

Oxy Nimitz MDP1 12 Federal 2H Gyro+MWD 0-20,424' Survey Geodetic Report

(Def Survey)

30-015-44580



Report Date: May 30, 2018 - 09:25 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Nimitz MDP1 12 Federal 2H / Oxy Nimitz MDP1 12 Federal 2H
 Well: Oxy Nimitz MDP1 12 Federal 2H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44580
 Survey Name: Oxy Nimitz MDP1 12 Federal 2H Gyro+MWD 0-20,424'
 Survey Date: May 15, 2018
 Tort / AHD / DDI / ERD Ratio: 190.667' / 11085.541 ft / 6.630' / 1.095
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 13' 28.10364", W 103° 50' 14.01251"
 Location Grid N/E Y/X: N 445549.240 NUS, E 694750.860 NUS
 CRS Grid Convergence Angle: 0.2645°
 Grid Scale Factor: 0.99993605
 Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 357.101° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3518.100 ft above MSL
 Seabed / Ground Elevation: 3491.600 ft above MSL
 Magnetic Declination: 6.921°
 Total Gravity Field Strength: 998.4310mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48016.832 nT
 Magnetic Dip Angle: 59.975°
 Declination Date: May 15, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.2645°
 Total Corr Mag North→Grid: 6.6564°
 North: Well Head
 Local Coord Referenced To: Well Head

