting:	722254.25RUS	Scale Fact:	0.99994658	Plan:	Oxy Cal-Mon 35 Federal 174H Gyro + IFR 0-16839' 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	0.00
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	848.00	1.22	326.48	847.66	-14.78	14.69	-1.90	0.31
KOP Actual	11344.00	9.51	114.35	11259.43	-39.81	216.76	894.31	0.92
100' FNL	11386.00	9.80	119.34	11300.84	-35.51	213.62	900.59	12.25
Wolfcamp Intersection	11761.35	45.35	173.87	11626.00	134.78	47.03	936.02	7.66
100' FSL	16762.00	90.21	178.04	11930.66	4964.60	-4866.54	982.12	0.33
Final MWD	16797.00	90.11	178.09	11930.56	4999.14	-4901.52	983.30	0.33
Proj to TD	16839.00	90.11	178.09	11930.48	5040.60	-4943.49	984.70	0.00



Vertical Section (ft) Azim = 168.86° Scale = 1:1300.00(ft) Origin = 0N-S, 0E-W

Oxy Cal-Mon 35 Federal 174H Gyro + IFR 0-16839' MD Survey Geodetic Report

(Def Survey)



Report Date: March 04, 2019 - 02:47 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cal-Mon 35 Federal 174H / Oxy Cal-mon 35 Federal 174H
 Well: Oxy Cal-Mon 35 Federal 174H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45523
 Survey Name: Oxy Cal-Mon 35 Federal 174H Gyro + IFR 0-16839' MD
 Survey Date: January 23, 2019
 Tort / AHD / DDI / ERD Ratio: 206.629' / 6172.553 ft / 6.255 / 0.517
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 2.38909", W 103° 44' 52.80617"
 Location Grid N/E Y/X: N 461481.190 ftUS, E 722256.250 ftUS
 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: 168.855° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3490.300 ft above MSL
 Seabed / Ground Elevation: 3463.800 ft above MSL
 Magnetic Declination: 6.791°
 Total Gravity Field Strength: 998.4457mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48006.300 nT
 Magnetic Dip Angle: 59.983°
 Declination Date: February 13, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3125°
 Total Corr Mag North->Grid: 6.4785°
 North: 6.4785°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azlm 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	461481.19	722256.25	N 32 16 2.39	W 103 44 52.81
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461481.19	722256.25	N 32 16 2.39	W 103 44 52.81
	99.80	1.44	6.70	99.79	-0.88	0.91	0.11	1.96	461482.10	722256.36	N 32 16 2.40	W 103 44 52.80
	189.90	1.24	8.58	189.87	-2.87	3.00	0.38	0.23	461484.19	722256.63	N 32 16 2.42	W 103 44 52.80
	277.10	1.14	1.72	277.05	-4.61	4.80	0.55	0.20	461485.99	722256.80	N 32 16 2.44	W 103 44 52.80
	371.80	0.92	349.89	371.73	-6.28	6.49	0.45	0.32	461487.68	722256.70	N 32 16 2.45	W 103 44 52.80
