

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

June 3, 2019

OXY

RECEIVED

JAN 29 2020

EMNRD-OCD ARTESIA

Re:

CLIENT: OXY USA INC
WELL: Height CC 6-7 Federal Com 35H
FIELD: Purple Sage Wolfcamp

RIG: HP 639
COUNTY: EDDY
API NO: 30-015-45563
JOB NO: 19MLH0196

S6, T24S, R29E Eddy NM
32.250427 -104.0186046

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>
Mahmood Al Sabti FE	HEIGHT CC 6-7 Federal Com 35H Original Hole	562.00 Ft to 19640.00 Ft	May 11, 2019 to May 26, 2019	SlimPulse

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

Field Service Manager

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)

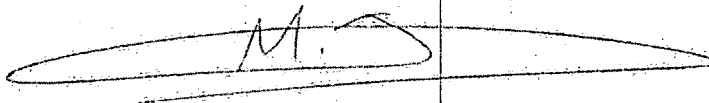
Schlumberger

Well Reference:

S6, T24S, R29E, Eddy NM
32.250427 -104.0186046

I, Mahmood Al Sabti certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 11, 2019 through May 26, 2019, conduct or supervise the taking of the SlimPulse surveys from a depth of 562.00 feet to a depth of 19640.00 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 for the HEIGHT CC 6-7 Federal Com 35H Well (Original Hole) API No. 30-015-45563 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures asset forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

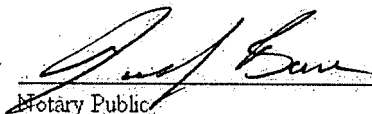
By
Mahmood Al Sabti
FE



Subscribed and Sworn to before me this 10 day of June (month) 2019 (yr).

My Commission expires:

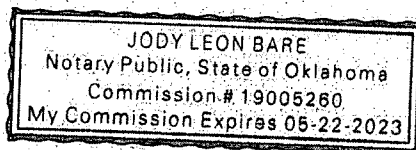
05-22-2023



(signature)

Notary Public

Grady, OK
(County State)