**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 (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	445549.24	694750.86	N 32° 13' 26.10"	W 103° 50' 14.01"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445549.24	694750.86	N 32° 13' 26.10"	W 103° 50' 14.01"
	80.41	0.23	225.13	80.41	-0.07	-0.08	-0.08	0.43	445549.16	694750.78	N 32° 13' 26.10"	W 103° 50' 14.01"
	172.79	0.43	229.22	172.79	-0.41	-0.43	-0.47	0.22	445548.81	694750.39	N 32° 13' 26.10"	W 103° 50' 14.02"
	265.34	0.50	233.11	265.34	-0.85	-0.90	-1.06	0.08	445548.34	694749.80	N 32° 13' 26.09"	W 103° 50' 14.02"
	357.77	0.36	245.04	357.78	-1.18	-1.27	-1.64	0.18	445547.97	694749.22	N 32° 13' 26.09"	W 103° 50' 14.03"
	450.32	0.43	267.22	450.31	-1.29	-1.41	-2.25	0.18	445547.83	694748.61	N 32° 13' 26.09"	W 103° 50' 14.04"
	542.80	0.85	274.63	542.78	-1.20	-1.37	-3.28	0.46	445547.87	694747.58	N 32° 13' 26.09"	W 103° 50' 14.05"
	635.32	0.13	261.33	635.30	-1.12	-1.33	-4.07	0.78	445547.91	694746.79	N 32° 13' 26.09"	W 103° 50' 14.06"
	727.88	0.02	180.15	727.88	-1.15	-1.36	-4.17	0.14	445547.88	694746.69	N 32° 13' 26.09"	W 103° 50' 14.06"
	820.40	0.04	205.06	820.38	-1.19	-1.41	-4.19	0.03	445547.83	694746.67	N 32° 13' 26.09"	W 103° 50' 14.06"
	914.92	0.02	68.30	914.90	-1.22	-1.43	-4.19	0.06	445547.81	694746.67	N 32° 13' 26.09"	W 103° 50' 14.06"
	1009.44	0.02	60.35	1009.42	-1.20	-1.42	-4.16	0.00	445547.82	694746.70	N 32° 13' 26.09"	W 103° 50' 14.06"
	1104.03	0.02	25.65	1104.01	-1.18	-1.39	-4.14	0.01	445547.85	694746.72	N 32° 13' 26.09"	W 103° 50' 14.06"
	1198.70	0.04	23.77	1198.68	-1.14	-1.35	-4.12	0.02	445547.89	694746.74	N 32° 13' 26.09"	W 103° 50' 14.06"
	1293.48	0.04	21.50	1293.46	-1.08	-1.29	-4.09	0.00	445547.95	694746.77	N 32° 13' 26.09"	W 103° 50' 14.06"
	1388.01	0.03	32.43	1387.99	-1.03	-1.23	-4.06	0.01	445548.01	694746.80	N 32° 13' 26.09"	W 103° 50' 14.06"
	1482.68	0.06	37.26	1482.66	-0.97	-1.17	-4.02	0.03	445548.07	694746.84	N 32° 13' 26.09"	W 103° 50' 14.06"
	1577.47	0.05	41.37	1577.45	-0.90	-1.10	-3.96	0.01	445548.14	694746.90	N 32° 13' 26.09"	W 103° 50' 14.06"
	1672.11	0.04	8.13	1672.09	-0.84	-1.04	-3.93	0.03	445548.20	694746.93	N 32° 13' 26.09"	W 103° 50' 14.06"
	1766.89	0.05	17.17	1766.87	-0.77	-0.97	-3.92	0.01	445548.27	694746.95	N 32° 13' 26.09"	W 103° 50' 14.06"
	1861.60	0.03	353.60	1861.58	-0.71	-0.90	-3.91	0.03	445548.34	694746.95	N 32° 13' 26.09"	W 103° 50' 14.06"
	1956.38	0.03	318.97	1956.36	-0.66	-0.86	-3.92	0.02	445548.38	694746.94	N 32° 13' 26.10"	W 103° 50' 14.06"
	2051.09	0.03	187.83	2051.07	-0.67	-0.87	-3.94	0.06	445548.37	694746.92	N 32° 13' 26.10"	W 103° 50' 14.06"