	466.10	0.97	352.36	466.02	-7.84	8.03	0.21	0.07	461489.22	722256.46	N 32 16 2.47	W 103 44 52.80
	560.60	1.01	343.90	560.51	-9.47	9.62	-0.13	0.16	461490.81	722256.12	N 32 16 2.48	W 103 44 52.81
	655.40	1.03	345.38	655.29	-11.15	11.25	-0.58	0.03	461492.44	722255.67	N 32 16 2.50	W 103 44 52.81
	750.20	1.08	341.86	750.08	-12.89	12.92	-1.07	0.09	461494.11	722255.18	N 32 16 2.52	W 103 44 52.82
Last Gyro	848.00	1.22	328.48	847.86	-14.78	14.69	-1.90	0.31	461495.88	722254.35	N 32 16 2.53	W 103 44 52.83
	950.00	0.73	339.42	949.84	-16.44	16.22	-2.70	0.51	461497.41	722253.55	N 32 16 2.55	W 103 44 52.84
	1138.00	0.49	150.44	1137.84	-16.85	16.64	-2.72	0.65	461497.83	722253.53	N 32 16 2.55	W 103 44 52.84
	1326.00	0.60	128.08	1325.83	-15.35	15.34	-1.55	0.13	461496.53	722254.70	N 32 16 2.54	W 103 44 52.82
	1420.00	0.52	90.29	1419.82	-14.89	15.03	-0.74	0.39	461496.22	722255.51	N 32 16 2.54	W 103 44 52.81
	1514.00	0.18	47.17	1513.82	-14.88	15.13	-0.20	0.43	461496.32	722256.05	N 32 16 2.54	W 103 44 52.81
	1701.00	0.04	109.74	1700.82	-15.00	15.31	0.08	0.09	461496.50	722256.33	N 32 16 2.54	W 103 44 52.80
	1796.00	0.04	195.64	1795.82	-14.96	15.26	0.10	0.06	461496.45	722256.35	N 32 16 2.54	W 103 44 52.80
	1890.00	0.13	231.59	1889.82	-14.88	15.17	0.01	0.11	461496.35	722256.26	N 32 16 2.54	W 103 44 52.81
	2079.00	0.07	2.07	2078.82	-14.89	15.15	-0.16	0.10	461496.34	722256.09	N 32 16 2.54	W 103 44 52.81
	2181.00	0.04	31.05	2180.82	-14.98	15.24	-0.14	0.04	461496.43	722256.11	N 32 16 2.54	W 103 44 52.81
	2275.00	0.10	188.68	2274.82	-14.93	15.19	-0.13	0.15	461496.38	722256.12	N 32 16 2.54	W 103 44 52.81
	2464.00	0.07	55.07	2463.82	-14.82	15.09	-0.06	0.08	461496.28	722256.19	N 32 16 2.54	W 103 44 52.81
	2557.00	0.07	0.54	2556.82	-14.90	15.18	-0.02	0.07	461496.37	722256.23	N 32 16 2.54	W 103 44 52.81
	2652.00	0.04	208.04	2651.82	-14.93	15.21	-0.03	0.11	461496.40	722256.22	N 32 16 2.54	W 103 44 52.81
	2746.00	0.07	285.76	2745.82	-14.93	15.20	-0.10	0.08	461496.38	722256.15	N 32 16 2.54	W 103 44 52.81
	2840.00	0.09	333.33	2839.82	-15.03	15.28	-0.19	0.07	461496.47	722256.06	N 32 16 2.54	W 103 44 52.81
	2935.00	0.16	275.77	2934.82	-15.14	15.36	-0.36	0.14	461496.55	722255.89	N 32 16 2.54	W 103 44 52.81
	3029.00	0.03	219.53	3028.82	-15.16	15.35	-0.50	0.15	461496.54	722255.75	N 32 16 2.54	W 103 44 52.81
	3124.00	0.30	359.53	3123.82	-15.39	15.58	-0.52	0.34	461496.77	722255.73	N 32 16 2.54	W 103 44 52.81
	3314.00	0.66	270.58	3313.82	-16.10	16.09	-1.62	0.38	461497.28	722254.63	N 32 16 2.55	W 103 44 52.82
	3408.00	0.48	82.18	3407.81	-16.19	16.15	-1.77	1.21	461497.34	722254.48	N 32 16 2.55	W 103 44 52.83