Schlumberger

OXY

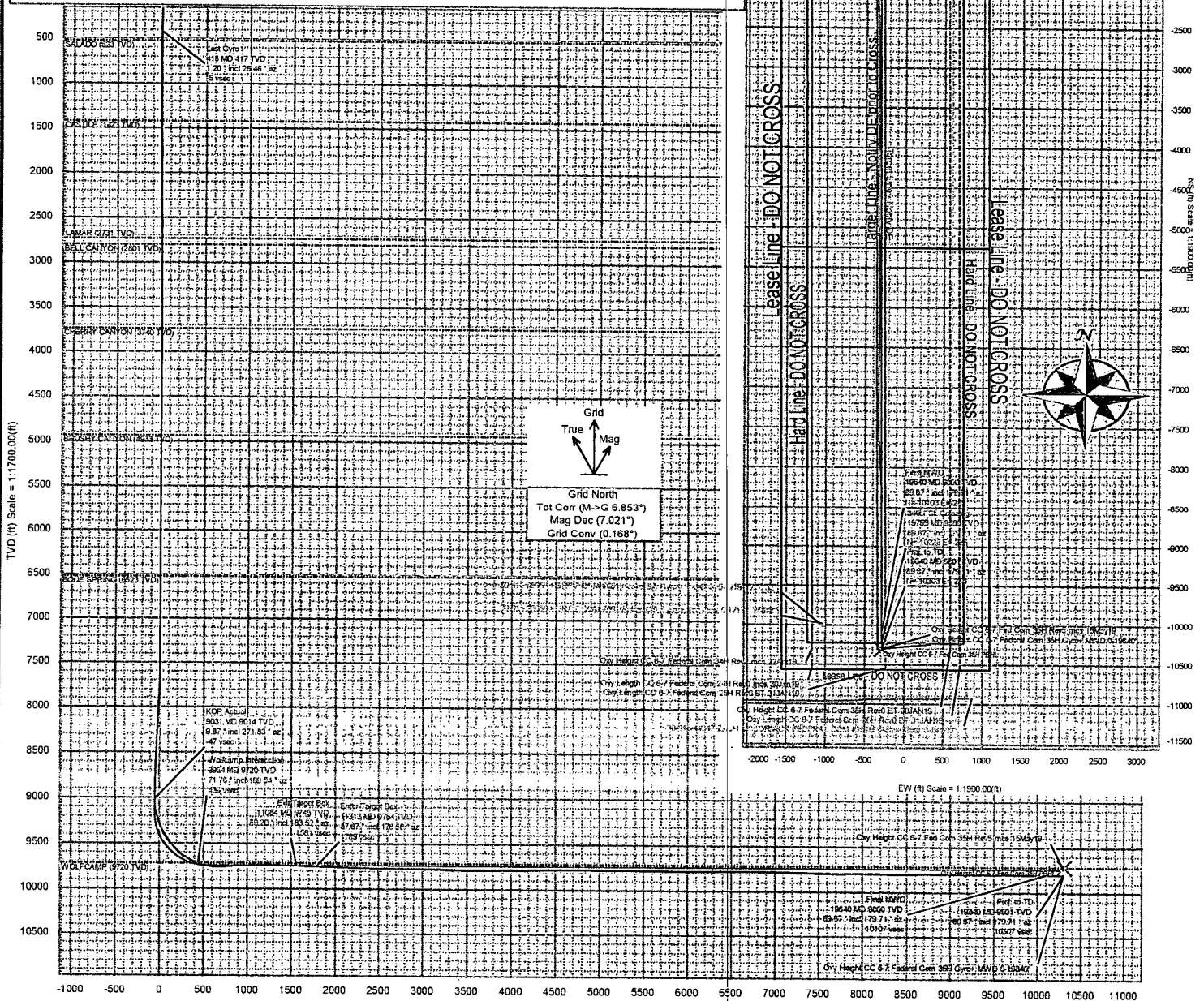


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Height CC 6-7 Fed Com 35H	NM Eddy County (NAD 83)	Oxy Height CC 6-7 Federal Com 35H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone	US Feet	Miscellaneous
Model: IFR1 Dip: 90.019° Date: 09-May-2019	Lat: N 32 15 14.60 Northing: 456290.891US Grid Conv: 0.168"			Oxy Height CC 6-7 Federal Com 35H
MagDec: 7.021° FS: 47923.3nT Gravity FS: 938.471mgal (9.80665 Based)	Lon: W 104 1 8.98 Easting: 638629.931US Scale Fact: 0.9991993			TVD Ref: RKB(26.6 ft above MSL)
				Plan: Oxy Height CC 6-7 Federal Com 35H Gyro: MWD 0.19840"

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)S(°)	E(°)W(°)	DLS
WRP	0.00	0.00	260.00	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	417.50	1.20	26.46	417.45	-5.21	5.18	1.21	0.45
KOP Actual	9031.00	9.87	271.83	9014.26	-46.87	52.70	-209.07	1.38
100' FNL Crossing	9403.00	26.74	189.33	9363.44	40.20	-32.30	-284.88	8.72
Wolfcamp Intersection	9953.89	71.76	189.54	9720.00	438.99	-430.21	-322.01	9.37
Exit Target Box	11084.00	89.20	183.52	9745.47	1560.74	-1550.75	-381.01	5.78
Enter Target Box	11313.00	87.67	176.56	9754.14	1789.32	-1779.45	-379.72	2.56
Final MWD	19640.00	89.87	179.71	9800.20	10106.88	-10102.85	-285.23	0.85
340' FSL Crossing	19765.20	89.87	179.71	9800.48	10232.01	-10228.05	-284.60	0.00
Proj. to TD	19840.00	89.87	179.71	9800.65	10306.77	-10302.85	-284.22	0.00



Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840' Survey

Geodetic Report

(Def Survey)