	2145.87	0.03	186.22	2145.85	-0.71	-0.92	-3.95	0.00	445548.32	694746.91	N 32° 13' 26.09"	W 103° 50' 14.06"
	2240.73	0.03	175.34	2240.71	-0.76	-0.97	-3.95	0.01	445548.27	694746.91	N 32° 13' 26.09"	W 103° 50' 14.06"
	2335.35	0.03	162.28	2335.33	-0.81	-1.01	-3.94	0.01	445548.23	694746.92	N 32° 13' 26.09"	W 103° 50' 14.06"
	2429.84	0.03	170.61	2429.82	-0.86	-1.06	-3.93	0.00	445548.18	694746.93	N 32° 13' 26.09"	W 103° 50' 14.06"
	2524.26	0.03	158.77	2524.24	-0.91	-1.11	-3.92	0.01	445548.13	694746.94	N 32° 13' 26.09"	W 103° 50' 14.06"
	2619.09	0.04	138.21	2619.07	-0.96	-1.16	-3.89	0.02	445548.08	694746.97	N 32° 13' 26.09"	W 103° 50' 14.06"
	2713.87	0.03	169.15	2713.85	-1.01	-1.21	-3.88	0.02	445548.03	694747.00	N 32° 13' 26.09"	W 103° 50' 14.06"
	2808.65	0.01	194.69	2808.63	-1.04	-1.24	-3.86	0.02	445548.00	694747.00	N 32° 13' 26.09"	W 103° 50' 14.06"
	2903.00	0.03	134.91	2902.98	-1.07	-1.26	-3.84	0.03	445547.98	694747.02	N 32° 13' 26.09"	W 103° 50' 14.06"
	2997.42	0.01	118.19	2997.40	-1.09	-1.28	-3.82	0.02	445547.96	694747.04	N 32° 13' 26.09"	W 103° 50' 14.06"
	3091.88	0.01	107.91	3091.86	-1.10	-1.29	-3.80	0.00	445547.95	694747.06	N 32° 13' 26.09"	W 103° 50' 14.06"
	3186.29	0.08	305.31	3186.27	-1.06	-1.26	-3.85	0.09	445547.98	694747.01	N 32° 13' 26.09"	W 103° 50' 14.06"
	3280.70	0.09	298.67	3280.68	-0.98	-1.18	-3.97	0.01	445548.06	694746.89	N 32° 13' 26.09"	W 103° 50' 14.06"
	3375.21	0.07	270.64	3375.19	-0.94	-1.15	-4.09	0.05	445548.09	694746.77	N 32° 13' 26.09"	W 103° 50' 14.06"
	3469.45	0.10	225.04	3469.43	-0.99	-1.20	-4.20	0.08	445548.04	694746.66	N 32° 13' 26.09"	W 103° 50' 14.06"
	3564.10	0.11	255.26	3564.08	-1.06	-1.28	-4.35	0.06	445547.96	694746.51	N 32° 13' 26.09"	W 103° 50' 14.06"
	3658.58	0.08	249.28	3658.56	-1.10	-1.33	-4.50	0.03	445547.91	694746.38	N 32° 13' 26.09"	W 103° 50' 14.06"
	3753.10	0.11	252.13	3753.08	-1.15	-1.38	-4.65	0.03	445547.86	694746.21	N 32° 13' 26.09"	W 103° 50' 14.07"
	3942.10	0.07	232.34	3942.08	-1.26	-1.51	-4.91	0.03	445547.73	694745.95	N 32° 13' 26.09"	W 103° 50' 14.07"
	4036.38	0.03	281.35	4036.36	-1.28	-1.54	-4.98	0.06	445547.70	694745.88	N 32° 13' 26.09"	W 103° 50' 14.07"
	4130.85	0.05	332.25	4130.83	-1.24	-1.50	-5.03	0.04	445547.74	694745.83	N 32° 13' 26.09"	W 103° 50' 14.07"
	4225.27	0.02	316.31	4225.25	-1.19	-1.45	-5.06	0.03	445547.79	694745.80	N 32° 13' 26.09"	W 103° 50' 14.07"
	4319.76	0.02	65.28	4319.74	-1.17	-1.43	-5.05	0.03	445547.81	694745.81	N 32° 13' 26.09"	W 103° 50' 14.07"
	4414.26	0.07	91.86	4414.24	-1.17	-1.43	-4.98	0.06	445547.81	694745.88	N 32° 13' 26.09"	W 103° 50' 14.07"
	4508.82	0.05	85.00	4508.80	-1.17	-1.42	-4.88	0.02	445547.82	694745.98	N 32° 13' 26.09"	W 103° 50' 14.07"
