

Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20,375' Survey Geodetic Report (Def Survey)



Report Date: May 24, 2018 - 04:37 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Nimitz MDP1 12 Federal 9H / Oxy Nimitz MDP1 12 Federal 9H
Well: Oxy Nimitz MDP1 12 Federal 9H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44511
Survey Name: Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20,375'
Survey Date: April 30, 2018
Tort / AHD / DDI / ERD Ratio: 254.318' / 11178.989 ft / 6.765' / 1.124
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 25.86650", W 103° 50' 13.80193"
Location Grid N/E Y/X: N 445525.360 RUS, E 694769.060 RUS
CRS Grid Convergence Angle: 0.2646°
Grid Scale Factor: 0.99993605
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 1.915° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3518.800 ft above MSL
Seabed / Ground Elevation: 3492.300 ft above MSL
Magnetic Declination: 6.925°
Total Gravity Field Strength: 998.4309mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48021.571 nT
Magnetic Dip Angle: 59.977°
Declination Date: April 30, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.2646°
Total Corr Mag North→Grid: 6.6601°
North: Well Head
Local Coord Referenced To:

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUN 26 2018

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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 ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	445525.36	694769.06	N 32 13 25.87	W 103 50 13.80
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445525.36	694769.06	N 32 13 25.87	W 103 50 13.80
	75.20	0.12	64.92	75.20	0.02	0.02	0.05	0.25	445525.38	694769.11	N 32 13 25.87	W 103 50 13.80
	167.80	0.17	117.75	167.80	0.01	0.00	0.26	0.15	445525.36	694769.32	N 32 13 25.87	W 103 50 13.80
	260.20	0.46	170.30	260.20	-0.42	-0.43	0.44	0.41	445524.93	694769.50	N 32 13 25.86	W 103 50 13.80
	352.70	0.47	180.79	352.70	-1.16	-1.18	0.50	0.09	445524.18	694769.56	N 32 13 25.85	W 103 50 13.80
	445.30	0.27	183.83	445.29	-1.76	-1.77	0.48	0.22	445523.59	694769.54	N 32 13 25.85	W 103 50 13.80
	537.80	0.25	210.01	537.79	-2.15	-2.17	0.36	0.13	445523.19	694769.42	N 32 13 25.85	W 103 50 13.80
	630.30	0.07	247.32	630.29	-2.35	-2.36	0.21	0.22	445523.00	694769.27	N 32 13 25.84	W 103 50 13.80
	722.80	0.07	194.30	722.79	-2.43	-2.44	0.14	0.07	445522.92	694769.20	N 32 13 25.84	W 103 50 13.80
	816.00	0.10	218.70	815.99	-2.55	-2.56	0.08	0.05	445522.80	694769.14	N 32 13 25.84	W 103 50 13.80
	910.60	0.07	219.08	910.59	-2.67	-2.67	-0.01	0.03	445522.69	694769.05	N 32 13 25.84	W 103 50 13.80
	1005.00	0.09	225.54	1004.99	-2.77	-2.76	-0.10	0.02	445522.60	694768.96	N 32 13 25.84	W 103 50 13.80
	1099.60	0.09	213.58	1099.59	-2.88	-2.88	-0.19	0.02	445522.48	694768.87	N 32 13 25.84	W 103 50 13.80
	1194.40	0.09	226.44	1194.39	-3.00	-2.99	-0.29	0.02	445522.37	694768.77	N 32 13 25.84	W 103 50 13.81
	1289.20	0.08	224.21	1289.19	-3.10	-3.09	-0.39	0.01	445522.27	694768.67	N 32 13 25.84	W 103 50 13.81