	3502.00	0.42	173.28	3501.81	-15.82	15.86	-1.34	0.68	461497.05	722254.91	N 32 16 2.55	W 103 44 52.82
	3596.00	0.34	68.13	3595.81	-15.53	15.62	-1.04	0.64	461496.81	722255.21	N 32 16 2.54	W 103 44 52.82
	3691.00	0.08	66.55	3690.81	-15.59	15.75	-0.72	0.27	461496.94	722255.53	N 32 16 2.55	W 103 44 52.81
	3785.00	0.16	201.08	3784.81	-15.50	15.66	-0.70	0.24	461496.85	722255.55	N 32 16 2.54	W 103 44 52.81
	3974.00	0.20	213.76	3973.81	-15.04	15.14	-0.98	0.03	461496.32	722255.27	N 32 16 2.54	W 103 44 52.82
	4069.00	0.14	79.60	4068.81	-14.92	15.02	-0.96	0.33	461496.21	722255.29	N 32 16 2.54	W 103 44 52.82
	4163.00	0.04	255.66	4162.81	-14.92	15.03	-0.88	0.19	461496.22	722255.37	N 32 16 2.54	W 103 44 52.82
	4259.00	0.15	218.07	4258.81	-14.83	14.92	-0.99	0.13	461496.11	722255.26	N 32 16 2.54	W 103 44 52.82
	4447.00	0.13	167.87	4446.81	-14.46	14.52	-1.10	0.06	461495.71	722255.15	N 32 16 2.53	W 103 44 52.82
	4542.00	0.31	47.88	4541.81	-14.48	14.59	-0.88	0.41	461495.78	722255.37	N 32 16 2.53	W 103 44 52.82
	4636.00	0.11	118.89	4635.81	-14.56	14.72	-0.62	0.31	461495.91	722255.63	N 32 16 2.53	W 103 44 52.81
	4731.00	0.04	246.25	4730.81	-14.49	14.66	-0.57	0.15	461495.85	722255.68	N 32 16 2.53	W 103 44 52.81
	4825.00	0.20	51.53	4824.81	-14.56	14.75	-0.47	0.25	461495.94	722255.78	N 32 16 2.54	W 103 44 52.81
	4919.00	0.34	144.49	4918.81	-14.38	14.62	-0.18	0.43	461495.81	722256.07	N 32 16 2.53	W 103 44 52.81
	5108.00	0.09	297.75	5107.81	-13.96	14.24	0.02	0.22	461495.42	722256.27	N 32 16 2.53	W 103 44 52.81
	5204.00	0.15	270.41	5203.81	-14.04	14.27	-0.18	0.08	461495.46	722256.07	N 32 16 2.53	W 103 44 52.81
	5298.00	0.36	284.80	5297.80	-14.19	14.35	-0.58	0.23	461495.54	722255.67	N 32 16 2.53	W 103 44 52.81
	5393.00	0.43	296.55	5392.80	-14.54	14.58	-1.19	0.11	461495.77	722255.06	N 32 16 2.53	W 103 44 52.82
5487.00	0.35	270.67	5486.80	-14.81	14.74	-1.79	0.20	461495.93	722254.46	N 32 16 2.54	W 103 44 52.83	
5581.00	0.46	283.08	5580.80	-15.03	14.83	-2.45	0.15	461496.02	722253.80	N 32 16 2.54	W 103 44 52.83	
5677.00	1.46	42.28	5676.79	-15.91	15.82	-2.00	1.80	461497.01	722254.25	N 32 16 2.55	W 103 44 52.83	
5771.00	3.77	50.20	5770.68	-18.11	18.69	1.18	2.48	461498.88	722257.43	N 32 16 2.57	W 103 44 52.79	
5865.00	6.54	52.04	5864.29	-22.01	23.96	7.78	2.95	461505.15	722264.02	N 32 16 2.63	W 103 44 52.71	
5960.00	9.03	51.66	5958.41	-27.86	31.92	17.89	2.62	461513.10	722274.14	N 32 16 2.70	W 103 44 52.60	
6055.00	10.36	53.11	6052.05	-34.97	41.67	30.57	1.42	461522.86	722286.82	N 32 16 2.80	W 103 44 52.45	
6150.00	10.95	52.95	6145.41	-42.63	52.23	44.60	0.62	461533.42	722300.85	N 32 16 2.90	W 103 44 52.28	
