

Oxy Nimitz MDP1 12 Federal Com 6H Gyro+MWD 0-19,787' Survey Geodetic Report (Def Survey)

30-015-44528



Report Date: June 08, 2018 - 05:19 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Nimitz MDP1 12 Federal Com 6H / Oxy Nimitz MDP1 12 Federal Com 6H
Well: Oxy Nimitz MDP1 12 Federal Com 6H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44528
Survey Name: Oxy Nimitz MDP1 12 Federal Com 6H Gyro+MWD 0-19,787'
Survey Date: May 09, 2018
Tort / AHD / DDI / ERD Ratio: 271.347' / 10346.616 ft / 6.736' / 1.015
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 34.26932", W 103° 49' 41.45207"
Location Grid N/E Y/X: N 446387.430 RUS, E 697543.900 RUS
CRS Grid Convergence Angle: 0.2694°
Grid Scale Factor: 0.99993704
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 1.299° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3552.500 ft above MSL
Seabed / Ground Elevation: 3526.000 ft above MSL
Magnetic Declination: 6.917°
Total Gravity Field Strength: 998.4284mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48019.955 nT
Magnetic Dip Angle: 59.976°
Declination Date: May 09, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.2694°
Total Corr Mag North->Grid
North: 6.8476°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 03 2018