	4603.44	0.04	79.03	4603.42	-1.17	-1.41	-4.81	0.01	445547.83	694746.05	N 32° 13' 26.09"	W 103° 50' 14.07"
	4698.25	0.03	62.41	4698.23	-1.15	-1.40	-4.75	0.01	445547.84	694746.11	N 32° 13' 26.09"	W 103° 50' 14.07"
	4792.91	0.04	67.93	4792.89	-1.13	-1.37	-4.70	0.01	445547.87	694746.16	N 32° 13' 26.09"	W 103° 50' 14.07"
	4887.45	0.05	59.20	4887.43	-1.10	-1.34	-4.63	0.01	445547.90	694746.23	N 32° 13' 26.09"	W 103° 50' 14.07"
	4981.84	0.04	55.01	4981.82	-1.07	-1.30	-4.57	0.01	445547.94	694746.29	N 32° 13' 26.09"	W 103° 50' 14.07"
	5076.38	0.04	55.51	5076.36	-1.03	-1.26	-4.52	0.00	445547.98	694746.34	N 32° 13' 26.09"	W 103° 50' 14.07"
	5171.00	0.02	65.48	5170.98	-1.01	-1.24	-4.48	0.02	445548.00	694746.38	N 32° 13' 26.09"	W 103° 50' 14.06"
	5265.60	0.30	2.10	5265.58	-0.75	-0.98	-4.45	0.31	445548.26	694746.41	N 32° 13' 26.09"	W 103° 50' 14.06"
	5360.37	1.09	322.22	5360.34	0.23	-0.02	-4.99	0.93	445549.22	694745.87	N 32° 13' 26.10"	W 103° 50' 14.07"
	5454.98	1.87	305.82	5454.92	1.84	1.59	-6.80	0.93	445550.83	694744.06	N 32° 13' 26.12"	W 103° 50' 14.09"
	5549.57	2.74	300.98	5549.43	4.16	3.68	-9.99	0.94	445552.90	694740.87	N 32° 13' 26.14"	W 103° 50' 14.13"
	5644.33	3.30	294.81	5644.06	6.69	5.97	-14.41	0.68	445555.21	694736.46	N 32° 13' 26.16"	W 103° 50' 14.18"
	5739.08	3.80	293.11	5738.63	9.34	8.35	-19.77	0.54	445557.59	694731.09	N 32° 13' 26.19"	W 103° 50' 14.24"
	5833.87	4.00	292.26	5833.20	12.12	10.83	-25.72	0.22	445560.07	694725.14	N 32° 13' 26.21"	W 103° 50' 14.31"
	5928.66	4.47	291.04	5927.73	15.02	13.41	-32.22	0.50	445562.65	694718.64	N 32° 13' 26.24"	W 103° 50' 14.39"
	6023.38	5.04	291.62	6022.12	18.25	16.27	-39.54	0.60	445565.51	694711.32	N 32° 13' 26.27"	W 103° 50' 14.47"
	6118.10	6.12	293.66	6116.39	22.23	19.83	-48.03	1.16	445569.07	694702.83	N 32° 13' 26.30"	W 103° 50' 14.57"
	6212.94	7.65	299.07	6210.55	27.84	24.93	-58.18	1.75	445574.16	694692.68	N 32° 13' 26.35"	W 103° 50' 14.69"
	6307.71	9.25	302.78	6304.29	35.62	32.12	-70.10	1.78	445581.35	694680.77	N 32° 13' 26.42"	W 103° 50' 14.83"
	6402.12	10.55	303.36	6397.29	45.16	40.98	-83.70	1.38	445590.21	694667.17	N 32° 13' 26.51"	W 103° 50' 14.98"
	6496.73	10.18	301.36	6490.35	54.99	50.09	-98.07	0.55	445599.33	694652.80	N 32° 13' 26.59"	W 103° 50' 15.15"
	6591.20	9.04	299.74	6583.50	63.69	58.12	-111.64	1.24	445607.35	694639.22	N 32° 13' 26.68"	W 103° 50' 15.31"
	6685.56	8.71	297.85	6687.73	71.34	65.13	-124.40	0.47	445614.37	694626.47	N 32° 13' 26.75"	W 103° 50' 15.46"
	6780.16	7.85	295.78	6770.34	78.10	71.29	-136.55	0.96	445620.52	694614.32	N 32° 13' 26.82"	W 103° 50' 15.60"
	6874.93	6.94	294.84	6864.32	83.87	76.50	-147.57	0.97				