6244.00	10.96	53.20	6237.70	-50.39	62.96	58.88	0.05	461544.15	722315.13	N 32 16 3.01	W 103 44 52.12	
6433.00	11.02	52.31	6423.24	-66.25	84.77	87.56	0.10	461565.96	722343.81	N 32 16 3.22	W 103 44 51.78	
6622.00	10.82	53.14	6608.81	-82.02	106.46	116.05	0.13	461587.64	722372.30	N 32 16 3.44	W 103 44 51.45	
6716.00	10.94	52.65	6701.12	-89.78	117.16	130.20	0.16	461598.34	722386.45	N 32 16 3.54	W 103 44 51.28	
6810.00	10.22	51.85	6793.52	-97.51	127.72	143.85	0.78	461608.91	722400.09	N 32 16 3.65	W 103 44 51.12	
6905.00	10.68	50.13	6886.95	-105.57	138.57	157.24	0.59	461619.75	722413.48	N 32 16 3.75	W 103 44 50.97	
7000.00	10.37	51.17	6980.35	-113.77	149.58	170.65	0.38	461630.76	722426.89	N 32 16 3.86	W 103 44 50.81	
7130.00	10.38	58.15	7108.23	-123.35	163.09	189.72	0.97	461644.27	722445.96	N 32 16 3.99	W 103 44 50.59	
7189.00	10.61	60.34	7166.24	-126.95	168.59	198.95	0.78	461649.77	722455.19	N 32 16 4.05	W 103 44 50.48	
7284.00	10.19	63.16	7259.68	-132.00	176.71	214.05	0.69	461657.89	722470.29	N 32 16 4.13	W 103 44 50.30	
7378.00	10.64	67.88	7352.14	-135.90	183.73	229.51	1.03	461664.81	722485.74	N 32 16 4.19	W 103 44 50.12	
7473.00	10.52	67.61	7445.52	-139.26	190.34	245.65	0.14	461671.52	722501.89	N 32 16 4.26	W 103 44 49.93	
7661.00	10.56	77.18	7630.36	-143.11	200.70	278.32	0.93	461681.88	722534.55	N 32 16 4.36	W 103 44 49.55	
7756.00	10.78	80.83	7723.72	-143.06	204.04	295.58	0.75	461685.22	722551.81	N 32 16 4.39	W 103 44 49.35	
7850.00	10.94	81.53	7816.04	-142.34	206.76	313.08	0.22	461687.94	722569.31	N 32 16 4.42	W 103 44 49.15	
8040.00	10.60	84.36	8002.69	-139.83	211.13	348.30	0.33	461692.31	722604.53	N 32 16 4.46	W 103 44 48.74	
8239.00	10.60	87.51	8198.30	-135.31	213.73	384.80	0.29	461694.80	722641.03	N 32 16 4.48	W 103 44 48.31	
8323.00	10.37											

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 ° ' ")
	8795.00	9.47	84.96	8745.57	-122.39	219.84	482.70	0.73	461701.02	722738.93	N 32 16 4.54 W 103 44 47.17	
	8891.00	9.59	83.66	8840.25	-120.88	221.42	498.52	0.26	461702.60	722754.74	N 32 16 4.55 W 103 44 46.99	
	8985.00	9.73	81.27	8932.91	-119.89	223.49	514.15	0.45	461704.67	722770.37	N 32 16 4.57 W 103 44 46.80	
	9079.00	9.44	74.14	9025.60	-120.19	226.80	529.42	1.30	461707.98	722785.64	N 32 16 4.60 W 103 44 46.63	
	9174.00	9.32	75.51	9119.33	-121.28	230.86	544.36	0.27	461712.03	722800.58	N 32 16 4.64 W 103 44 46.45	
	9266.00	10.01	81.81	9210.03	-121.30	233.86	559.49	1.37	461715.04	722815.71	N 32 16 4.67 W 103 44 46.28	
	9360.00	9.46	89.70	9302.68	-119.43	235.06	575.30	1.53	461716.24	722831.52	N 32 16 4.68 W 103 44 46.09	