	1383.70	0.06	219.41	1383.69	-3.19	-3.17	-0.47	0.02	445522.19	694768.59	N 32 13 25.84	W 103 50 13.81
	1478.40	0.09	328.54	1478.39	-3.17	-3.15	-0.54	0.13	445522.21	694768.52	N 32 13 25.84	W 103 50 13.81
	1573.10	0.10	326.42	1573.09	-3.04	-3.02	-0.62	0.01	445522.34	694768.44	N 32 13 25.84	W 103 50 13.81
	1667.80	0.10	324.05	1667.79	-2.90	-2.88	-0.72	0.00	445522.48	694768.34	N 32 13 25.84	W 103 50 13.81
	1762.60	0.11	323.67	1762.59	-2.77	-2.74	-0.82	0.01	445522.62	694768.24	N 32 13 25.84	W 103 50 13.81
	1857.60	0.10	330.70	1857.59	-2.62	-2.60	-0.91	0.02	445522.76	694768.15	N 32 13 25.84	W 103 50 13.81
	1952.10	0.10	323.52	1952.09	-2.49	-2.46	-1.00	0.01	445522.90	694768.06	N 32 13 25.84	W 103 50 13.81
	2046.80	0.06	228.72	2046.79	-2.46	-2.42	-1.09	0.13	445522.94	694767.97	N 32 13 25.84	W 103 50 13.81
	2141.60	0.06	216.87	2141.59	-2.53	-2.50	-1.16	0.01	445522.86	694767.80	N 32 13 25.84	W 103 50 13.81
	2236.40	0.06	233.89	2236.39	-2.60	-2.57	-1.23	0.02	445522.79	694767.63	N 32 13 25.84	W 103 50 13.82
	2330.70	0.07	225.66	2330.69	-2.68	-2.63	-1.31	0.01	445522.73	694767.55	N 32 13 25.84	W 103 50 13.82
	2425.40	0.09	229.57	2425.39	-2.77	-2.72	-1.40	0.02	445522.64	694767.46	N 32 13 25.84	W 103 50 13.82
	2520.00	0.09	229.08	2519.99	-2.87	-2.82	-1.52	0.00	445522.54	694767.34	N 32 13 25.84	W 103 50 13.82
	2614.80	0.08	237.78	2614.79	-2.96	-2.90	-1.63	0.02	445522.46	694767.23	N 32 13 25.84	W 103 50 13.82
	2709.70	0.08	227.31	2709.69	-3.04	-2.98	-1.73	0.02	445522.38	694767.13	N 32 13 25.84	W 103 50 13.82
	2804.30	0.09	197.00	2804.29	-3.16	-3.10	-1.80	0.05	445522.26	694767.02	N 32 13 25.84	W 103 50 13.82
	2898.70	0.14	242.66	2898.69	-3.29	-3.22	-1.93	0.11	445522.14	694766.91	N 32 13 25.83	W 103 50 13.82
	2993.00	0.08	352.55	2992.99	-3.28	-3.21	-2.04	0.19	445522.15	694766.82	N 32 13 25.83	W 103 50 13.83
	3087.50	0.12	325.47	3087.49	-3.13	-3.06	-2.10	0.06	445522.30	694766.66	N 32 13 25.84	W 103 50 13.83
	3182.00	0.09	34.85	3181.99	-2.99	-2.92	-2.12	0.13	445522.44	694766.54	N 32 13 25.84	W 103 50 13.83
	3276.30	0.04	120.11	3276.29	-2.94	-2.88	-2.05	0.10	445522.48	694766.41	N 32 13 25.84	W 103 50 13.83
	3370.70	0.05	103.53	3370.69	-2.97	-2.90	-1.98	0.02	445522.46	694766.28	N 32 13 25.84	W 103 50 13.83
	3465.20	0.10	51.20	3465.19	-2.92	-2.86	-1.87	0.08	445522.50	694766.19	N 32 13 25.84	W 103 50 13.82
	3654.20	0.08	251.51	3654.19	-2.86	-2.80	-1.87	0.09	445522.56	694766.10	N 32 13 25.84	W 103 50 13.82
	3748.60	0.04	343.05	3748.59	-2.85	-2.79	-1.94	0.10	445522.57	694766.02	N 32 13 25.84	W 103 50 13.82
	3843.20	0.12	11.66	3843.19	-2.72	-2.66	-1.93	0.09	445522.70	694765.93	N 32 13 25.84	W 103 50 13.82
	3937.70	0.11	14.35	3937.69	-2.54	-2.48	-1.89	0.01	445522.88	694765.84	N 32 13 25.84	W 103 50 13.82
	4032.00	0.10	349.84	4031.99	-2.37	-2.31	-1.88	0.05	445523.05	694765.75	N 32 13 25.84	W 103 50 13.82
	4126.60	0.10	349.01	4126.59	-2.21	-2.14	-1.91	0.00	445523.22	694765.66	N 32 13 25.85	W 103 50 13.82
	4220.90	0.11	10.83	4220.89	-2.04	-1.98	-1.91	0.04	445523.38	694765.57	N 32 13 25.85	W 103 50 13.82