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)
	7348.29	5.88	280.13	7335.05	102.04	92.32	-194.50	0.52	445641.55	694556.27	N 32 13 27.03	W 103 50 16.27
	7443.03	5.50	276.88	7429.32	103.90	93.71	-203.88	0.53	445642.94	694546.99	N 32 13 27.04	W 103 50 16.38
	7537.66	5.47	272.78	7523.52	105.12	94.47	-212.89	0.41	445643.71	694537.88	N 32 13 27.05	W 103 50 16.49
	7632.20	4.92	287.40	7617.67	106.87	95.90	-221.28	0.41	445644.58	694528.81	N 32 13 27.06	W 103 50 16.58
	7727.01	4.82	309.54	7712.15	111.07	99.65	-228.21	1.97	445645.14	694519.79	N 32 13 27.07	W 103 50 16.66
	7821.75	4.93	317.11	7806.55	116.87	105.17	-234.05	0.69	445645.89	694510.78	N 32 13 27.08	W 103 50 16.73
	7916.59	5.25	316.58	7901.01	123.29	111.31	-239.81	0.34	445646.54	694501.77	N 32 13 27.09	W 103 50 16.80
	8011.28	4.63	314.84	7895.35	129.42	117.15	-245.50	0.87	445647.22	694492.76	N 32 13 27.10	W 103 50 16.86
	8106.06	4.31	311.77	8089.84	134.75	122.22	-250.87	0.42	445647.91	694483.75	N 32 13 27.11	W 103 50 16.93
	8200.87	6.06	294.96	8184.07	139.58	126.70	-258.05	2.43	445648.60	694474.74	N 32 13 27.12	W 103 50 17.01
	8295.41	7.32	272.08	8278.18	142.45	129.03	-268.61	3.08	445649.29	694465.73	N 32 13 27.13	W 103 50 17.13
	8390.00	7.47	264.91	8371.98	142.73	128.70	-280.76	0.99	445649.98	694456.72	N 32 13 27.14	W 103 50 17.27
	8484.67	8.32	270.32	8465.78	142.88	128.19	-293.74	1.19	445650.67	694447.71	N 32 13 27.15	W 103 50 17.42
	8579.23	7.87	287.04	8559.39	145.48	130.13	-306.77	2.53	445651.36	694438.70	N 32 13 27.16	W 103 50 17.58
	8673.60	6.58	306.38	8653.02	151.10	135.23	-317.31	2.90	445652.05	694429.69	N 32 13 27.17	W 103 50 17.70
	8768.01	7.06	308.07	8746.76	158.41	142.09	-326.17	0.61	445652.74	694420.68	N 32 13 27.18	W 103 50 17.80
	8862.47	7.72	310.67	8840.44	166.66	148.89	-335.48	0.73	445653.43	694411.67	N 32 13 27.19	W 103 50 17.91
	8956.92	7.44	315.61	8934.06	175.62	158.39	-344.57	0.75	445654.12	694402.66	N 32 13 27.20	W 103 50 18.02
	9051.26	6.78	314.11	9027.68	184.25	166.62	-352.83	0.75	445654.81	694393.65	N 32 13 27.21	W 103 50 18.11
	9145.72	8.74	314.72	9121.27	193.62	175.54	-361.93	2.10	445655.50	694384.64	N 32 13 27.22	W 103 50 18.22
	9240.39	10.81	313.84	9214.56	205.40	186.75	-373.44	2.19	445656.19	694375.63	N 32 13 27.23	W 103 50 18.35
	9334.92	11.13	313.57	9307.36	218.47	198.18	-386.44	0.34	445656.88	694366.62	N 32 13 27.24	W 103 50 18.50
	9429.74	9.63	314.33	9400.63	230.93	211.03	-398.75	1.59	445657.57	694357.61	N 32 13 27.25	W 103 50 18.64
	9524.56	7.91	314.81	9494.34	241.58	221.17	-409.05	1.82	445658.26	694348.60	N 32 13 27.26	W 103 50 18.76
	9619.44	16.23	333.15	9587.07	258.56	237.64	-419.69	9.55	445658.95	694339.59	N 32 13 27.27	W 103 50 18.89
	9714.14	22.40	335.65	9676.40	287.48	265.91	-433.12	6.57	445659.64	694330.58	N 32 13 27.28	W 103 50 19.04
	9811.95	30.28	346.87	9764.04	329.18	306.99	-446.44	9.50	445660.33	694321.57	N 32 13 27.29	W 103 50 19.19
	9866.00	34.51	350.65	9809.67	357.82	335.39	-452.03	8.67	445661.02	694312.56	N 32 13 27.30	W 103 50 19.26
	9960.00	45.88	351.47	9881.35	418.06	395.23	-461.39	12.11	445661.71	694303.55	N 32 13 27.31	W 103 50 19.38
	10055.00	56.38	353.38	9940.89	491.67	468.45	-471.03	11.16	445662.40	694294.54	N 32 13 27.32	W 103 50 19.47
	10149.00	65.60	354.20	9986.43	573.65	550.09	-479.89	9.84	445663.09	694285.53	N 32 13 27.33	W 103 50 19.57
	10244.00	75.52	354.32	10018.01	663.02	639.11	-488.84	10.44	445663.78	694276.52	N 32 13 27.34	W 103 50 19.67
	10338.00	75.07	355.72	10041.87	753.87	729.68	-496.73	1.52	445664.47	694267.51	N 32 13 27.35	W 103 50 19.76
	10432.00	78.49	359.21	10063.37	845.35	821.08	-500.76	5.13	445665.16	694258.50	N 32 13 27.36	W 103 50 19.80
	10527.00	89.55	0.52	10073.25	939.58	915.41	-500.97	11.72	445665.85	694249.49	N 32 13 27.37	W 103 50 19.79
	10587.00	89.86	359.83	10073.56	999.49	975.41	-500.78	1.26	445666.54	694240.48	N 32 13 27.38	W 103 50 19.79
	10686.00	90.17	358.79	10073.54	1098.41	1074.40	-501.98	1.10	445667.23	694231.47	N 32 13 27.39	W 103 50 19.80
	10780.00	89.31	358.40	10073.96	1192.38	1168.37	-504.28	1.00	445667.92	694222.46	N 32 13 27.40	W 103 50 19.82