	9455.00	10.04	101.29	9396.32	-114.80	233.48	591.23	2.15	461714.66	722847.45	N 32 16 4.67 W 103 44 45.91	
	9549.00	9.51	100.31	9488.95	-108.63	230.49	606.91	0.59	461711.67	722863.12	N 32 16 4.64 W 103 44 45.72	
	9643.00	10.11	98.92	9581.58	-103.16	227.82	622.70	0.69	461709.00	722878.91	N 32 16 4.61 W 103 44 45.54	
	9738.00	9.36	107.45	9675.21	-96.60	224.21	638.30	1.71	461705.39	722894.52	N 32 16 4.57 W 103 44 45.36	
	9832.00	9.72	110.58	9767.91	-88.77	219.13	653.03	0.67	461700.31	722909.24	N 32 16 4.52 W 103 44 45.19	
	9927.00	9.77	108.74	9861.54	-80.54	213.72	668.17	0.33	461694.90	722924.38	N 32 16 4.47 W 103 44 45.01	
	10021.00	9.59	101.90	9954.21	-73.50	209.54	683.87	1.24	461690.72	722939.59	N 32 16 4.43 W 103 44 44.83	
	10115.00	9.61	93.80	10046.90	-65.66	207.41	698.37	1.44	461686.59	722955.08	N 32 16 4.40 W 103 44 44.65	
	10210.00	10.25	83.63	10140.48	-55.72	211.05	715.19	1.96	461689.00	722971.40	N 32 16 4.41 W 103 44 44.46	
	10304.00	9.91	73.50	10233.04	-45.72	215.53	747.00	0.23	461686.70	723003.21	N 32 16 4.48 W 103 44 44.28	
	10399.00	9.94	74.74	10326.61	-37.07	219.60	762.76	0.29	461700.78	723018.97	N 32 16 4.52 W 103 44 43.91	
	10493.00	10.00	76.27	10419.20	-28.02	213.62	778.48	0.21	461704.56	723034.69	N 32 16 4.56 W 103 44 43.73	
	10587.00	9.81	76.67	10511.79	-18.69	223.38	794.27	0.77	461707.69	723050.47	N 32 16 4.59 W 103 44 43.54	
	10682.00	9.71	80.44	10605.42	-8.71	226.51	810.07	0.27	461710.00	723066.28	N 32 16 4.61 W 103 44 43.36	
	10777.00	9.65	82.94	10699.07	-67.92	228.82	825.32	1.12	461711.39	723081.53	N 32 16 4.62 W 103 44 43.18	
	10872.00	8.92	87.28	10792.82	-66.35	230.22	839.51	0.82	461711.57	723096.72	N 32 16 4.62 W 103 44 43.01	
	10966.00	8.46	91.39	10885.75	-63.78	230.39	852.99	0.91	461710.63	723109.19	N 32 16 4.61 W 103 44 42.86	
	11060.00	8.08	96.72	10978.77	-60.25	229.45	866.46	1.36	461708.02	723122.67	N 32 16 4.59 W 103 44 42.70	
	11155.00	8.58	104.97	11072.77	-55.08	226.84	884.31	0.92	461697.94	723150.51	N 32 16 4.49 W 103 44 42.38	
KOP Actual	11344.00	9.51	114.35	11259.43	-39.81	216.76	900.44	1.86	461694.88	723156.64	N 32 16 4.45 W 103 44 42.31	
100' FNL	11385.00	9.74	118.70	11298.85	-35.62	213.70	914.04	12.25	461694.79	723156.79	N 32 16 4.45 W 103 44 42.30	
	11386.00	9.80	119.34	11300.84	-35.51	213.62	914.04	12.25	461677.63	723170.24	N 32 16 4.48 W 103 44 42.15	
	11480.00	18.19	153.99	11392.11	-16.07	196.45	923.25	14.00	461641.63	723179.44	N 32 16 3.93 W 103 44 42.04	
	11574.00	29.05	173.12	11478.23	21.03	160.45	929.31	9.72	461589.38	723185.51	N 32 16 3.41 W 103 44 41.98	
