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Schlumberger

Oxy Patton MDP1 17 Federal 172H Gyro + MWD 0-16667' MD Survey

Geodetic Report
(Def Survey)

30-015-44990



Report Date: September 14, 2018 - 10:12 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Blot: Oxy Patton MDP1 17 Federal 172H / Patton MDP1 17 Federal 172H
Well: Patton MDP1 17 Federal 172H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Patton MDP1 17 Federal 172H Gyro + MWD 0-16667' MD
Survey Date: September 08, 2018
Tort / AHD / DDI / ERD Ratio: 181 081' / 5832 430 R / 8.174 / 0.494
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 24.83426" W 103° 48' 11.81421"
Location Grid N/E Y/X: N 445471 090 NUS, E 705248 250 NUS
CRS Grid Convergence Angle: 0.2826°
Grid Scale Factor: 0.99993988
Version / Patch: 2 10 740 0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 183.810° (Grid North)
Vertical Section Origin: 0.000 N, 0.000 E
TVD Reference Datum: RKB=28.5'
TVD Reference Elevation: 3557.300 ft above MSL
Seabed / Ground Elevation: 3530.800 ft above MSL
Magnetic Declination: 8.864°
Total Gravity Field Strength: 998.4284mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47879.931 nT
Magnetic Dip Angle: 59.952°
Declination Date: September 08, 2018
Magnetic Declination Model: HDQM 2018
North Reference: GND North
Grid Convergence Used: 0.2826°
Total Corr Mag North-to-Grid North: 6.5812°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 17 2018