	10875.00	88.07	357.98	10076.13	1287.34	1263.30	-507.28	1.38	445668.61	694213.45	N 32 13 27.41	W 103 50 19.85
	11064.00	88.25	359.52	10082.20	1476.15	1452.15	-511.40	0.82	445669.30	694204.44	N 32 13 27.42	W 103 50 19.89
	11159.00	88.35	0.57	10085.02	1570.89	1547.10	-511.33	1.11	445670.00	694195.43	N 32 13 27.43	W 103 50 19.88
	11348.00	88.38	359.39	10090.41	1759.67	1736.02	-511.39	0.62	445670.69	694186.42	N 32 13 27.44	W 103 50 19.87
	11538.00	87.76	359.30	10096.81	1949.41	1925.90	-513.56	0.33	445671.38	694177.41	N 32 13 27.45	W 103 50 19.89
	11632.00	87.97	359.49	10100.32	2043.27	2019.83	-514.55	0.30	445672.07	694168.40	N 32 13 27.46	W 103 50 19.89
	11727.00	87.69	359.69	10103.91	2138.11	2114.76	-515.23	0.36	445672.76	694159.39	N 32 13 27.47	W 103 50 19.90
	11822.00	87.80	0.31	10107.65	2232.92	2209.69	-515.23	0.66	445673.45	694150.38	N 32 13 27.48	W 103 50 19.90
	12011.00	88.25	359.42	10114.16	2421.58	2398.57	-515.68	0.53	445674.14	694141.37	N 32 13 27.49	W 103 50 19.89
	12106.00	88.80	359.40	10116.61	2516.48	2493.54	-516.66	0.58	445674.83	694132.36	N 32 13 27.50	W 103 50 19.89
	12200.00	89.38	0.60	10118.10	2610.34	2587.52	-516.66	1.42	445675.52	694123.35	N 32 13 27.51	W 103 50 19.88
	12295.00	89.86	359.69	10118.73	2705.20	2682.52	-516.42	1.08	445676.21	694114.34	N 32 13 27.52	W 103 50 19.88
	12390.00	89.52	359.74	10119.25	2800.10	2777.51	-516.89	0.36	445676.90	694105.33	N 32 13 27.53	W 103 50 19.87
	12484.00	89.48	0.54	10120.07	2893.97	2871.51	-516.66	0.85	445677.59	694096.32	N 32 13 27.54	W 103 50 19.87
	12579.00	90.07	359.67	10120.44	2988.83	2966.51	-516.49	1.11	445678.28	694087.31	N 32 13 27.55	W 103 50 19.87
	12674.00	90.03	0.75	10120.36	3083.69	3061.51	-516.14	1.14	445678.97	694078.30	N 32 13 27.56	W 103 50 19.86
	12768.00	90.10	359.54	10120.25	3177.56	3155.50	-515.90	1.29	445679.66	694069.29	N 32 13 27.57	W 103 50 19.85
	12862.00	89.90	359.34	10120.25	3271.48	3249.50	-516.82	0.30	445680.35	694060.28	N 32 13 27.58	W 103 50 19.85
	12957.00	90.72	359.75	10119.74	3366.39	3344.49	-517.57	0.97	445681.04	694051.27	N 32 13 27.59	W 103 50 19.86
	13051.00	90.07	360.00	10119.09	3460.28	3438.49	-517.78	0.74	445681.73	694042.26	N 32 13 27.60	W 103 50 19.85
	13240.00	89.76	359.52	10119.37	3554.17	3528.48	-518.57	0.59	445682.42	694033.25	N 32 13 27.61	W 103 50 19.86
	13335.00	90.31	359.60	10119.31	3648.07	3622.48	-519.30	0.33	445683.11	694024.24	N 32 13 27.62	W 103 50 19.86
	13524.00	89.69	359.63	10119.31	3741.96	3716.47	-520.03	0.56	445683.80	694015.23	N 32 13 27.63	W 103 50 19.87
	13618.00	90.00	359.20	10119.56	3835.85	3810.47	-520.76	0.51	445684.49	694006.22	N 32 13 27.64	W 103 50 19.87
	13807.00	89.79	0.14	10119.91	3929.74	3904.47	-521.53	0.25	445685.18	693997.21	N 32 13 27.65	W 103 50 19.85
	13996.00	90.24	0.26	10119.86	4023.63	4000.47	-522.32	0.21	445685.87	693988.20	N 32 13 27.66	W 103 50 19.83
	14185.00	89.86	0.37	10119.70	4117.52	4087.47	-523.11	0.25	445686.56	693979.19	N 32 13 27.67	W 103 50 19.83
	14279.00	89.90	359.67	10119.69	4211.41	4174.47	-523.90	0.75	445687.25	693970.18	N 32 13 27.68	W 103 50 19.82
	14469.00	89.79	359.92	10120.41	4305.30	4261.47	-524.69	0.14	445687.94	693961.17	N 32 13 27.69	W 103 50 19.82
	14564.00	90.03	0.25	10120.56	4400.19	4354.47	-525.48	0.43	445688.63	693952.16	N 32 13 27.70	W 103 50 19.81
	14658.00	89.42	359.53	10121.01	4494.08	4447.47	-526.27	1.00	445689.32	693943.15	N 32 13 27.71	W 103 50 19.81
	14752.00	89.69	359.70	10121.74	4587.97	4540.47	-527.06	0.34	445690.01	693934.14	N 32 13 27.72	W 103 50 19.82
	14846.00	89.86	0.07	10122.48	4681.86	4633.47	-527.85	0.21	445690.70	693925.13	N 32 13 27.73	W 103 50 19.81
	15131.00	89.86	0.41	10122.95	4775.75	4726.47	-528.64	0.18	445691.39	693916.12	N 32 13 27.74	W 103 50 19.79
	15320.00	90.17	359.11	10123.90	4869.64	4817.47	-529.43	0.71	445692.08	693907.11	N 32 13 27.75	W 103 50 19.79
	15415.00	89.31	359.00	10123.33	4963.53	4909.47	-530.22	0.91	445692.77	693898.10	N 32 13 27.76	W 103 50 19.80
	15510.00	90.28	358.89	10123.67	5057.42	5001.47	-531.01	1.03	445693.46	693889.09	N 32 13 27.77	W 103 50 19.82
	15604.00											