	11669.00	38.28	173.59	11557.21	73.47	108.20						
Wolfcamp Intersection	11761.35	45.35	173.87	11626.00	134.78	47.03	936.02	7.66	461528.22	723192.21	N 32 16 2.80 W 103 44 41.90	
	11764.00	45.55	173.88	11627.86	136.66	45.16	936.22	7.66	461526.34	723192.41	N 32 16 2.79 W 103 44 41.90	
	11858.00	45.51	172.85	11693.71	203.53	-21.47	943.97	0.78	461459.72	723200.16	N 32 16 2.13 W 103 44 41.81	
	11953.00	54.85	175.96	11754.48	276.04	-94.01	950.94	10.15	461387.19	723207.13	N 32 16 1.41 W 103 44 41.74	
	12048.00	65.08	182.94	11802.02	356.66	-176.06	951.47	12.50	461305.14	723207.66	N 32 16 0.60 W 103 44 41.74	
	12141.00	68.48	182.54	11838.68	439.61	-261.42	947.38	3.68	461219.78	723203.58	N 32 15 59.75 W 103 44 41.79	
	12236.00	70.14	179.12	11872.25	526.54	-350.27	946.11	3.79	461130.94	723202.31	N 32 15 58.87 W 103 44 41.81	
	12331.00	74.29	178.48	11901.26	615.62	-440.68	948.01	4.42	461040.53	723204.21	N 32 15 57.98 W 103 44 41.79	
	12426.00	81.02	179.25	11921.56	706.95	-533.42	949.84	7.13	460947.80	723206.04	N 32 15 57.06 W 103 44 41.78	
	12521.00	85.25	182.14	11932.92	799.23	-627.70	948.69	5.38	460853.53	723204.88	N 32 15 56.13 W 103 44 41.80	
	12616.00	90.52	182.03	11936.42	891.62	-722.54	945.23	5.55	460758.69	723201.43	N 32 15 55.19 W 103 44 41.84	
	12682.00	92.37	182.74	11934.76	955.76	-788.45	942.49	3.00	460692.78	723198.69	N 32 15 54.54 W 103 44 41.88	
	12777.00	90.86	180.91	11932.08	1048.29	-883.36	939.47	2.50	460597.88	723195.66	N 32 15 53.60 W 103 44 41.92	
	12872.00	91.03	181.18	11930.51	1141.14	-978.33	937.73	0.34	460502.91	723193.93	N 32 15 52.66 W 103 44 41.95	
	12967.00	90.86	182.10	11928.94	1233.77	-1073.28	935.01	0.98	460407.97	723191.21	N 32 15 51.72 W 103 44 41.99	
	13062.00	90.62	181.51	11927.72	1326.35	-1168.22	932.02	0.67	460313.03	723188.22	N 32 15 50.78 W 103 44 42.03	
	13156.00	90.03	183.13	11927.18	1417.76	-1262.14	928.22	1.83	460219.12	723184.42	N 32 15 49.85 W 103 44 42.08	
	13251.00	90.89	179.67	11926.42	1510.47	-1357.10	925.90	3.75	460124.17	723182.10	N 32 15 48.91 W 103 44 42.11	
	13347.00	91.06	179.33	11924.79	1604.80	-1453.08	926.73	0.40	460028.19	723182.93	N 32 15 47.96 W 103 44 42.11	
	13441.00	89.52	180.01	11924.31	1697.13	-1547.07	927.28	1.79	459934.20	723183.47	N 32 15 47.03 W 103 44 42.11	
	13536.00	89.41	180.89	11925.20	1790.19	-1642.06	926.53	0.93	459839.22	723182.73	N 32 15 46.09 W 103 44 42.12	
	13631.00	88.17	178.51	11927.21	1883.46	-1737.03	927.03	2.82	459744.25	723183.22	N 32 15 45.15 W 103 44 42.12	
	13725.00	89.31	178.43	11929.27	1976.12	-1830.97	929.54	1.22	459650.32	723185.73	N 32 15 44.22 W 103 44 42.10	