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (m)	Easting (m)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	445471.09	705248.25	N 32° 13' 24.83"	W 103° 48' 11.81"
SHL	20.50	0.00	0.00	20.50	0.00	0.00	0.00	0.00	445471.09	705248.25	N 32° 13' 24.83"	W 103° 48' 11.81"
	123.41	0.15	210.99	123.41	0.11	-0.11	-0.07	0.15	445470.98	705248.18	N 32° 13' 24.83"	W 103° 48' 11.81"
	212.80	0.22	223.33	212.80	0.35	-0.33	-0.24	0.09	445470.78	705248.01	N 32° 13' 24.83"	W 103° 48' 11.82"
	300.36	0.32	232.10	300.36	0.64	-0.61	-0.55	0.12	445470.48	705247.70	N 32° 13' 24.83"	W 103° 48' 11.82"
	394.96	0.25	204.13	394.96	1.01	-0.98	-0.84	0.16	445470.13	705247.41	N 32° 13' 24.82"	W 103° 48' 11.82"
	489.48	0.22	190.42	489.48	1.38	-1.32	-0.96	0.07	445469.77	705247.29	N 32° 13' 24.82"	W 103° 48' 11.83"
	584.12	0.23	208.46	584.12	1.73	-1.67	-1.09	0.08	445469.42	705247.16	N 32° 13' 24.82"	W 103° 48' 11.83"
Last Gyro	681.68	0.34	224.36	681.67	2.13	-2.05	-1.39	0.14	445469.04	705246.86	N 32° 13' 24.81"	W 103° 48' 11.83"
	795.00	0.21	211.74	794.99	2.57	-2.48	-1.73	0.13	445468.63	705246.52	N 32° 13' 24.81"	W 103° 48' 11.83"
	983.00	0.03	243.78	982.99	2.89	-2.78	-1.98	0.10	445468.31	705246.20	N 32° 13' 24.81"	W 103° 48' 11.84"
	1077.00	0.03	189.15	1076.99	2.93	-2.81	-1.98	0.03	445468.28	705246.27	N 32° 13' 24.81"	W 103° 48' 11.84"
	1247.00	0.04	177.88	1246.99	3.03	-2.91	-1.99	0.01	445468.18	705246.26	N 32° 13' 24.81"	W 103° 48' 11.84"
	1350.00	0.09	285.01	1350.99	3.05	-2.93	-2.07	0.10	445468.16	705246.18	N 32° 13' 24.81"	W 103° 48' 11.84"
	1548.00	0.04	202.42	1547.99	3.09	-2.95	-2.24	0.05	445468.14	705246.01	N 32° 13' 24.81"	W 103° 48' 11.84"
	1844.00	0.03	229.03	1843.99	3.14	-3.00	-2.27	0.02	445468.09	705245.98	N 32° 13' 24.80"	W 103° 48' 11.84"
	1833.00	0.10	261.00	1832.99	3.21	-3.08	-2.47	0.04	445468.03	705245.78	N 32° 13' 24.80"	W 103° 48' 11.84"
	1927.00	0.03	348.13	1926.99	3.20	-3.05	-2.58	0.11	445468.04	705245.69	N 32° 13' 24.80"	W 103° 48' 11.84"
	2022.00	0.09	290.23	2021.99	3.16	-3.00	-2.63	0.08	445468.09	705245.62	N 32° 13' 24.80"	W 103° 48' 11.85"
	2211.00	0.04	150.04	2210.99	3.17	-3.00	-2.74	0.07	445468.09	705245.51	N 32° 13' 24.80"	W 103° 48' 11.85"
	2305.00	0.04	346.05	2304.99	3.16	-3.00	-2.73	0.08	445468.09	705245.52	N 32° 13' 24.80"	W 103° 48' 11.85"
	2400.00	0.05	212.79	2399.99	3.17	-3.00	-2.76	0.09	445468.09	705245.49	N 32° 13' 24.80"	W 103° 48' 11.85"
	2500.00	0.04	196.90	2499.99	3.24	-3.07	-2.80	0.02	445468.02	705245.45	N 32° 13' 24.80"	W 103° 48' 11.85"
	2594.00	0.05	194.17	2593.99	3.31	-3.14	-2.82	0.01	445467.95	705245.44	N 32° 13' 24.80"	W 103° 48' 11.85"
	2689.00	0.04	151.09	2688.99	3.38	-3.21	-2.81	0.04	445467.88	705245.44	N 32° 13' 24.80"	W 103° 48' 11.85"
	2783.00	0.04	269.34	2782.99	3.40	-3.23	-2.82	0.08	445467.86	705245.43	N 32° 13' 24.80"	W 103° 48' 11.85"
	2878.00	0.10	183.42	2877.99	3.47	-3.30	-2.88	0.12	445467.79	705245.39	N 32° 13' 24.80"	W 103° 48' 11.85"
	2972.00	0.05	87.50	2971.99	3.55	-3.38	-2.82	0.12	445467.71	705245.43	N 32° 13' 24.80"	W 103° 48' 11.85"
	3067.00	0.04	181.84	3066.99	3.58	-3.41	-2.77	0.08	445467.68	705245.48	N 32° 13' 24.80"	W 103° 48' 11.85"
	3161.00	0.04	12.93	3160.99	3.58	-3.41	-2.76	0.08	445467.68	705245.49	N 32° 13' 24.80"	W 103° 48' 11.85"
	3256.00	0.10	328.80	3255.99	3.48	-3.31	-2.79	0.08	445467.78	705245.46	N 32° 13' 24.80"	W 103° 48' 11.85"
	3350.00	0.10	280.82	3349.99	3.40	-3.22	-2.91	0.09	445467.87	705245.34	N 32° 13' 24.80"	W 103° 48' 11.85"
	3445.00	0.08	313.83	3444.99	3.35	-3.16	-3.04	0.06	445467.93	705245.21	N 32° 13' 24.80"	W 103° 48' 11.85"
	3540.00	0.10	282.70	3539.99	3.29	-3.10	-3.17	0.05	445467.99	705245.08	N 32° 13' 24.80"	W 103° 48' 11.85"
	3634.00	0.04	42.32	3633.99	3.25	-3.05	-3.23	0.13	445468.04	705245.02	N 32° 13' 24.80"	W 103° 48' 11.85"
	3729.00	0.10	88.05	3728.99	3.21	-3.02	-3.12	0.08	445468.07	705245.13	N 32° 13' 24.80"	W 103° 48' 11.85"
	3823.00	0.09	141.50	3822.99	3.26	-3.08	-3.00	0.09	445468.01	705245.25	N 32° 13' 24.80"	W 103° 48' 11.85"