RECEIVED

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 ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	446387.43	697543.90	N 32 13 34.27	W 103 49 41.45
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	446387.43	697543.90	N 32 13 34.27	W 103 49 41.45
	63.60	0.75	173.63	63.60	-0.24	-0.24	0.03	2.02	446387.19	697543.93	N 32 13 34.27	W 103 49 41.45
	126.20	0.10	283.11	126.20	-0.64	-0.64	0.02	1.26	446388.79	697543.92	N 32 13 34.26	W 103 49 41.45
	220.20	0.25	236.09	220.20	-0.74	-0.73	-0.23	0.21	446386.70	697543.67	N 32 13 34.26	W 103 49 41.45
	314.30	0.46	240.31	314.29	-1.05	-1.03	-0.73	0.22	446386.40	697543.17	N 32 13 34.26	W 103 49 41.46
	408.30	0.51	249.54	408.29	-1.40	-1.37	-1.45	0.10	446386.06	697542.45	N 32 13 34.26	W 103 49 41.47
	502.30	0.49	256.03	502.29	-1.66	-1.61	-2.23	0.06	446385.82	697541.67	N 32 13 34.25	W 103 49 41.48
	596.40	0.52	270.50	596.38	-1.77	-1.70	-3.05	0.14	446385.73	697540.85	N 32 13 34.25	W 103 49 41.49
	690.40	0.44	252.32	690.38	-1.90	-1.81	-3.82	0.18	446385.62	697540.08	N 32 13 34.25	W 103 49 41.50
	784.40	0.39	247.65	784.38	-2.14	-2.04	-4.46	0.06	446385.39	697539.44	N 32 13 34.25	W 103 49 41.50
	878.60	0.30	246.13	878.58	-2.37	-2.26	-4.98	0.10	446385.17	697538.92	N 32 13 34.25	W 103 49 41.51
	947.20	0.06	253.21	947.18	-2.46	-2.35	-5.18	0.35	446385.08	697538.72	N 32 13 34.25	W 103 49 41.51
	1041.70	0.08	241.51	1041.68	-2.51	-2.39	-5.28	0.03	446385.04	697538.62	N 32 13 34.25	W 103 49 41.51
	1136.10	0.07	251.52	1136.08	-2.56	-2.44	-5.40	0.02	446384.99	697538.50	N 32 13 34.25	W 103 49 41.52
	1230.50	0.09	243.02	1230.48	-2.62	-2.49	-5.52	0.02	446384.94	697538.38	N 32 13 34.24	W 103 49 41.52
	1325.00	0.11	237.81	1324.98	-2.70	-2.57	-5.66	0.02	446384.86	697538.24	N 32 13 34.24	W 103 49 41.52
	1419.40	0.11	234.40	1419.38	-2.81	-2.68	-5.81	0.01	446384.75	697538.09	N 32 13 34.24	W 103 49 41.52
	1513.80	0.10	232.31	1513.78	-2.91	-2.78	-5.95	0.01	446384.65	697537.95	N 32 13 34.24	W 103 49 41.52
	1608.20	0.10	229.64	1608.18	-3.02	-2.88	-6.08	0.00	446384.55	697537.82	N 32 13 34.24	W 103 49 41.52
	1702.50	0.10	219.04	1702.48	-3.14	-3.00	-6.19	0.02	446384.43	697537.71	N 32 13 34.24	W 103 49 41.52
	1796.90	0.09	227.34	1796.88	-3.26	-3.11	-6.30	0.02	446384.32	697537.60	N 32 13 34.24	W 103 49 41.53
	1891.20	0.10	220.76	1891.18	-3.37	-3.23	-6.41	0.02	446384.20	697537.49	N 32 13 34.24	W 103 49 41.53
	1987.00	0.10	210.32	1986.98	-3.51	-3.36	-6.50	0.02	446384.07	697537.40	N 32 13 34.24	W 103 49 41.53
	2079.90	0.10	209.98	2079.87	-3.65	-3.50	-6.59	0.00	446383.93	697537.31	N 32 13 34.23	W 103 49 41.53
	2174.30	0.09	205.34	2174.27	-3.79	-3.64	-6.66	0.01	446383.79	697537.24	N 32 13 34.23	W 103 49 41.53
	2268.60	0.10	204.51	2268.57	-3.93	-3.78	-6.72	0.01	446383.65	697537.18	N 32 13 34.23	W 103 49 41.53
	2363.00	0.10	201.42	2362.97	-4.09	-3.93	-6.79	0.01	446383.50	697537.11	N 32 13 34.23	W 103 49 41.53
	2457.40	0.07	228.72	2457.37	-4.20	-4.05	-6.86	0.05	446383.38	697537.04	N 32 13 34.23	W 103 49 41.53
	2551.80	0.09	207.94	2551.77	-4.31	-4.15	-6.94	0.04	446383.28	697536.96	N 32 13 34.23	W 103 49 41.53
	2646.30	0.10	190.13	2646.27	-4.46	-4.30	-6.99	0.03	446383.13	697536.81	N 32 13 34.23	W 103 49 41.53
	2740.70	0.09	195.17	2740.67	-4.61	-4.45	-7.02	0.01	446382.98	697536.68	N 32 13 34.23	W 103 49 41.53
	2835.10	0.10	208.54	2835.07	-4.75	-4.60	-7.08	0.03	446382.83	697536.52	N 32 13 34.22	W 103 49 41.53
	2929.40	0.10	207.03	2929.37	-4.90	-4.74	-7.16	0.00	446382.69	697536.34	N 32 13 34.22	W 103 49 41.54
	3023.80	0.05	212.14	3023.77	-5.01	-4.85	-7.22	0.05	446382.58	697536.18	N 32 13 34.22	W 103 49 41.54
	3118.20	0.15	276.95	3118.17	-5.03	-4.87	-7.36	0.14	446382.56	697536.04	N 32 13 34.22	W 103 49 41.54
	3212.50	0.32	261.50	3212.47	-5.07	-4.89	-7.75	0.19	446382.54	697536.15	N 32 13 34.22	W 103 49 41.54