	13820.00	89.31	177.37	11930.42	2069.93	-1925.90	933.02	1.12	459555.39	723189.21	N 32 15 43.28 W 103 44 42.06	
	13915.00	88.93	176.96	11931.88	2163.92	-2020.77	937.71	0.59	459460.53	723193.91	N 32 15 42.34 W 103 44 42.01	
	14009.00	90.10	177.39	11932.67	2256.92	-2114.65	942.35	1.33	459366.65	723198.54	N 32 15 41.41 W 103 44 41.97	
	14104.00	89.48	176.91	11933.02	2350.93	-2209.54	947.07	0.83	459271.78	723203.27	N 32 15 40.47 W 103 44 41.92	
	14199.00	89.34	177.15	11934.00	2444.96	-2304.40	951.99	0.29	459176.91	723208.19	N 32 15 39.54 W 103 44 41.87	
	14294.00	89.45	180.72	11935.00	2538.47	-2399.37	953.76	3.76	459081.96	723209.95	N 32 15 38.60 W 103 44 41.85	
	14389.00	89.86	179.65	11935.57	2631.62	-2494.36	953.45	1.21	458986.97	723209.65	N 32 15 37.66 W 103 44 41.86	
	14483.00	89.27	179.78	11936.29	2723.93	-2588.36	953.92	0.64	458892.98	723210.12	N 32 15 36.73 W 103 44 41.86	
	14578.00	89.34	178.50	11937.44	2817.39	-2683.34	955.34	1.35	458798.00	723211.54	N 32 15 35.79 W 103 44 41.85	
	14673.00	88.70	180.06	11939.06	2910.81	-2778.31	956.54	1.77	458703.03	723212.73	N 32 15 34.85 W 103 44 41.84	
	14767.00	89.42	180.20	11940.61	3002.98	-2872.30	956.32	0.78	458609.05	723212.52	N 32 15 33.92 W 103 44 41.85	
	14862.00	90.07	181.49	11941.03	3095.91	-2967.29	954.92	1.52	458514.07	723211.12	N 32 15 32.98 W 103 44 41.87	
	14956.00	89.66	180.46	11941.25	3187.81	-3061.27	953.32	1.18	458420.09	723209.52	N 32 15 32.05 W 103 44 41.90	
	15051.00	90.07	181.96	11941.47	3280.61	-3156.25	951.32	1.64	458325.12	723207.52	N 32 15 31.11 W 103 44 41.93	
	15146.00	89.97	180.39	11941.44	3373.42	-3251.22	949.37	1.66	458230.15	723205.57	N 32 15 30.17 W 103 44 41.96	
	15240.00	90.62	180.40	11940.96	3465.51	-3345.22	948.72	0.69	458136.16	723204.82	N 32 15 29.24 W 103 44 41.97	
	15335.00	90.52	180.39	11940.01	3558.59	-3440.21	948.07	0.11	458041.17	723204.26	N 32 15 28.30 W 103 44 41.98	
	15430.00	90.35	179.73	11939.29	3651.77	-3535.21	947.97	0.72	457946.18	723204.17	N 32 15 27.36 W 103 44 41.99	
	15524.00	90.83	180.53	11938.32	3743.95	-3629.20	947.75	0.99	457852.19	723203.95	N 32 15 26.43 W 103 44 42.00	
	15619.00	89.49	180.24	11938.06	3837.03	-3724.20	947.12	1.44	457757.20	723203.31	N 32 15 25.49 W 103 44 42.01	
	15713.00	90.79	178.51	11937.83	3929.45	-3816.19	948.14	2.30	457663.21	723204.34	N 32 15 24.56 W 103 44 42.01	
	15808.00	89.21	177.92	11937.83	4023.18	-3913.14	951.1					

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	848.000	16839.000	Act Sins	30.000	30.000	NAL_MWD_IFR1+MS		Original Borehole / Oxy Cal-Mon 35 Federal 174H Gyro + IFR 0-		