	3918.00	0.11	127.75	3917.99	3.37	-3.19	-2.88	0.03	445467.90	705245.37	N 32° 13' 24.80"	W 103° 48' 11.85"
	4012.00	0.13	129.89	4011.99	3.48	-3.32	-2.72	0.02	445467.78	705245.53	N 32° 13' 24.80"	W 103° 48' 11.85"
	4106.00	0.27	99.47	4105.99	3.57	-3.42	-2.42	0.18	445467.67	705245.63	N 32° 13' 24.80"	W 103° 48' 11.84"
	4207.00	0.18	97.58	4206.99	3.60	-3.48	-2.02	0.08	445467.61	705246.25	N 32° 13' 24.80"	W 103° 48' 11.84"
	4301.00	0.05	116.63	4300.99	3.63	-3.52	-1.63	0.15	445467.57	705246.42	N 32° 13' 24.80"	W 103° 48' 11.84"
	4395.00	0.03	189.03	4394.99	3.67	-3.57	-1.80	0.05	445467.52	705246.45	N 32° 13' 24.80"	W 103° 48' 11.84"
	4490.00	0.04	193.90	4489.99	3.73	-3.62	-1.81	0.01	445467.47	705246.44	N 32° 13' 24.80"	W 103° 48' 11.84"
	4585.00	0.04	134.68	4584.99	3.78	-3.68	-1.80	0.04	445467.41	705246.45	N 32° 13' 24.80"	W 103° 48' 11.84"
	4679.00	0.03	110.34	4678.99	3.81	-3.71	-1.75	0.02	445467.38	705246.50	N 32° 13' 24.80"	W 103° 48' 11.83"
	4774.00	0.04	143.64	4773.99	3.84	-3.74	-1.71	0.02	445467.35	705246.54	N 32° 13' 24.80"	W 103° 48' 11.83"
	4868.00	0.04	30.37	4867.99	3.84	-3.74	-1.67	0.07	445467.35	705246.58	N 32° 13' 24.80"	W 103° 48' 11.83"
	4963.00	0.04	219.39	4962.99	3.84	-3.74	-1.68	0.08	445467.35	705246.57	N 32° 13' 24.80"	W 103° 48' 11.83"
	5057.00	0.04	307.03	5056.99	3.85	-3.75	-1.72	0.08	445467.35	705246.53	N 32° 13' 24.80"	W 103° 48' 11.83"
	5152.00	0.04	181.49	5151.99	3.88	-3.78	-1.75	0.07	445467.33	705246.50	N 32° 13' 24.80"	W 103° 48' 11.83"
	5248.00	0.04	181.70	5247.99	3.93	-3.82	-1.75	0.00	445467.27	705246.50	N 32° 13' 24.80"	W 103° 48' 11.83"
	5341.00	0.03	248.83	5340.99	3.97	-3.87	-1.78	0.04	445467.22	705246.47	N 32° 13' 24.80"	W 103° 48' 11.84"
	5530.00	0.05	140.99	5529.99	4.05	-3.95	-1.77	0.03	445467.14	705246.48	N 32° 13' 24.80"	W 103° 48' 11.84"
	5624.00	0.04	355.53	5623.99	4.05	-3.95	-1.75	0.09	445467.14	705246.50	N 32° 13' 24.80"	W 103° 48' 11.83"
	5719.00	0.03	307.53	5718.99	4.01	-3.90	-1.77	0.03	445467.19	705246.48	N 32° 13' 24.80"	W 103° 48' 11.84"
	5813.00	0.05	328.70	5812.99	3.42	-3.29	-2.15	0.87	445467.80	705246.10	N 32° 13' 24.80"	W 103° 48' 11.84"
	5907.00	2.24	329.23	5906.93	1.33	-1.12	-3.45	1.48	445469.67	705244.80	N 32° 13' 24.82"	W 103° 48' 11.85"
	6002.00	3.48	324.31	6001.83	-2.44	2.83	-6.09	1.34	445473.92	705242.16	N 32° 13' 24.86"	W 103° 48' 11.88"
	6096.00	4.76	324.38	6095.58	-7.67	8.32	-10.03	1.35	445479.41	705238.22	N 32° 13' 24.92"	W 103° 48' 11.93"
	6191.00	5.98	326.19	6190.16	-14.66	15.64	-15.08	1.30	445488.73	705233.17	N 32° 13' 24.99"	W 103° 48' 11.99"
	6285.00	7.14	325.32	6283.55	-23.13	24.51	-21.13	1.24	445495.60	705227.12	N 32° 13' 25.08"	W 103° 48' 12.08"
	6380.00	8.03	325.68	6377.72	-33.00	34.85	-28.23	0.94	445505.93	705220.02	N 32° 13' 25.18"	W 103° 48' 12.14"
	6474.00	8.83	328.58	6470.70	-44.09	46.43	-35.69	0.96	445517.51	705212.96	N 32° 13' 25.30"	W 103° 48' 12.23"
	6569.00	8.89	328.96	6564.57	-50.10	58.94	-43.28	0.99	445530.02	705204.97	N 32° 13' 25.42"	W 103° 48' 12.31"
	6663.00	8.51	332.02	6657.36	-68.69	72.02	-50.67	0.84	445543.10	705197.59	N 32° 13' 25.55"	W 103° 48' 12.40"
	6757.00	8.82	332.71	6750.16	-81.48	85.28	-57.61	0.74	445556.37	705190.64	N 32° 13' 25.68"	W 103° 48' 12.48"
	6852.00	9.22	335.99	6843.98	-94.48	98.71	-64.05	0.69	445569.79	705184.20	N 32° 13' 25.81"	W 103° 48' 12.55"
	6946.00	8.67	336.93	6938.84	-107.48	112.10	-69.89	0.61	445583.19	705178.36	N 32° 13' 25.93"	W 103° 48' 12.62"
	7041.00	7.91	337.27	7030.84	-119.74	124.72	-75.22	0.60	445595.80	705173.03	N 32° 13' 26.07"	W 103° 48' 12.68"
	7135.00	7.87	337.14	7123.98	-131.29	136.62	-80.22	0.65	445607.70	705168.03	N 32° 13' 26.19"	W 103° 48' 12.74"
	7230.00	7.69	337.16	7123.08	-142.81	148.47	-85.22	0.19	445619.55	705163.04	N 32° 13' 26.31"	W 103° 48' 12.80"
	7324.00	8.28	338.88	7311.17	-154.57	160.56	-80.09	0.66	445631.64	705158.17	N 32° 13' 26.43"	W 103° 48' 12.85"
	7418.00	8.26	340.85	7404.18	-167.02	173.53	-94.77	0.33	445644.41	705153.49	N 32° 13' 26.55"	W 103° 48' 12.91"
	7513.00	8.37	343.28	7498.17								