	3306.90	0.36	258.13	3306.87	-5.18	-4.99	-8.30	0.05	446382.44	697535.60	N 32 13 34.22	W 103 49 41.55
	3401.30	0.40	254.50	3401.27	-5.34	-5.14	-8.90	0.05	446382.29	697535.00	N 32 13 34.22	W 103 49 41.56
	3495.70	0.36	233.85	3495.67	-5.82	-5.41	-9.48	0.15	446382.02	697534.44	N 32 13 34.22	W 103 49 41.56
	3590.30	0.24	222.49	3590.27	-5.95	-5.73	-9.84	0.14	446381.70	697533.97	N 32 13 34.21	W 103 49 41.57
	3684.60	0.09	144.93	3684.57	-6.18	-5.93	-9.93	0.25	446381.50	697533.97	N 32 13 34.21	W 103 49 41.57
	3779.00	0.08	81.18	3778.97	-6.20	-5.98	-9.82	0.10	446381.45	697533.08	N 32 13 34.21	W 103 49 41.57
	3873.40	0.09	94.25	3873.37	-6.20	-5.98	-9.68	0.02	446381.45	697534.22	N 32 13 34.21	W 103 49 41.57
	3967.80	0.09	83.53	3967.77	-6.19	-5.98	-9.53	0.02	446381.45	697534.37	N 32 13 34.21	W 103 49 41.56
	4062.20	0.14	94.60	4062.18	-6.19	-5.98	-9.34	0.06	446381.45	697534.56	N 32 13 34.21	W 103 49 41.56
	4164.90	0.12	80.32	4164.86	-6.17	-5.97	-9.11	0.04	446381.46	697534.79	N 32 13 34.21	W 103 49 41.56
	4259.30	0.17	263.27	4259.26	-6.17	-5.97	-9.15	0.31	446381.46	697534.79	N 32 13 34.21	W 103 49 41.56
	4353.60	0.41	117.71	4353.56	-6.34	-6.14	-8.99	0.59	446381.29	697534.91	N 32 13 34.21	W 103 49 41.56
	4448.10	1.47	97.94	4448.05	-6.63	-6.47	-7.49	1.16	446380.96	697536.41	N 32 13 34.21	W 103 49 41.54
	4542.50	2.18	97.02	4542.40	-6.95	-6.85	-4.51	0.75	446380.58	697539.39	N 32 13 34.20	W 103 49 41.50
	4636.90	2.82	96.83	4636.71	-7.36	-7.35	-0.42	0.68	446380.08	697543.48	N 32 13 34.20	W 103 49 41.46
	4731.00	2.44	96.89	4730.71	-7.78	-7.86	3.86	0.40	446379.57	697547.76	N 32 13 34.19	W 103 49 41.41
	4825.30	0.15	297.97	4824.98	-7.92	-8.05	5.75	2.74	446379.38	697549.65	N 32 13 34.19	W 103 49 41.39
	4919.60	0.13	263.71	4919.28	-7.87	-8.00	5.53	0.09	446379.43	697549.43	N 32 13 34.19	W 103 49 41.39
	5013.90	0.08	268.00	5013.58	-7.89	-8.02	5.36	0.05	446379.42	697549.26	N 32 13 34.19	W 103 49 41.39
	5108.20	0.11	129.99	5107.88	-7.95	-8.08	5.36	0.19	446379.35	697549.26	N 32 13 34.19	W 103 49 41.39
	5202.60	0.11	150.84	5202.28	-8.09	-8.21	5.48	0.04	446379.22	697549.38	N 32 13 34.19	W 103 49 41.39
	5297.00	0.11	144.81	5296.68	-8.24	-8.37	5.57	0.01	446379.06	697549.47	N 32 13 34.19	W 103 49 41.39
	5391.40	0.09	148.29	5391.08	-8.37	-8.50	5.68	0.02	446378.93	697549.56	N 32 13 34.18	W 103 49 41.39
	5485.70	0.13	141.77	5485.38	-8.52	-8.65	5.77	0.04	446378.78	697549.67	N 32 13 34.18	W 103 49 41.39
	5580.00	0.11	141.57	5579.68	-8.67	-8.81	5.89	0.02	446378.62	697549.79	N 32 13 34.18	W 103 49 41.38
	5674.30	0.11	162.78	5673.98	-8.83	-8.96	5.97	0.04	446378.47	697549.87	N 32 13 34.18	W 103 49 41.38
	5768.70	0.13	135.61	5768.38	-8.99	-9.13	6.08	0.06	446378.30	697549.98	N 32 13 34.18	W 103 49 41.38
	5863.20	0.11	126.04	5862.88	-9.11	-9.28	6.22	0.03	446378.17	697550.12	N 32 13 34.18	W 103 49 41.38
	5957.60	0.10	129.23	5957.28	-9.21	-9.36	6.36	0.01	446378.07	697550.26	N 32 13 34.18	W 103 49 41.38
	6052.00	0.10	128.71	6051.68	-9.32	-9.47	6.49	0.00	446377.97	697550.39	N 32 13 34.18	W 103 49 41.38
	6146.30	1.02	161.66	6145.98	-10.16	-10.31	6.82	0.99	446377.12	697550.72	N 32 13 34.17	W 103 49 41.37
	6240.50	2.62	159.80	6240.13	-12.95	-13.13	7.82	1.70	446374.30	697551.72	N 32 13 34.14	W 103 49 41.36
	6334.90	4.37	158.63	6334.35	-18.28	-18.50	9.88	1.86	446368.93	697553.78	N 32 13 34.09	W 103 49 41.34
	6429.40	5.88	159.85	6428.47	-26.10	-26.40	12.86	1.60	446361.03	697556.76	N 32 13 34.01	W 103 49 41.30
	6523.90	7.63	161.04	6522.31	-36.50	-36.88	16.57	1.86	446350.55	697560.47	N 32 13 33.90	W 103 49 41.26
	6618.20	7.24	153.22	6615.82	-47.61	-48.11	21.28	1.15	446339.33	697565.18	N 32 13 33.79	W 103 49 41.21
	6712.50	7.33	144.43	6709.36	-57.67	-58.30	27.45	1.18	446329.13	697571.35	N 32 13 33.69	W 103 49 41.14
	6806.90	7.28	129.59	6803.00	-68.19	-67.02	35.57	1.99	446320.42	697579.47	N 32 13 33.60	W 103 49 41