	4315.30	0.08	28.10	4315.29	-1.89	-1.83	-1.86	0.04	445523.53	694765.48	N 32 13 25.85	W 103 50 13.82
	4410.00	0.02	347.24	4409.99	-1.81	-1.75	-1.84	0.07	445523.61	694765.39	N 32 13 25.85	W 103 50 13.82
	4504.50	0.10	88.42	4504.49	-1.79	-1.74	-1.76	0.11	445523.62	694765.30	N 32 13 25.85	W 103 50 13.82
	4599.10	0.13	336.89	4599.09	-1.69	-1.63	-1.72	0.20	445523.73	694765.21	N 32 13 25.85	W 103 50 13.82
	4694.10	0.10	2.45	4694.09	-1.51	-1.45	-1.76	0.06	445523.91	694765.12	N 32 13 25.85	W 103 50 13.82
	4788.50	0.13	22.75	4788.49	-1.33	-1.27	-1.71	0.05	445524.09	694765.03	N 32 13 25.85	W 103 50 13.82
	4883.10	0.18	346.21	4883.09	-1.08	-1.03	-1.70	0.11	445524.33	694764.94	N 32 13 25.85	W 103 50 13.82
	4977.50	0.10	8.86	4977.49	-0.86	-0.80	-1.73	0.10	445524.56	694764.85	N 32 13 25.86	W 103 50 13.82
	5072.00	0.08	240.49	5071.99	-0.81	-0.75	-1.77	0.17	445524.61	694764.76	N 32 13 25.86	W 103 50 13.82
	5166.70	0.13	226.56	5166.69	-0.92	-0.86	-1.91	0.06	445524.50	694764.67	N 32 13 25.86	W 103 50 13.82
	5261.30	0.08	254.01	5261.29	-1.02	-0.95	-2.05	0.07	445524.41	694764.58	N 32 13 25.86	W 103 50 13.82
	5356.10	0.04	254.85	5356.09	-1.05	-0.98	-2.14	0.04	445524.38	694764.49	N 32 13 25.86	W 103 50 13.83
	5450.70	0.11	199.41	5450.69	-1.15	-1.07	-2.21	0.10	445524.29	694764.40	N 32 13 25.86	W 103 50 13.83
	5545.20	0.10	196.99	5545.19	-1.31	-1.24	-2.26	0.01	445524.12	694764.31	N 32 13 25.85	W 103 50 13.83
	5640.10	0.09	195.30	5640.09	-1.46	-1.39	-2.30	0.01	445523.97	694764.22	N 32 13 25.85	W 103 50 13.83
	5734.80	0.12	204.04	5734.79	-1.63	-1.55	-2.36	0.04	445523.81	694764.13	N 32 13 25.85	W 103 50 13.83
	5829.70	0.13	212.04	5829.69	-1.81	-1.73	-2.46	0.02	445523.63	694764.04	N 32 13 25.85	W 103 50 13.83
	5924.40	1.29	129.56	5924.38	-2.56	-2.50	-1.70	1.35	445522.86	694767.36	N 32 13 25.84	W 103 50 13.82
	6019.00	3.27	104.37	6018.90	-3.79	-3.85	1.74	2.30	445521.51	694770.80	N 32 13 25.83	W 103 50 13.78
	6113.80	5.45	98.89	6113.42	-4.92	-5.22	8.81	2.34	445520.14	694777.86	N 32 13 25.81	W 103 50 13.70
	6208.70	7.63	98.32	6207.70	-6.17	-6.83	19.49	2.30	445518.53	694788.55	N 32 13 25.80	W 103 50 13.58
	6303.30	9.65	97.42	6301.22	-7.63	-8.76	33.57	2.14	445516.60	694802.63	N 32 13 25.78	W 103 50 13.41
	6397.80	9.31	89.16	6394.43	-8.02	-9.67	49.07	1.48	445515.69	694818.13	N 32 13 25.77	W 103 50 13.23
	6492.40	8.23	80.37	6487.93	-6.30	-8.43	63.40	1.82	445516.94	694832.45	N 32 13 25.78	W 103 50 13.06
	6586.80	6.92	55.39	6581.53	-1.56	-4.06	74.74	3.72	445521.30	694843.80	N 32 13 25.82	W 103 50 12.93
	6681.20	7.21	34.74	6675.23	6.80	4.04	82.80	2.69	445529.40	694851.85	N 32 13 25.90	W 103 50 12.84
	6775.90	6.90	31.69	6769.21	16.73	13.76	89.17	0.51	445539.12	694858.23	N 32 13 26.00	W 103 50 12.76
	6870.60	6.97	35.12	6863.22	26.48	23.30	95.47	0.44	445548.66	694864.52	N 32 13 26.09	W 103 50 12.69
	6965.30	7.06	39.48	6957.21	35.90	32.49	102.47	0.57	445557.85	694871.53	N 32 13 26.18	W 103 50 12.61
	7060.00	8.87										