Report Date: May 28, 2019 - 12:18 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Height CC 6-7 Federal Com 35H / Oxy Height CC 6-7 Federal Com 35H
 Well: Oxy Height CC 6-7 Fed Com 35H
 Borehole: Original Borehole
 UWI / API#: H&P639 / 30-015-45563
 Survey Name: Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
 Survey Date: March 26, 2019
 Tort / AHD / DDI / ERD Ratio: 266.493' / 10663.310 ft / 6.760 / 1.088
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 15' 14.49705", W 104° 1' 6.97544"
 Location Grid N/E Y/X: N 456290.890 RUS, E 638629.930 RUS
 CRS Grid Convergence Angle: 0.1680 °
 Grid Scale Factor: 0.99991993
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 181.593 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 2982.600 ft above MSL
 Seabed / Ground Elevation: 2956.100 ft above MSL
 Magnetic Declination: 7.021 °
 Total Gravity Field Strength: 998.4714mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47923.300 nT
 Magnetic Dip Angle: 60.019 °
 Declination Date: May 09, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1680 °
 Total Corr Mag North->Grid: 6.8530 °
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
WRP	0.00	0.00	260.00	0.00	0.00	0.00	0.00	N/A	456290.89	638629.93	N 32 15 14.50 W 104 1	6.98
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456290.89	638629.93	N 32 15 14.50 W 104 1	6.98
	99.50	0.57	346.29	99.50	-0.35	0.35	-0.09	0.78	456291.24	638629.84	N 32 15 14.50 W 104 1	6.98
	134.50	0.62	350.32	134.50	-0.70	0.71	-0.16	0.19	456291.60	638629.77	N 32 15 14.50 W 104 1	6.98
	189.50	0.65	1.83	189.49	-1.31	1.31	-0.20	0.24	456292.20	638629.73	N 32 15 14.51 W 104 1	6.98
	246.50	0.75	19.18	246.49	-1.99	1.99	-0.07	0.41	456292.88	638629.86	N 32 15 14.52 W 104 1	6.98
	310.50	1.18	22.52	310.48	-3.00	2.99	0.32	0.68	456293.88	638630.25	N 32 15 14.53 W 104 1	6.97
	373.50	1.34	20.03	373.46	-4.31	4.28	0.82	0.27	456295.17	638630.75	N 32 15 14.54 W 104 1	6.97
Last Gyro	417.50	1.20	26.46	417.45	-5.21	5.18	1.21	0.45	456296.07	638631.14	N 32 15 14.55 W 104 1	6.96
	562.00	1.06	39.27	561.93	-7.64	7.57	2.73	0.20	456298.46	638632.66	N 32 15 14.57 W 104 1	6.94
	623.00	1.09	40.08	622.92	-8.54	8.45	3.46	0.06	456299.34	638633.39	N 32 15 14.58 W 104 1	6.94
	684.00	1.07	40.31	683.90	-9.44	9.33	4.20	0.03	456300.22	638634.13	N 32 15 14.59 W 104 1	6.93
	744.00	0.14	75.60	743.90	-9.90	9.77	4.63	1.60	456300.66	638634.56	N 32 15 14.59 W 104 1	6.92
	804.00	0.11	176.48	803.90	-9.86	9.74	4.71	0.32	456300.62	638634.64	N 32 15 14.59 W 104 1	6.92
	895.00	0.15	23.01	894.90	-9.89	9.76	4.76	0.28	456300.65	638634.69	N 32 15 14.59 W 104 1	6.92
	987.00	0.34	338.90	986.90	-10.25	10.12	4.71	0.28	456301.01	638634.64	N 32 15 14.60 W 104 1	6.92
	1078.00	0.35	317.27	1077.90	-10.70	10.58	4.42	0.14	456301.47	638634.35	N 32 15 14.60 W 104 1	6.92