Comments	MD	Incl	Azin	Grd	TVD	VSEC	NS	EW	DLS	North	East	Long	Lat
	(m)	(°)	(°)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
7184.50	7184.50	7.43	111.67	7177.53	-98.82	-92.56	75.83	75.83	0.70	446294.87	697818.83	N 32 13 33.53 W	103 49 40.57
7278.90	7278.90	112.10	7271.16	7271.16	-95.06	-97.06	87.13	87.13	0.19	446290.37	697813.03	N 32 13 33.26 W	103 49 40.31
7373.20	7373.20	7.41	113.38	7364.68	-89.46	-101.72	88.23	88.23	0.24	446285.72	697814.13	N 32 13 33.26 W	103 49 40.18
7467.60	7467.60	7.40	113.34	7458.30	-104.03	-106.54	109.40	109.40	0.01	446280.90	697815.30	N 32 13 33.16 W	103 49 40.06
7561.90	7561.90	7.36	113.86	7551.82	-106.63	-111.39	120.50	120.50	0.08	446276.05	697816.39	N 32 13 33.16 W	103 49 39.93
7656.20	7656.20	7.22	114.92	7645.35	-113.26	-118.26	131.42	131.42	0.25	446271.15	697817.15	N 32 13 33.07 W	103 49 39.81
7750.70	7750.70	5.13	119.92	7739.30	-117.02	-120.25	140.78	140.78	0.25	446267.15	697818.15	N 32 13 33.05 W	103 49 39.75
7845.10	7845.10	2.83	124.55	7837.84	-118.94	-122.30	146.82	146.82	2.86	446263.11	697819.11	N 32 13 33.05 W	103 49 39.72
7939.50	7939.50	0.56	127.91	7937.94	-119.41	-122.82	149.60	149.60	2.20	446259.11	697820.11	N 32 13 33.05 W	103 49 39.72
8033.80	8033.80	1.64	129.12	8032.12	-120.14	-123.13	152.39	152.39	1.80	446255.11	697821.11	N 32 13 33.05 W	103 49 39.72
8128.20	8128.20	3.50	130.42	8126.42	-121.14	-124.13	155.19	155.19	1.80	446251.11	697822.11	N 32 13 33.05 W	103 49 39.72
8222.60	8222.60	5.42	131.67	8220.42	-122.14	-125.13	158.19	158.19	2.08	446247.11	697823.11	N 32 13 33.05 W	103 49 39.72
8316.90	8316.90	6.47	132.92	8314.42	-123.14	-126.13	161.19	161.19	2.25	446243.11	697824.11	N 32 13 33.05 W	103 49 39.72
8411.30	8411.30	6.89	134.17	8409.42	-124.14	-127.13	164.19	164.19	2.50	446239.11	697825.11	N 32 13 33.05 W	103 49 39.72
8505.70	8505.70	7.08	135.42	8503.42	-125.14	-128.13	167.19	167.19	2.75	446235.11	697826.11	N 32 13 33.05 W	103 49 39.72
8599.90	8599.90	6.91	136.67	8597.42	-126.14	-129.13	170.19	170.19	3.00	446231.11	697827.11	N 32 13 33.05 W	103 49 39.72
8694.30	8694.30	6.89	137.92	8692.42	-127.14	-130.13	173.19	173.19	3.25	446227.11	697828.11	N 32 13 33.05 W	103 49 39.72
8788.60	8788.60	7.12	139.17	8786.42	-128.14	-131.13	176.19	176.19	3.50	446223.11	697829.11	N 32 13 33.05 W	103 49 39.72
8883.00	8883.00	8.14	140.42	8881.42	-129.14	-132.13	179.19	179.19	3.75	446219.11	697830.11	N 32 13 33.05 W	103 49 39.72
8977.40	8977.40	8.36	141.67	8975.42	-130.14	-133.13	182.19	182.19	4.00	446215.11	697831.11	N 32 13 33.05 W	103 49 39.72
9071.80	9071.80	9.35	142.92	9069.42	-131.14	-134.13	185.19	185.19	4.25	446211.11	697832.11	N 32 13 33.05 W	103 49 39.72
9166.20	9166.20	14.82	144.16	9164.16	-132.14	-135.13	188.19	188.19	4.50	446207.11	697833.11	N 32 13 33.05 W	103 49 39.72