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 ° ' ")
Proj. to Bit	20424.00	90.45	358.82	10115.34	10825.24	10811.02	-554.91	0.00	456359.54	694195.99	N 32 15 13.10	W 103 50 19.89

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	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 Nimitz MDP1 12 Federal 2H Gyro+MWD 0-20.424'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 2H Gyro+MWD 0-20.424'
	1	26.500	9811.950	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Nimitz MDP1 12 Federal 2H Gyro+MWD
	1	9811.950	20424.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Nimitz MDP1 12 Federal 2H Gyro+MWD

Schlumberger

OXY



Borehole:

Well:

Field:

Structure:

Original Borehole

Oxy Nimitz MDP1 12 Federal 2H

NM Eddy County (NAD 83)

Oxy Nimitz MDP1 12 Federal 2H

Gravity & Magnetic Parameters

Model: MD08 2018 Dip: 89.87° Date: 15-Apr-2018
 MagDec: 6.921° PB: 49016.822mT Gravity PB: 989.431mg (J.000000 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

Lat: N 32 13 26.19 Northing: 443548.340138
 Lon: W 103 00 14.91 Easting: 694780.300138

Miscellaneous

Shot: Oxy Nimitz MDP1 12 TVD Ref: RCH-06.57(2516.18 above WBL)
 Plan: Oxy Nimitz MDP1 12 Federal 2H Rev1 APS 11Apr18

Oxy Nimitz MDP1 12 Federal 2H Rev1 APS 11Apr18

Oxy Nimitz MDP1 12 Federal 2H Gyro-MWD 0-20,424'

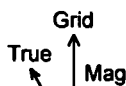
Oxy Nimitz MDP1 12 Federal 2H Gyro-MWD 0-11,675'

Nimitz MDP1 12 Federal 2H PBM
 Nimitz MDP1 12 Federal 2H Bottom Port

Oxy Nimitz MDP1 12 Federal 2H Gyro-MWD 0-20,424'

Proj. to Bit
 20424 MD 10115 TVD
 90.45° Incl 358.82° az
 N=10811 E=-555
 Final MWD Survey
 20384 MD 10116 TVD
 90.45° Incl 358.82° az
 N=10771 E=-554

Bottom Port Cross
 20274 MD 10117 TVD
 90.66° Incl 359.18° az
 N=10661 E=-552



Grid North
 Tot Corr (M->G 6.656°)
 Mag Dec (6.921°)
 Grid Conv (0.265°)