	1170.00	0.21	11.89	1169.90	-11.07	10.95	4.27	0.31	456301.84	638634.20	N 32 15 14.61 W 104 1	6.93
	1261.00	0.38	333.02	1260.90	-11.49	11.38	4.16	0.28	456302.27	638634.09	N 32 15 14.61 W 104 1	6.93
	1352.00	0.78	315.42	1351.89	-12.19	12.09	3.59	0.48	456302.98	638633.52	N 32 15 14.62 W 104 1	6.93
	1444.00	0.70	282.71	1443.88	-12.73	12.66	2.60	0.46	456303.55	638632.53	N 32 15 14.62 W 104 1	6.95
	1535.00	0.72	230.23	1534.88	-12.46	12.42	1.62	0.69	456303.31	638631.55	N 32 15 14.62 W 104 1	6.96
	1719.00	2.06	155.76	1718.83	-8.72	8.66	2.09	1.08	456299.55	638632.02	N 32 15 14.58 W 104 1	6.95
	1814.00	0.12	139.93	1813.81	-7.11	7.03	2.86	2.05	456297.92	638632.79	N 32 15 14.57 W 104 1	6.94
	1908.00	0.17	178.10	1907.81	-6.89	6.82	2.92	0.11	456297.71	638632.85	N 32 15 14.56 W 104 1	6.94
	2002.00	0.11	164.06	2001.81	-6.67	6.59	2.95	0.07	456297.48	638632.88	N 32 15 14.56 W 104 1	6.94
	2097.00	0.08	347.20	2096.81	-6.65	6.57	2.96	0.20	456297.46	638632.89	N 32 15 14.56 W 104 1	6.94
	2192.00	0.07	269.08	2191.81	-6.71	6.63	2.89	0.10	456297.52	638632.82	N 32 15 14.56 W 104 1	6.94
	2286.00	0.32	171.27	2285.81	-6.45	6.37	2.87	0.36	456297.26	638632.80	N 32 15 14.56 W 104 1	6.94
	2381.00	1.46	160.91	2380.79	-5.05	4.96	3.31	1.21	456295.85	638633.24	N 32 15 14.55 W 104 1	6.94
	2476.00	2.03	170.78	2475.75	-2.27	2.16	3.98	0.58	456293.05	638633.91	N 32 15 14.52 W 104 1	6.93
	2570.00	1.63	182.38	2569.70	0.70	-0.82	4.19	0.68	456290.07	638634.12	N 32 15 14.49 W 104 1	6.93
	2655.00	0.10	239.92	2654.69	2.10	-2.21	4.06	1.66	456288.68	638633.99	N 32 15 14.48 W 104 1	6.93
	2759.00	0.12	223.51	2758.69	2.21	-2.32	3.92	0.04	456288.57	638633.85	N 32 15 14.47 W 104 1	6.93
	2854.00	0.11	141.51	2853.69	2.36	-2.47	3.91	0.16	456288.42	638633.84	N 32 15 14.47 W 104 1	6.93
	2949.00	0.11	170.61	2948.69	2.52	-2.63	3.98	0.06	456288.26	638633.91	N 32 15 14.47 W 104 1	6.93
	3043.00	0.11	359.26	3042.69	2.52	-2.63	3.99	0.23	456288.26	638633.92	N 32 15 14.47 W 104 1	6.93
	3137.00	0.08	237.78	3136.69	2.48	-2.59	3.92	0.20	456288.30	638633.85	N 32 15 14.47 W 104 1	6.93
	3236.00	0.08	44.62	3235.69	2.48	-2.59	3.86	0.10	456288.30	638633.79	N 32 15 14.47 W 104 1	6.93
	3516.00	0.10	196.31	3515.69	2.54	-2.65	3.90	0.09	456288.24	638633.83	N 32 15 14.47 W 104 1	6.93
	3610.00	0.11	158.09	3609.69	2.71	-2.82	3.91	0.07	456288.07	638633.84	N 32 15 14.47 W 104 1	6.93
	3705.00	0.14	228.39	3704.69	2.87	-2.98	3.86	0.15	456287.91	638633.79	N 32 15 14.47 W 104 1	6.93
	3895.00	0.11	234.83	3894.69	3.14	-3.24	3.54	0.02	456287.65	638633.47	N 32 15 14.46 W 104 1	6.94
	3989.00	0.12	260.50	3988.69	3.21	-3.31	3.37	0.06	456287.59	638633.30	N 32 15 14.46 W 104 1	6.94
	4178.00	0.10	196.98	4177.69	3.41	-3.50	3.12	0.06	456287.39	638633.05	N 32 15 14.46 W 104 1	6.94
	4367.00	0.11	42.51	4366.69	3.43	-3.52	3.20	0.11	456287.37	638633.13	N 32 15 14.46 W 104 1	6.94