9260.60	9260.60	16.07	145.40	9258.40	-133.14	-136.13	191.19	191.19	4.75	446203.11	697834.11	N 32 13 33.05 W	103 49 39.72
9355.00	9355.00	16.07	146.65	9353.40	-134.14	-137.13	194.19	194.19	5.00	446199.11	697835.11	N 32 13 33.05 W	103 49 39.72
9449.40	9449.40	14.46	147.90	9447.40	-135.14	-138.13	197.19	197.19	5.25	446195.11	697836.11	N 32 13 33.05 W	103 49 39.72
9543.80	9543.80	3.31	149.15	9541.80	-136.14	-139.13	200.19	200.19	5.50	446191.11	697837.11	N 32 13 33.05 W	103 49 39.72
9638.20	9638.20	3.31	150.40	9636.20	-137.14	-140.13	203.19	203.19	5.75	446187.11	697838.11	N 32 13 33.05 W	103 49 39.72
9732.60	9732.60	30.65	147.74	9730.60	-138.14	-141.13	206.19	206.19	6.00	446183.11	697839.11	N 32 13 33.05 W	103 49 39.72
9827.00	9827.00	30.65	148.99	9825.00	-139.14	-142.13	209.19	209.19	6.25	446179.11	697840.11	N 32 13 33.05 W	103 49 39.72
9921.40	9921.40	34.98	149.24	9919.40	-140.14	-143.13	212.19	212.19	6.50	446175.11	697841.11	N 32 13 33.05 W	103 49 39.72
10015.80	10015.80	37.72	150.49	10013.80	-141.14	-144.13	215.19	215.19	6.75	446171.11	697842.11	N 32 13 33.05 W	103 49 39.72
10110.20	10110.20	46.71	151.74	10108.20	-142.14	-145.13	218.19	218.19	7.00	446167.11	697843.11	N 32 13 33.05 W	103 49 39.72
10204.60	10204.60	47.07	152.99	10202.60	-143.14	-146.13	221.19	221.19	7.25	446163.11	697844.11	N 32 13 33.05 W	103 49 39.72
10299.00	10299.00	53.22	154.24	10297.00	-144.14	-147.13	224.19	224.19	7.50	446159.11	697845.11	N 32 13 33.05 W	103 49 39.72
10393.40	10393.40	53.28	155.49	10391.40	-145.14	-148.13	227.19	227.19	7.75	446155.11	697846.11	N 32 13 33.05 W	103 49 39.72
10487.80	10487.80	59.42	156.74	10485.80	-146.14	-149.13	230.19	230.19	8.00	446151.11	697847.11	N 32 13 33.05 W	103 49 39.72
10582.20	10582.20	68.07	157.99	10580.20	-147.14	-150.13	233.19	233.19	8.25	446147.11	697848.11	N 32 13 33.05 W	103 49 39.72
10676.60	10676.60	80.42	159.24	10674.60	-148.14	-151.13	236.19	236.19	8.50	446143.11	697849.11	N 32 13 33.05 W	103 49 39.72
10771.00	10771.00	88.07	160.49	10769.00	-149.14	-152.13	239.19	239.19	8.75	446139.11	697850.11	N 32 13 33.05 W	103 49 39.72
10865.40	10865.40	90.48	161.74	10863.40	-150.14	-153.13	242.19	242.19	9.00	446135.11	697851.11	N 32 13 33.05 W	103 49 39.72
10959.80	10959.80	90.48	162.99	10957.80	-151.14	-154.13	245.19	245.19	9.25	446131.11	697852.11	N 32 13 33.05 W	103 49 39.72
11054.20	11054.20	90.48	164.24	11052.20	-152.14	-155.13	248.19	248.19	9.50	446127.11	697853.11	N 32 13 33.05 W	103 49 39.72
11148.60	11148.60	90.48	165.49	11146.60	-153.14	-156.13	251.19	251.19	9.75	446123.11	697854.11	N 32 13 33.05 W	103 49 39.72
11243.00	11243.00	80.93	166.74	11241.00	-154.14	-157.13	254.19	254.19	10.00	446119.11	697855.11	N 32 13 33.05 W	103 49 39.72
11337.40	11337.40	80.93	167.99	11335.40	-155.14	-158.13	257.19	257.19	10.25	446115.11	697856.11	N 32 13 33.05 W	103 49 39.72