Comments	MD	Incl	Azim GHD	TVD	VSEC	NS	EW	CLS	Heading	Easting	Latitude	Longitude
	7.691.00	8.35	341.05	7872.00	-230.60	238.17	-111.77	0.46	445709.25	705138.69	N 32 13 27.20 W 103 48 13.10	EW...
	7865.00	8.03	341.23	7865.44	-263.50	251.23	-111.75	0.34	445722.30	705133.51	N 32 13 27.23 W 103 48 13.14	
	8000.00	7.82	346.29	8059.93	-266.04	263.58	-117.45	0.26	445735.05	705130.51	N 32 13 27.45 W 103 48 13.17	
	8177.00	7.28	345.16	8156.89	-280.18	270.34	-120.88	0.07	445747.41	705127.28	N 32 13 27.57 W 103 48 13.21	
	8272.00	6.72	342.83	8258.98	-286.09	287.47	-124.07	0.07	445758.95	705124.19	N 32 13 27.68 W 103 48 13.24	
	8406.00	5.93	339.69	8341.41	-289.84	297.28	-127.44	0.06	445768.33	705118.87	N 32 13 27.87 W 103 48 13.25	
	8554.00	5.28	335.41	8431.26	-297.77	308.65	-131.29	0.02	445777.72	705114.44	N 32 13 27.97 W 103 48 13.28	
	8654.00	4.80	333.45	8523.25	-307.77	319.77	-140.53	0.02	445787.14	705109.44	N 32 13 28.07 W 103 48 13.31	
	8820.00	5.07	335.38	8623.49	-318.65	328.36	-146.55	0.00	445797.45	705098.71	N 32 13 28.25 W 103 48 13.32	
	8920.00	5.77	335.39	8723.59	-334.05	344.12	-148.54	0.00	445807.16	705089.17	N 32 13 28.25 W 103 48 13.32	
	9020.00	6.07	335.33	8823.59	-350.78	359.51	-151.80	0.00	445817.46	705079.55	N 32 13 28.25 W 103 48 13.35	
	9220.00	3.87	334.65	8923.12	-340.78	359.51	-154.71	0.43	445827.02	705069.33	N 32 13 28.25 W 103 48 13.35	
	9320.00	4.77	334.65	9023.12	-351.55	362.20	-158.04	1.00	445837.37	705059.22	N 32 13 28.25 W 103 48 13.35	
	9518.00	6.91	332.42	9123.36	-359.13	370.18	-160.68	2.40	445847.23	705049.44	N 32 13 28.25 W 103 48 13.35	
	9712.00	8.27	332.42	9223.53	-387.59	379.17	-170.88	2.05	445857.54	705039.55	N 32 13 28.25 W 103 48 13.32	
	9847.00	8.96	331.55	9323.51	-373.18	387.45	-183.06	1.85	445865.32	705029.20	N 32 13 28.25 W 103 48 13.32	
	9911.00	9.38	328.74	9421.36	-381.21	394.33	-191.99	1.41	445875.40	705019.44	N 32 13 28.25 W 103 48 13.32	
	9950.00	8.76	328.53	9520.04	-380.08	400.14	-210.66	1.10	445881.20	705009.44	N 32 13 28.25 W 103 48 13.32	
	9950.00	8.71	291.31	9623.82	-380.30	409.26	-224.84	1.21	445897.32	704999.44	N 32 13 28.25 W 103 48 13.32	
	9970.00	8.83	307.39	9721.74	-393.96	411.25	-237.79	1.24	445907.42	704989.44	N 32 13 28.25 W 103 48 13.32	
	9970.00	8.79	319.97	9821.88	-402.53	418.07	-249.56	1.32	445917.46	704979.44	N 32 13 28.25 W 103 48 13.32	
	9970.00	8.55	329.70	9921.92	-411.74	428.96	-259.90	2.01	445927.46	704969.44	N 32 13 28.25 W 103 48 13.32	
	10020.00	7.80	334.16	10021.52	-422.74	440.48	-280.84	1.36	445937.46	704959.44	N 32 13 28.25 W 103 48 13.32	
	10020.00	7.51	334.16	10121.52	-430.50	452.62	-273.20	2.44	445947.46	704949.44	N 32 13 28.25 W 103 48 13.32	
	10020.00	7.51	334.16	10221.52	-438.50	464.76	-273.20	1.61	445957.46	704939.44	N 32 13 28.25 W 103 48 13.32	
	10040.00	4.44	10.82	10309.83	-453.14	483.38	-271.10	1.04	445967.46	704929.44	N 32 13 28.25 W 103 48 13.32	
	10050.00	3.83	9.03	10399.54	-472.40	490.54	-272.64	0.13	445977.46	704919.44	N 32 13 28.25 W 103 48 13.32	
	10050.00	2.87	8.03	10489.14	-479.10	497.17	-271.58	0.66	445987.46	704909.44	N 32 13 28.25 W 103 48 13.32	
	10024.00	0.75	341.69	10584.09	-484.53	502.87	-270.83	1.04	445997.46	704899.44	N 32 13 28.25 W 103 48 13.32	
	10081.00	0.32	170.32	10694.08	-478.14	508.19	-270.83	2.30	446007.46	704889.44	N 32 13 28.25 W 103 48 13.32	
	11181.00	7.21	118.05	11181.03	-453.53	483.23	-272.60	3.45	446017.46	704879.44	N 32 13 28.25 W 103 48 13.32	
	11275.00	18.41	11231.84	-453.53	471.79	471.79	-276.56	12.80	446027.46	704869.44	N 32 13 28.25 W 103 48 13.32	
	11405.00	28.56	117.07	11393.32	-384.00	382.17	-273.11	8.40	446037.46	704859.44	N 32 13 28.25 W 103 48 13.32	
	11599.00	42.73	117.42	11599.00	-377.90	382.17	-273.11	7.82	446047.46	704849.44	N 32 13 28.25 W 103 48 13.32	