Comments	MD	Incl	Azim	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
(ft)	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(N 13 26.43 W 103 50 12.17)	(E 101 50 12.17)
	7343.00	7.09	72.32	7332.69	62.56	57.81	140.13	1.00	445583.26	694600.18	N 32 13 26.43 W 103 50 12.17	
	7438.70	7.01	82.18	7427.06	65.50	60.47	151.43	1.28	445565.82	694622.48	N 32 13 26.46 W 103 50 12.04	
	7533.30	7.18	88.15	7523.06	66.86	61.45	163.07	0.80	445556.80	694642.12	N 32 13 26.47 W 103 50 11.90	
	7627.90	7.05	94.82	7618.91	66.95	59.15	174.63	0.68	445536.50	694649.31	N 32 13 26.48 W 103 50 11.76	
	7722.70	7.11	97.88	7703.92	66.04	56.26	186.36	0.42	445531.81	694652.41	N 32 13 26.43 W 103 50 11.50	
	7812.50	6.88	98.05	7803.02	64.83	56.26	197.64	0.34	445531.81	694652.41	N 32 13 26.43 W 103 50 11.50	
	7912.50	6.88	102.51	7893.06	61.12	53.50	208.52	0.39	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8006.80	7.01	102.27	7981.06	52.40	50.46	218.52	0.48	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8101.60	6.53	96.83	8053.30	48.10	47.86	228.20	0.33	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8201.30	4.55	32.55	8272.30	78.85	68.86	238.20	1.36	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8281.70	4.55	32.55	8323.60	78.85	68.86	238.20	1.36	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8340.30	4.74	32.87	8388.00	84.30	76.39	248.05	1.22	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8574.80	4.58	10.48	8556.48	98.64	90.87	258.05	0.11	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8793.60	4.51	42.79	8744.70	108.67	97.34	268.05	2.70	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8835.10	5.31	70.88	8838.74	112.83	104.51	278.05	0.94	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	8852.50	6.50	77.81	8832.15	115.70	107.07	280.17	1.56	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	9046.80	8.65	70.39	9026.31	119.62	110.59	287.20	2.41	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	9141.40	10.96	68.16	9119.42	123.85	116.32	287.20	2.48	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	9236.09	12.99	67.01	9211.96	133.95	123.82	287.20	2.16	445529.16	694652.41	N 32 13 26.43 W 103 50 11.27	
	9320.70	23.55	67.56	9301.76	146.27	135.23	332.70	11.15	445560.56	695107.38	N 32 13 27.08 W 103 50 9.92	
	9425.40	32.89	58.04	9385.15	168.46	156.11	372.11	10.92	445681.46	695141.14	N 32 13 27.39 W 103 50 9.46	
	9520.30	34.88	39.67	9464.09	204.43	190.79	426.75	13.65	445763.09	695205.78	N 32 13 27.74 W 103 50 8.71	
	9615.20	34.65	18.88	9542.34	252.21	237.74	436.75	12.98	445817.77	695211.83	N 32 13 28.24 W 103 50 8.63	
	9709.90	37.41	356.43	9618.19	307.06	282.42	442.80	16.44	445817.77	695206.70	N 32 13 28.24 W 103 50 8.63	
	9804.50	38.45	354.04	9693.81	364.92	350.45	438.88	5.29	446308.29	695218.50	N 32 13 28.87 W 103 50 8.67	
	9903.10	47.04	354.77	9766.15	431.34	430.11	430.32	7.04	446036.05	695199.35	N 32 13 30.68 W 103 50 8.73	
	9997.60	51.68	359.54	9827.71	502.75	488.65	432.58	6.22	446036.05	695202.59	N 32 13 31.82 W 103 50 8.52	
	10050.00	55.18	1.00	9958.92	628.09	613.98	437.67	16.44	446229.82	695206.70	N 32 13 32.82 W 103 50 8.67	
	10145.00	67.72	2.05	9994.24	718.74	704.51	443.64	1.83	446401.02	695218.50	N 32 13 33.60 W 103 50 8.60	
	10233.00	83.02	4.30	9927.81	828.09	783.98	443.67	2.80	446401.02	695218.50	N 32 13 34.51 W 103 50 8.73	
	10319.00	88.42	3.09	9934.69	898.25	875.72	443.67	0.06	446401.02	695218.50	N 32 13 35.39 W 103 50 8.68	
	10411.00	88.42	3.09	9934.69	898.25	875.72	443.67	0.06	446401.02	695218.50	N 32 13 35.39 W 103 50 8.68	
	10501.00	91.20	358.55	9938.80	1080.15	1065.63	442.28	0.95	446782.69	695231.31	N 32 13 36.39 W 103 50 8.48	
	10593.00	91.27	358.72	9938.80	1271.56	1257.42	444.36	0.17	446782.69	695202.59	N 32 13 36.39 W 103 50 8.56	
	10682.00	90.93	356.95	9938.80	1459.32	1440.88	437.81	0.46	446782.69	695202.59	N 32 13 36.39 W 103 50 8.68	
	10772.00	90.93	356.95	9938.80	1554.32	1540.88	427.81	0.07	447066.14	695196.94	N 32 13 41.08 W 103 50 8.74	
	11077.00	90.93	356.68	9938.80	1647.95	1634.73	422.75	0.82	447254.81	695186.45	N 32 13 42.92 W 103 50 8.85	