11431.80	11431.80	69.69	169.24	11429.80	-156.14	-159.13	260.19	260.19	10.50	446111.11	697857.11	N 32 13 33.05 W	103 49 39.72
11526.20	11526.20	69.69	170.49	11524.20	-157.14	-160.13	263.19	263.19	10.75	446107.11	697858.11	N 32 13 33.05 W	103 49 39.72
11620.60	11620.60	69.69	171.74	11618.60	-158.14	-161.13	266.19	266.19	11.00	446103.11	697859.11	N 32 13 33.05 W	103 49 39.72
11715.00	11715.00	69.69	172.99	11713.00	-159.14	-162.13	269.19	269.19	11.25	446099.11	697860.11	N 32 13 33.05 W	103 49 39.72
11809.40	11809.40	69.69	174.24	11807.40	-160.14	-163.13	272.19	272.19	11.50	446095.11	697861.11	N 32 13 33.05 W	103 49 39.72
11903.80	11903.80	69.69	175.49	11901.80	-161.14	-164.13	275.19	275.19	11.75	446091.11	697862.11	N 32 13 33.05 W	103 49 39.72
12000.00	12000.00	69.69	176.74	11999.00	-162.14	-165.13	278.19	278.19	12.00	446087.11	697863.11	N 32 13 33.05 W	103 49 39.72
12094.40	12094.40	69.69	177.99	12092.40	-163.14	-166.13	281.19	281.19	12.25	446083.11	697864.11	N 32 13 33.05 W	103 49 39.72
12188.80	12188.80	69.69	179.24	12186.80	-164.14	-167.13	284.19	284.19	12.50	446079.11	697865.11	N 32 13 33.05 W	103 49 39.72
12283.20	12283.20	69.69	180.49	12281.20	-165.14	-168.13	287.19	287.19	12.75	446075.11	697866.11	N 32 13 33.05 W	103 49 39.72
12377.60	12377.60	69.69	181.74	12375.60	-166.14	-169.13	290.19	290.19	13.00	446071.11	697867.11	N 32 13 33.05 W	103 49 39.72
12472.00	12472.00	69.69	182.99	12470.00	-167.14	-170.13	293.19	293.19	13.25	446067.11	697868.11	N 32 13 33.05 W	103 49 39.72
12566.40	12566.40	69.69	184.24	12564.40	-168.14	-171.13	296.19	296.19	13.50	446063.11	697869.11	N 32 13 33.05 W	103 49 39.72
12660.80	12660.80	69.69	185.49	12658.80	-169.14	-172.13	299.19	299.19	13.75	446059.11	697870.11	N 32 13 33.05 W	103 49 39.72
12755.20	12755.20	69.69	186.74	12753.20	-170.14	-173.13	302.19	302.19	14.00	446055.11	697871.11	N 32 13 33.05 W	103 49 39.72
12849.60	12849.60	69.69	187.99	12847.60	-171.14	-174.13	305.19	305.19	14.25	446051.11	697872.11	N 32 13 33.05 W	103 49 39.72
12944.00	12944.00	69.69	189.24	12942.00	-172.14	-175.13	308.19	308.19	14.50	446047.11	697873.11	N 32 13 33.05 W	103 49 39.72
13038.40	13038.40	69.69	190.49	13036.40	-173.14	-176.13	311.19	311.19	14.75	446043.11	697874.11	N 32 13 33.05 W	103 49 39.72
13132.80	13132.80	69.69	191.74	13130.80	-174.14	-177.13	314.19	314.19	15.00	446039.11	697875.11	N 32 13 33.05 W	103 49 39.72
13227.20	13227.20	69.69	192.99	13225.20	-175.14	-178.13	317.19	317.19	15.25	446035.11	697876.11	N 32 13 33.05 W	103 49 39.72
13321.60	13321.60	69.69	194.24	13319.60	-176.14	-179.13	320.19	320.19	15.50	446031.11	697877.11	N 32 13 33.05 W	103 49 39.72
13416.00	13416.00	69.69	195.49	13414.00	-177.14	-180.13	323.19	323.19	15.75	446027.11	697878.11	N 32 13 33.05 W	103 49 39.72
13510.40	13510.40	69.69	196.74	13508.40	-178.14	-181.13	326.19	326.19	16.00	446023.11	697879.11	N 32 13 33.05 W	103 49 39.72