	11597.00	45.66	160.40	11597.00	-259.72	259.72	-274.67	1.92	446057.46	704839.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	11634.00	-180.59	178.27	-274.67	7.82	446067.46	704829.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	11734.00	-180.59	178.27	-274.67	7.82	446077.46	704819.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	11834.00	-180.59	178.27	-274.67	7.82	446087.46	704809.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	11934.00	-180.59	178.27	-274.67	7.82	446097.46	704799.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12034.00	-180.59	178.27	-274.67	7.82	446107.46	704789.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12134.00	-180.59	178.27	-274.67	7.82	446117.46	704779.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12234.00	-180.59	178.27	-274.67	7.82	446127.46	704769.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12334.00	-180.59	178.27	-274.67	7.82	446137.46	704759.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12434.00	-180.59	178.27	-274.67	7.82	446147.46	704749.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12534.00	-180.59	178.27	-274.67	7.82	446157.46	704739.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12634.00	-180.59	178.27	-274.67	7.82	446167.46	704729.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12734.00	-180.59	178.27	-274.67	7.82	446177.46	704719.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12834.00	-180.59	178.27	-274.67	7.82	446187.46	704709.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	12934.00	-180.59	178.27	-274.67	7.82	446197.46	704699.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13034.00	-180.59	178.27	-274.67	7.82	446207.46	704689.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13134.00	-180.59	178.27	-274.67	7.82	446217.46	704679.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13234.00	-180.59	178.27	-274.67	7.82	446227.46	704669.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13334.00	-180.59	178.27	-274.67	7.82	446237.46	704659.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13434.00	-180.59	178.27	-274.67	7.82	446247.46	704649.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13534.00	-180.59	178.27	-274.67	7.82	446257.46	704639.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13634.00	-180.59	178.27	-274.67	7.82	446267.46	704629.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13734.00	-180.59	178.27	-274.67	7.82	446277.46	704619.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13834.00	-180.59	178.27	-274.67	7.82	446287.46	704609.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	13934.00	-180.59	178.27	-274.67	7.82	446297.46	704599.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14034.00	-180.59	178.27	-274.67	7.82	446307.46	704589.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14134.00	-180.59	178.27	-274.67	7.82	446317.46	704579.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14234.00	-180.59	178.27	-274.67	7.82	446327.46	704569.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14334.00	-180.59	178.27	-274.67	7.82	446337.46	704559.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14434.00	-180.59	178.27	-274.67	7.82	446347.46	704549.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14534.00	-180.59	178.27	-274.67	7.82	446357.46	704539.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14634.00	-180.59	178.27	-274.67	7.82	446367.46	704529.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14734.00	-180.59	178.27	-274.67	7.82	446377.46	704519.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14834.00	-180.59	178.27	-274.67	7.82	446387.46	704509.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	14934.00	-180.59	178.27	-274.67	7.82	446397.46	704499.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15034.00	-180.59	178.27	-274.67	7.82	446407.46	704489.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15134.00	-180.59	178.27	-274.67	7.82	446417.46	704479.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15234.00	-180.59	178.27	-274.67	7.82	446427.46	704469.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15334.00	-180.59	178.27	-274.67	7.82	446437.46	704459.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15434.00	-180.59	178.27	-274.67	7.82	446447.46	704449.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15534.00	-180.59	178.27	-274.67	7.82	446457.46	704439.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	181.70	15634.00	-180.59	178.27	-274.67	7.82	446467.46	704429.44	N 32 13 28.25 W 103 48 13.32	
	11634.00	58.07	1									