	4556.00	0.11	146.89	4555.69	3.44	-3.54	3.42	0.09	456287.35	638633.35	N 32 15 14.46 W 104 1	6.94
	4651.00	0.10	215.49	4650.69	3.59	-3.68	3.42	0.12	456287.21	638633.35	N 32 15 14.46 W 104 1	6.94
	4745.00	0.11	222.97	4744.69	3.72	-3.81	3.31	0.02	456287.08	638633.24	N 32 15 14.46 W 104 1	6.94
	4840.00	0.11	264.87	4839.69	3.80	-3.89	3.16	0.08	456287.00	638633.09	N 32 15 14.46 W 104 1	6.94
	5029.00	0.11	36.17	5028.69	3.67	-3.76	3.09	0.11	456287.13	638633.02	N 32 15 14.46 W 104 1	6.94
	5218.00	0.11	251.78	5217.69	3.58	-3.67	3.02	0.11	456287.22	638632.95	N 32 15 14.46 W 104 1	6.94
	5312.00	0.11	49.30	5311.69	3.55	-3.64	3.00	0.23	456287.25	638632.93	N 32 15 14.46 W 104 1	6.94
	5407.00	0.11	125.54	5406.69	3.54	-3.63	3.15	0.14	456287.26	638633.08	N 32 15 14.46 W 104 1	6.94
	5596.00	0.11	309.29	5595.69	3.53	-3.62	3.15	0.12	456287.27	638633.08	N 32 15 14.46 W 104 1	6.94
	5691.00	0.11	132.62	5690.68	3.54	-3.63	3.15	0.23	456287.26	638633.08	N 32 15 14.46 W 104 1	6.94
	5880.00	0.11	214.21	5879.68	3.81	-3.90	3.18	0.08	456286.99	638633.11	N 32 15 14.46 W 104 1	6.94
	5974.00	0.11	108.80	5973.68	3.91	-4.00	3.22	0.19	456286.89	638633.15	N 32 15 14.46 W 104 1	6.94
	6069.00	0.11	33.64	6068.68	3.86	-3.96	3.35	0.14	456286.93	638633.28	N 32 15 14.46 W 104 1	6.94
	6164.00	0.11	10.42	6163.68	3.69	-3.79	3.42	0.05	456287.10	638633.35	N 32 15 14.46 W 104 1	6.94
	6258.00	0.12	214.98	6257.68	3.69	-3.78	3.38	0.24	456287.11	638633.31	N 32 15 14.46 W 104 1	6.94
	6353.00	0.11	191.68	6352.68	3.86	-3.95	3.30	0.05	456286.94	638633.23	N 32 15 14.46 W 104 1	6.94
	6542.00	0.12	330.47	6541.68	3.87	-3.96	3.17	0.11	456286.93	638633.10	N 32 15 14.46 W 104 1	6.94
	6637.00	0.11	23.50	6636.68	3.70	-3.79	3.16	0.11	456287.10	638633.09	N 32 15 14.46 W 104 1	6.94
	6732.00	0.12	165.78	6731.68	3.71	-3.80	3.22	0.23	456287.09	638633.15	N 32 15 14.46 W 104 1	6.94
	6826.00	0.12	47.21	6825.68	3.74	-3.83	3.31	0.22	456287.06	638633.24	N 32 15 14.46 W 104 1	6.94
	7015.00	0.11	218.36	7014.68	3.74	-3.84	3.35	0.12	456287.05	638633.28	N 32 15 14.46 W 104 1	6.94
	7110.00	0.18	90.84	7109.68	3.81	-3.91	3.44	0.28	456286.98	638633.37	N 32 15 14.46 W 104 1	6.94
	7204.00	0.04	66.71	7203.68	3.80	-3.90	3.62	0.15	456286.99	638633.55	N 32 15 14.46 W 104 1	6.93
	7298.00	0.19	193.34	7297.68	3.94	-4.04	3.61	0.23	456286.85	638633.54	N 32 15 14.46 W 104 1	6.93
	7393.00	1.31	277.40	7392.67	3.98	-4.05	2.50	1.37	456286.84	638632.43	N 32 15 14.46 W 104 1	6.95
	7488.00	2.42	269.43	7487.62	3.95	-3.93	-0.58	1.20	456286.96	638629.35	N 32 15 14.46 W 104 1	6.98
	7582.00	3.93	275.67	7581.48	3.79	-3.63	-5.77	1.65	456287.26	638624.16	N 32 15 14.46 W 104 1	7.04
	7676.00	5.47	289.61	7675.16	2.18	-1.81	-13.20	2.03	456289.08	638616.73	N 32 15 14.49 W 104 1	7.13
	7771.00	6.90	293.64	7769.61	-1.36	2.00	-22.69	1.57	456292.89	638607.24	N 32 15 14.52 W 104 1	7.24