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 ° ' ")
	18130.00	90.62	359.20	10170.54	7887.52	7884.15	238.03	1.06	454271.07	697781.91	N 32 14 52.27	W 103 49 38.25
	18225.00	89.83	0.11	10170.17	7982.48	7979.14	237.46	1.27	454366.06	697781.34	N 32 14 53.21	W 103 49 38.25
	18320.00	90.86	0.83	10169.59	8077.46	8074.14	238.24	1.32	454461.04	697782.12	N 32 14 54.15	W 103 49 38.24
	18414.00	90.10	359.90	10168.81	8171.45	8168.13	238.84	1.28	454555.03	697782.72	N 32 14 55.08	W 103 49 38.22
	18509.00	89.00	359.85	10169.55	8266.41	8263.13	238.63	1.16	454650.02	697782.51	N 32 14 56.02	W 103 49 38.22
	18603.00	88.45	0.08	10171.65	8360.36	8357.10	238.57	0.63	454743.99	697782.46	N 32 14 56.95	W 103 49 38.22
	18698.00	88.56	0.07	10174.12	8455.31	8452.07	238.70	0.12	454838.95	697782.58	N 32 14 57.89	W 103 49 38.21
	18792.00	88.69	357.17	10176.38	8549.17	8546.01	236.43	3.09	454932.88	697780.32	N 32 14 58.82	W 103 49 38.23
	18887.00	88.21	357.81	10178.95	8643.92	8640.88	232.27	0.84	455027.75	697776.16	N 32 14 59.76	W 103 49 38.27
	19076.00	88.87	357.15	10183.76	8832.44	8829.63	223.97	0.49	455216.49	697767.85	N 32 15 1.63	W 103 49 38.36
	19170.00	88.56	358.11	10185.87	8926.22	8923.53	220.08	1.07	455310.38	697763.97	N 32 15 2.56	W 103 49 38.40
	19265.00	88.42	0.26	10188.38	9021.12	9018.48	218.73	2.27	455405.32	697762.62	N 32 15 3.50	W 103 49 38.41
	19454.00	89.97	359.92	10191.03	9210.05	9207.45	219.03	0.84	455594.29	697762.91	N 32 15 5.37	W 103 49 38.40
	19549.00	90.48	0.33	10190.66	9305.03	9302.45	219.23	0.69	455689.28	697763.12	N 32 15 6.31	W 103 49 38.39
	19643.00	90.10	360.00	10190.18	9399.01	9396.45	219.50	0.54	455783.27	697763.39	N 32 15 7.24	W 103 49 38.38
Final MWD	19738.00	89.93	359.37	10190.16	9493.97	9491.45	218.98	0.69	455878.26	697762.87	N 32 15 8.18	W 103 49 38.38
Survey	19738.00	89.93	359.37	10190.16	9493.97	9491.45	218.98	0.69	455878.26	697762.87	N 32 15 8.18	W 103 49 38.38
Proj. to Bit	19787.00	89.93	359.37	10190.22	9542.95	9540.45	218.44	0.00	455927.26	697762.33	N 32 15 8.66	W 103 49 38.39