Comments	MD (m)	Incl (°)	Azim Grid (°)	TVD (m)	VSEC (m)	NS (m)	EW (m)	OLS (°/100m)	Northng (mUS)	Eastng (mUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	551.650	16667.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS				
									Original Borehole / Oxy Patton MDP1 17 Federal 172H Gyro +			



Structure:

Oxy Patton MDP1 17 Federal 172H

Miscellaneous

Stat	Porton MCP1 17 Federal 1724	TYD Ref.	R32=23.8 (267.39 above MSLL)
Run	Dry Porton MCP1 17 Federal 1724 Gyre - 18ND 0-10667140		

KOP Actual
10981 MD 10941 TVD
0.32° ind 170.32° az
N+508 E+271

Patten NGPS 17 Federal 172H Top Part

Point of Comm
10981 MD 10941 TVD
0.32° ind 170.32° az
N+508 E+271

Last Gyro
10981 MD 10941 TVD
0.32° ind 224.30° az
N+508 E+271

SPT
27 MD 27 TVD
0.00° ind 0.00° az
N+0 E+0

Tagel Line - Noddy DE

Tagel Line - Noddy DE prior to Cross

N

Hard Line - DO NOT CROSS

SSORION - DO NOT CROSS

Point of Comm
10981 MD 10941 TVD
0.32° ind 170.32° az
N+508 E+271

Proj to Ed
10981 MD 10941 TVD
0.32° ind 181.03° az
N+470 E+234

Final GYRO Survey
10981 MD 10941 TVD
0.32° ind 181.03° az
N+470 E+234

Patten NGPS 17 Federal 172H Bottom Part

Patten NGPS 17 Federal 172H Part

Scale: 0 1000 2000 3000 4000 5000 Feet

EW (7) Scale = 1 1000 DOPU

On 1/2/80, the 1/2/80, and 1/2/80

Only Patron MDP 11 Federal 172H Gyro • NYD 0-18457 MD

Vertical Section (ft) Azm = 183.61° Scale = 1:2200 00(ft) Origin = CNV-S, 0E/W