	11266.00	91.48	356.68	9938.80	1742.54	1729.56	417.42	0.73	447348.57	695186.45	N 32 13 43.96 W 103 50 8.85	
	11351.00	90.96	356.82	9938.80	1837.06	1824.33	411.37	0.23	447348.57	695186.45	N 32 13 43.96 W 103 50 8.85	
	11454.00	91.07	358.41	9938.80	1923.42	1913.08	403.01	1.58	447348.57	695186.45	N 32 13 43.96 W 103 50 8.85	
	11584.00	91.13	358.41	9938.80	2023.42	2013.08	403.01	0.36	447728.21	695167.78	N 32 13 46.71 W 103 50 9.02	
	11740.00	91.07	358.41	9938.80	2120.27	2202.99	380.72	0.04	447728.21	695167.78	N 32 13 46.71 W 103 50 9.02	
	11834.00	90.96	358.41	9938.80	2206.94	2298.94	386.72	0.16	447728.21	695167.78	N 32 13 46.71 W 103 50 9.02	
	11929.00	90.96	358.41	9938.80	2304.89	2391.89	393.35	0.30	447728.21	695167.78	N 32 13 46.71 W 103 50 9.02	
	12024.00	90.93	358.55	9938.80	2408.50	2486.64	380.72	0.11	448106.93	695157.35	N 32 13 50.46 W 103 50 9.12	
	12116.00	90.93	358.55	9938.80	2539.33	2581.78	386.72	0.41	448106.93	695157.35	N 32 13 50.46 W 103 50 9.12	
	12213.00	91.00	358.84	9903.43	2687.17	2676.73	386.72	0.06	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12307.00	90.96	358.84	9903.43	2781.03	2769.73	386.72	0.06	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12402.00	91.20	358.85	9903.43	2871.89	2869.66	382.95	0.27	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12497.00	91.20	358.85	9903.43	2970.75	2969.66	382.95	0.13	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12592.00	91.72	358.76	9888.11	3065.58	3054.61	379.36	0.37	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12687.00	89.43	0.55	9883.87	3148.23	3137.48	376.18	0.53	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12781.00	88.78	0.56	9879.24	3242.14	3231.45	376.18	0.38	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12869.00	88.93	0.56	9879.24	3335.06	3324.37	376.18	0.20	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	12954.00	88.93	0.40	9879.24	3428.02	3417.32	376.18	0.53	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13041.00	89.42	0.40	9879.24	3521.02	3510.33	376.18	0.20	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13128.00	88.93	0.47	9879.24	3614.82	3604.10	380.11	2.36	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13215.00	88.93	0.47	9879.24	3708.62	3698.49	380.11	2.91	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13302.00	88.93	0.79	9879.24	3802.42	3792.88	380.11	2.91	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13389.00	88.04	0.75	9879.24	3896.22	3886.15	380.11	0.34	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13476.00	88.07	0.74	9879.24	3990.02	3980.02	380.11	0.34	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13563.00	88.07	1.93	9879.24	4083.82	4073.82	380.11	1.27	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13650.00	88.48	1.35	9879.24	4177.62	4167.62	380.11	0.88	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13737.00	88.93	0.82	9879.24	4271.42	4261.42	380.11	0.75	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13824.00	88.93	0.76	9879.24	4365.22	4355.22	380.11	0.88	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	13911.00	88.93	1.77	9879.24	4459.02	4449.02	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14000.00	88.93	1.77	9879.24	4552.82	4542.82	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14089.00	88.93	1.77	9879.24	4646.62	4636.62	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14178.00	88.93	1.77	9879.24	4740.42	4730.42	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14267.00	88.93	1.77	9879.24	4834.22	4824.22	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14356.00	88.93	1.77	9879.24	4928.02	4918.02	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14445.00	88.93	1.77	9879.24	5021.82	5011.82	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14534.00	88.93	1.77	9879.24	5115.62	5105.62	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14623.00	88.93	1.77	9879.24	5209.42	5199.42	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14712.00	88.93	1.77	9879.24	5303.22	5293.22	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14801.00	88.93	1.77	9879.24	5397.02	5387.02	380.11	1.55	448204.90	695157.35	N 32 13 52.32 W 103 50 9.16	
	14890.00	88.93										