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 ° ' ")
	8143.00	7.47	294.57	8144.39	-18.45	20.35	-68.21	1.12	456311.24	638561.72	N 32 15 14.70 W 104	1 7.77
	8243.00	7.87	291.25	8237.55	-23.00	25.23	-79.77	0.63	456316.11	638550.17	N 32 15 14.75 W 104	1 7.90
	8338.00	8.73	288.38	8331.56	-27.27	29.86	-92.67	1.00	456320.74	638523.15	N 32 15 14.80 W 104	1 8.05
	8432.00	9.39	286.71	8424.38	-31.33	34.31	-106.79	0.76	456325.20	638507.59	N 32 15 14.85 W 104	1 8.22
	8526.00	10.47	285.86	8516.98	-35.43	38.85	-122.35	1.16	456329.74	638491.14	N 32 15 14.90 W 104	1 8.40
	8621.00	10.05	280.28	8610.46	-38.81	42.69	-138.81	1.14	456333.58	638475.73	N 32 15 14.95 W 104	1 8.59
	8810.00	9.95	277.75	8796.59	-43.06	47.83	-171.21	0.24	456338.72	638458.73	N 32 15 15.00 W 104	1 8.97
	8905.00	9.96	280.05	8890.16	-45.14	50.37	-187.43	0.42	456341.26	638442.51	N 32 15 15.05 W 104	1 9.16
	8999.00	9.98	274.31	8982.74	-46.73	52.40	-203.56	1.06	456343.29	638426.39	N 32 15 15.10 W 104	1 9.35
	9031.00	9.87	271.83	9014.26	-46.87	52.70	-209.07	1.38	456345.59	638420.88	N 32 15 15.15 W 104	1 9.41
	9096.00	11.39	262.14	9078.15	-45.84	52.00	-220.99	3.60	456342.89	638408.95	N 32 15 15.20 W 104	1 9.55
	9190.00	21.34	230.98	9168.39	-33.13	39.91	-243.57	13.77	456330.80	638386.38	N 32 15 14.90 W 104	1 9.81
	9285.00	24.28	215.53	9256.03	-5.64	13.10	-268.38	7.00	456303.99	638381.57	N 32 15 14.63 W 104	1 10.10
	9379.00	24.68	190.18	9341.81	29.90	-22.04	-283.12	11.11	456258.85	638346.83	N 32 15 14.29 W 104	1 10.27
100' FNL Crossing	9403.00	26.74	189.33	9363.44	40.20	-32.30	-284.88	8.72	456258.59	638345.07	N 32 15 14.19 W 104	1 10.29
	9474.00	32.86	187.41	9425.02	75.23	-87.19	-289.96	8.72	456223.70	638339.99	N 32 15 13.84 W 104	1 10.36
	9568.00	40.30	182.86	9500.46	131.08	-122.93	-294.78	8.42	456167.97	638335.18	N 32 15 13.29 W 104	1 10.41
	9663.00	41.34	182.24	9572.36	193.17	-184.97	-297.54	1.17	456105.93	638332.42	N 32 15 12.68 W 104	1 10.45
	9758.00	55.33	183.17	9635.35	263.95	-255.68	-300.94	14.74	456035.23	638329.02	N 32 15 11.98 W 104	1 10.49
	9853.00	64.79	186.70	9682.73	346.01	-337.57	-308.13	10.46	455953.34	638321.82	N 32 15 11.17 W 104	1 10.58
	9947.00	71.35	190.07	9717.82	432.53	-423.77	-320.90	7.73	455867.16	638309.06	N 32 15 10.31 W 104	1 10.73
Wolfcamp Intersection	9953.89	71.76	189.54	9720.00	438.99	-430.21	-322.01	9.37	455860.72	638307.95	N 32 15 10.25 W 104	1 10.74
	10041.00	77.01	183.05	9743.47	522.53	-513.52	-331.14	9.37	455777.41	638298.82	N 32 15 9.43 W 104	1 10.85
	10138.00	85.95	176.53	9757.54	616.29	-607.33	-330.73	11.60	455683.61	638299.22	N 32 15 8.50 W 104	1 10.85
	10230.00	94.35	176.18	9757.30	709.81	-701.05	-324.76	8.94	455589.90	638305.19	N 32 15 7.57 W 104	1 10.78
	10284.00	94.24	176.19	9753.25	763.42	-754.78	-321.18	0.20	455536.17	638308.78	N 32 15 7.04 W 104	1 10.74
	10377.00	92.96	180.36	9747.41	856.06	-847.53	-318.39	4.68	455443.43	638311.57	N 32 15 6.12 W 104	1 10.71