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 Com 6H Gyro+MWD 0-19,787'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal Com 6H Gyro+MWD 0-19,787'
	1	26.500	10114.800	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Nimitz MDP1 12 Federal Com 6H
	1	10114.800	19787.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Nimitz MDP1 12 Federal Com 6H

...Original Borehole\Oxy Nimitz MDP1 12 Federal Com 6H Gyro+MWD 0-19,787'

Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Nimitz MDP1 12 Federal Com 6H Field: NM Eddy County (NAD 83) Structure: Oxy Nimitz MDP1 12 Federal Com 6H

Gravity & Magnetic Parameters

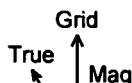
Model: MDOM 2018 Dip: 89.97° Date: 05-May-2018
MagDec: 6.917° PS: 42018.966nT Gravity PS: 998.428mgal (9.80665 Based)

Surface Location

NAD83 New Mexico State Plane, Eastern Zone, US Feet
Lat: N 32 13 34.37 Northing: 448387.437US Grid Conv: 0.2694°
Lon: W 103 48 41.48 Easting: 697843.91US Scale Fact: 0.9999704

Miscellaneous

Oxy Nimitz MDP1 12 Federal Com 6H
Slot: 12 Federal Com TVD Ref: RKB=26.5'(3882.8ft above MSL)
Plan: Oxy Nimitz MDP1 12 Federal Com 6H Rev2 ALS 15May18



Grid North
Tot Corr (M->G 6.648°)
Mag Dec (6.917°)
Grid Conv (0.269°)



Oxy Nimitz MDP1 12 Federal Com 6H Gyro-MWD 0-18,787

Proj. to Bit

19787 MD 10190 TVD

89.93° Incl 359.37° az

N=9540 E=218

Final MWD Survey

19738 MD 10190 TVD

89.93° Incl 359.37° az

N=9481 E=219