Comments	MD (ft)	Incl (°)	Azim Ghd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S - °)	Longitude (E/W - °)
	18547.00	89.35	359.52	8946.53	8014.34	8007.06	368.46	1.73	454531.83	689137.49	N 32 14 54.97	W 103 50 8.03
	18542.00	90.07	360.00	8947.31	8203.21	8102.06	368.06	0.91	454628.82	689137.10	N 32 14 55.91	W 103 50 8.03
	18736.00	90.07	359.59	8947.20	8293.14	8196.06	367.72	0.44	454720.81	689136.78	N 32 14 56.84	W 103 50 8.03
	18830.00	89.97	359.87	8947.16	8393.07	8280.06	367.28	0.32	454814.80	689136.32	N 32 14 57.71	W 103 50 8.03
	18823.00	90.14	359.86	8947.07	8394.96	8349.06	366.89	0.28	454909.80	689135.93	N 32 14 58.72	W 103 50 8.03
	18714.00	90.41	0.16	8946.16	8594.86	8574.05	366.50	0.59	455003.78	689135.59	N 32 14 59.73	W 103 50 8.02
	18209.00	90.00	0.32	8945.82	8797.52	8569.05	367.18	1.71	455098.77	689135.00	N 32 15 0.73	W 103 50 8.01
	18398.00	90.17	359.12	8945.51	8858.78	8648.04	366.60	1.89	455193.75	689134.58	N 32 15 1.74	W 103 50 8.00
	18493.00	90.24	0.86	8944.00	8959.73	8693.01	367.55	0.77	455277.73	689134.06	N 32 15 2.75	W 103 50 8.99
	18683.00	91.96	359.57	8943.37	9043.46	8742.99	367.83	0.56	455367.68	689133.58	N 32 15 3.76	W 103 50 8.87
	18777.00	91.38	359.03	8940.22	10243.46	10236.98	366.68	0.59	455467.68	689133.22	N 32 15 4.77	W 103 50 8.86
	18966.00	90.52	359.12	8936.82	10432.23	10425.90	363.63	0.40	455560.56	689132.63	N 32 15 5.78	W 103 50 9.01
	20060.00	0.71	8935.98	9835.98	10526.17	10518.89	363.49	1.69	455644.56	689132.15	N 32 15 6.79	W 103 50 9.00
Final LWD Survey	20248.00	91.20	359.06	9833.15	10715.02	10708.87	363.11	0.94	455733.52	689131.15	N 32 15 11.81	W 103 50 9.00
	20336.00	90.79	359.63	9931.64	10801.92	10795.85	362.12	0.81	455820.49	689130.90	N 32 15 12.67	W 103 50 9.00
Proj. to BH	20375.00	90.79	359.63	9931.10	10840.88	10834.84	361.87	0.00	455939.49			