	10471.00	92.17	182.02	9743.20	949.96	-941.41	-320.34	1.95	455349.55	638309.62	N 32 15 5.19 W 104	1 10.74
	10564.00	91.65	184.58	9740.10	1042.86	-1034.20	-325.69	2.81	455256.77	638304.27	N 32 15 4.27 W 104	1 10.80
	10657.00	90.55	187.44	9738.32	1135.55	-1126.66	-335.42	3.29	455164.32	638294.53	N 32 15 3.36 W 104	1 10.92
	10752.00	90.69	189.59	9737.29	1229.85	-1220.60	-349.49	2.27	455070.39	638280.47	N 32 15 2.43 W 104	1 11.09
	10846.00	86.49	186.13	9739.60	1323.22	-1313.66	-362.34	5.79	454977.34	638267.62	N 32 15 1.51 W 104	1 11.24
	10941.00	87.63	183.04	9744.48	1417.95	-1408.21	-369.92	3.46	454882.79	638260.04	N 32 15 0.57 W 104	1 11.33
	11035.00	91.03	185.69	9745.57	1511.82	-1501.91	-377.07	4.59	454789.10	638252.89	N 32 14 59.65 W 104	1 11.42
Exit Target Box	11084.00	89.20	183.52	9745.47	1560.74	-1550.75	-381.01	5.78	454740.27	638248.95	N 32 14 59.16 W 104	1 11.47
	11130.00	87.49	181.49	9746.80	1606.71	-1596.68	-383.02	5.78	454694.34	638246.94	N 32 14 58.71 W 104	1 11.49
	11225.00	87.83	178.81	9750.68	1701.60	-1691.59	-383.27	2.84	454599.43	638246.69	N 32 14 57.77 W 104	1 11.50
Enter Target Box	11313.00	87.67	176.56	9754.14	1789.32	-1779.45	-379.72	2.56	454511.59	638250.24	N 32 14 56.90 W 104	1 11.46
	11319.00	87.66	176.41	9754.38	1795.29	-1785.43	-379.35	2.56	454505.60	638250.61	N 32 14 56.84 W 104	1 11.45
	11414.00	90.21	177.19	9756.15	1889.93	-1880.26	-374.05	2.81	454410.78	638255.01	N 32 14 55.90 W 104	1 11.40
	11508.00	87.56	177.09	9757.98	1983.62	-1974.12	-369.36	2.82	454316.94	638260.60	N 32 14 54.97 W 104	1 11.34
	11603.00	88.87	177.81	9760.85	2078.33	-2068.98	-365.14	1.67	454222.08	638264.82	N 32 14 54.03 W 104	1 11.30
	11697.00	88.07	175.34	9763.28	2171.93	-2162.77	-359.52	2.80	454128.30	638270.44	N 32 14 53.11 W 104	1 11.24
	11792.00	88.80	176.89	9765.87	2266.45	-2257.51	-353.09	1.80	454033.56	638276.87	N 32 14 52.17 W 104	1 11.16
	11886.00	88.90	177.69	9767.76	2360.17	-2351.39	-348.65	0.86	453939.70	638281.31	N 32 14 51.24 W 104	1 11.12
	11981.00	88.52	177.16	9769.90	2454.89	-2446.27	-344.38	0.69	453844.82	638285.58	N 32 14 50.30 W 104	1 11.07
	12075.00	91.41	178.97	9769.96	2548.70	-2540.20	-341.21	3.63	453750.90	638288.75	N 32 14 49.37 W 104	1 11.04
	12266.00	88.57	178.75	9769.99	2739.47	-2731.14	-337.41	1.49	453559.97	638292.55	N 32 14 47.48 W 104	1 11.00
	12455.00	89.36	180.88	9773.40	2928.33	-2920.10	-336.80	1.20	453371.03	638293.16	N 32 14 45.61 W 104	1 11.00
	12550.00	88.36	179.89	9775.29	3023.29	-3015.07	-337.44	1.48	453276.06	638292.52	N 32 14 44.67 W 104	1 11.01
	12644.00	88.57	180.67	9777.81	3117.23	-3109.04	-337.89	0.86	453182.11	638292.06	N 32 14 43.74 W 104	1 11.02
	12834.00	88.05	180.60	9783.42	3307.12	-3298.94	-340.00	0.28	452992.22	638289.96	N 32 14 41.86 W 104	1 11.05
	12928.00	89.29	179.98	9785.60	3401.07	-3392.91	-340.47	1.47	452898.25	638289.48	N 32 14 40.93 W 104	1 11.06
	13023.00	89.63	180.29	9786.49	3496.03	-3487.91	-340.70	0.48	452803.27	638289.26	N 32 14 39.99 W 104	1 11.06
	1312.00	90.15	179.60	9788.86	3684.95	-3676.91	-340.52	0.46	452614.28	638289.44	N 32 14 38.12 W 104	1 11.07
	13306.00	90.49	179.35	9788.33	3778.89	-3770.90	-339.66	0.45	452520.30	638290.30	N 32 14 37.19 W 104	1 11.06
	13495.00	90.08	180.06	9785.39	3967.78	-3959.90	-338.68	0.43	452331.32	638291.27	N 32 14 35.32 W 104	1 11.05
	13684.00	90.94	181.05	9783.71	4156.74	-4148.87	-340.51	0.69	452142.36	638289.44	N 32 14 33.45 W 104	1 11.08
	13873.00	91.45	183.37	9779.77	4345.67	-4337.68	-347.80	1.26	451953.57	638282.16	N 32 14 31.59 W 104	1 11.17
	13967.00	90.70	178.45	9778.00	4439.62	-4431.62	-349.29	5.29	451859.63	638280.67	N 32 14 30.66 W 104	1 11.19
	14062.00	90.56	178.98	9776.96	4534.49	-4526.59	-347.16	0.58	451764.67	638282.80	N 32 14 29.72 W 104	1 11.17
	14251.00	89.91	179.05	9776.18	4723.30	-4715.56	-343.91	0.35	451575.72	638286.05	N 32 14 27.85 W 104	1 11.14
	14345.00	89.84	179.12	9776.39	4817.21	-4809.55	-342.41	0.11	451481.74	638287.55	N 32 14 26.92 W 104	1 11.13
	14534.00	89.05	178.54	9778.22	5005.98	-4998.50	-338.55	0.52	451292.80	638291.41	N 32 14 25.05 W 104	1 11.09
	14723.00	89.91	177.86	9779.93	5194.64	-5187.39	-332.62	0.58	451103.92	638297.34	N 32 14 23.18 W 104	1 11.03
	14817.00	90.18	179.46	9779.86	5288.51	-5281.37	-330.42	1.73	451009.96	638299.54	N 32 14 22.25 W 104	1 11.00
	15007.00	89.50	179.34	9780.39	5478.37	-5471.35	-328.43	0.36	450819.99	638301.53	N 32 14 20.37 W 104	1 10.99
	15101.00	89.43	179.32	9781.27	5572.29	-5565.34	-327.33	0.08	450726.00	638302.63	N 32 14 19.44 W 104	1 10.98
	15196.00	89.80	179.41	9781.91	5667.22	-5660.33	-326.28	0.40	450631.02	638303.68	N 32 14 18.50 W 104	1 10.97
	15385.00	88.74	178.30	9784.31	5855.98	-5849.28	-322.50	0.81	450442.09	638307.46	N 32 14 16.63 W 104	1 10.93
	15574.00	90.42	181.05	9785.70	6044.84	-6038.24	-321.43	1.70	450253.14	638308.53	N 32 14 14.76 W 104	1 10.92
	15763.00	90.56	180.11	9784.08	6233.81	-6227.22	-323.34	0.50	450064.18	638306.62	N 32 14 12.89 W 104	1 10.85
	15858.00	90.70	180.89	9783.04	6328.78	-6322.21	-324.17	0.83	449969.19	638305.79	N 32 14 11.95 W 104	1 10.97
	16047.00	89.60	181.12	9782.54	6517.77	-6511.18	-327.48	0.59	449780.24	638302.47	N 32 14 10.08 W 104	1 11.01
	16141.00	90.53	180.18	9782.44	6611.75	-6605.17	-328.55	1.41	449686.26	638301.41	N 32 14 9.15 W 104	1 11.03
	16235.00	90.53	181.34	9781.57	6705.74	-6699.16	-329.80	1.23	449592.28	638300.16	N 32 14 8.22 W 104	1 11.04
	16330.00	89.60	179.87	9781.46	6800.72	-6794.15	-330.80					

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 ° ' ")
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Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	26.500	417.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	417.500	7015.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	7015.000	19840.000	Act Stns	30.000	30.000	NAL_MWD_JFR1+MS	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'

...Oxy Height CC 6-7 Fed Com 35H\Original Borehole\Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'