Survey Type:

Def Survey

Survey Error Model: ISCWISA 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	28.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20.375'
	1	28.500	28.500	Act Shns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20.375'
	1	28.500	9997.600	Act Shns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD
	1	9997.600	20375.000	Act Shns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD

Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Nimitz MDP1 12 Federal 9H Field: NM Eddy County (NAD 83) Structure: Oxy Nimitz MDP1 12 Federal 9H

Gravity & Magnetic Parameters

Model: MOG 2016 Dip: 58.877° Date: 30-Apr-2018
MagDec: 6.925° PB: 63021.57147 Gravity PS: 980.431mga (J.80085 Base)

Surface Location

NAD83 New Mexico State Plane, Eastern Zone, US Feet
Lat: N 32 13 25.87 Northing: 44325.38816 Grid Zone: 6.3848°
Long: W 103 50 13.80 Easting: 694798.089126 Scale Fact: 0.98883605

Miscellaneous

Oxy Nimitz MDP1 12 TVD Ref: R03=06.37(251.828 above BSL)
Oxy Nimitz MDP1 12 Federal 9H Rev2 APS 02May18
Oxy Nimitz MDP1 12 Federal 9H Bottom Port

Grid
True
Mag

Grid North
Tot Corr (M->G 6.660°)
Mag Dec (6.925°)
Grid Conv (0.265°)

