

AUG 03 2018

30-015-44525

Schlumberger

Oxy Nimitz MDP1 13 Federal Com 3H Gyro+MWD 0-14,954' Survey
Geodetic Report
(Def Survey)



Report Date: June 28, 2018 - 01:30 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Nimitz MDP1 13 Federal Com 3H / Oxy Nimitz MDP1 13 Federal Com 3H
Well: Oxy Nimitz MDP1 13 Federal Com 3H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44525
Survey Name: Oxy Nimitz MDP1 13 Federal Com 3H Gyro+MWD 0-14,954'
Survey Date: June 20, 2018
Tori / AHD / DDI / ERD Ratio: 149.504' / 5017.959 n / 6 088 / 0 548
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 34.26933" W 103° 49' 41.80132"
Location Grid N/E Y/X: N 448387.310 NUS, E 697513.900 NUS
CRS Grid Convergence Angle: 0.2693°
Grid Scale Factor: 0.99993703
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 178.637° (Grid North)
Vertical Section Origin: 0 000 n, 0 000 h
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3552.800 R above MSL
Seasid / Ground Elevation: 3526.100 R above MSL
Magnetic Declination: 8.908°
Total Gravity Field Strength: 998.4284mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48008.552 nT
Magnetic Dip Angle: 59.972°
Declination Date: June 20, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.2693°
Total Corr Mag North→Grid North: 6.8370°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Asim Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	448387.31	697513.90	N 32° 13' 34.27" W 103° 49' 41.80"
BHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	0.00	448387.31	697513.90	N 32° 13' 34.27" W 103° 49' 41.80"
	100.00	0.27	2.17	100.00	-0.17	0.17	0.01	0.37	448387.48	697513.81	N 32° 13' 34.27" W 103° 49' 41.80"	
	200.00	0.36	353.71	200.00	-0.72	0.72	-0.02	0.10	448388.03	697513.88	N 32° 13' 34.28" W 103° 49' 41.80"	
	300.00	0.35	353.24	300.00	-1.34	1.34	-0.09	0.01	448388.65	697513.81	N 32° 13' 34.28" W 103° 49' 41.80"	
	400.00	0.35	348.27	399.99	-1.95	1.94	-0.19	0.03	448389.25	697513.71	N 32° 13' 34.29" W 103° 49' 41.80"	
	500.00	0.37	337.49	499.99	-2.55	2.54	-0.37	0.07	448389.85	697513.53	N 32° 13' 34.29" W 103° 49' 41.81"	
	600.00	0.37	331.65	599.99	-3.15	3.12	-0.65	0.04	448390.43	697513.25	N 32° 13' 34.30" W 103° 49' 41.81"	
	700.00	0.27	317.80	699.99	-3.63	3.58	-0.96	0.13	448390.89	697512.94	N 32° 13' 34.30" W 103° 49' 41.81"	
	800.00	0.09	308.27	799.99	-3.68	3.60	-1.18	0.18	448391.11	697512.72	N 32° 13' 34.31" W 103° 49' 41.81"	
	900.00	0.19	340.58	899.99	-4.07	4.00	-1.30	0.13	448391.31	697512.60	N 32° 13' 34.31" W 103° 49' 41.82"	
	1000.00	0.09	7.61	999.98	-4.82	4.75	-1.28	0.53	448392.06	697512.62	N 32° 13' 34.32" W 103° 49' 41.82"	
	1100.00	1.38	8.16	1099.97	-6.57	6.53	-1.03	0.67	448393.84	697512.87	N 32° 13' 34.33" W 103° 49' 41.81"	
	1200.00	1.88	8.20	1199.93	-9.38	9.33	-0.88	0.52	448400.22	697513.70	N 32° 13' 34.40" W 103° 49' 41.80"	
	1300.00	2.26	8.89	1299.88	-12.90	12.91	-0.20	0.39	448404.30	697514.48	N 32° 13' 34.44" W 103° 49' 41.79"	
	1400.00	2.57	12.32	1399.77	-16.98	17.05	0.58	0.34	448408.37	697515.13	N 32° 13' 34.48" W 103° 49' 41.78"	
	1500.00	2.10	5.25	1499.69	-20.95	21.00	1.23	0.55	448410.77	697515.12	N 32° 13' 34.50" W 103° 49' 41.78"	
	1600.00	0.09	343.47	1599.66	-23.35	23.47	1.22	1.48	448411.49	697514.82	N 32° 13' 34.51" W 103° 49' 41.78"	
	1700.00	0.22	315.71	1699.66	-24.08	24.18	0.82	0.51	448411.77	697514.57	N 32° 13' 34.51" W 103° 49' 41.79"	
	1800.00	0.21	320.60	1799.65	-24.38	24.48	0.87	0.02	448412.03	697514.34	N 32° 13' 34.51" W 103° 49' 41.79"	
	1900.00	0.19	315.81	1899.65	-24.65	24.72	0.44	0.03	448412.27	697514.09	N 32° 13' 34.52" W 103° 49' 41.80"	
	2000.00	0.20	313.83	1999.65	-24.90	24.96	0.19	0.01	448412.49	697513.84	N 32° 13' 34.52" W 103° 49' 41.80"	
	2100.00	0.19	310.40	2099.65	-25.15	25.19	-0.06	0.01	448412.71	697513.57	N 32° 13' 34.52" W 103° 49' 41.80"	
	2200.00	0.21	307.85	2199.65	-25.38	25.41	-0.33	0.02	448412.93	697513.30	N 32° 13' 34.52" W 103° 49' 41.81"	
	2300.00	0.19	309.51	2299.65	-25.61	25.62	-0.60	0.02	448413.14	697513.03	N 32° 13' 34.53" W 103° 49' 41.81"	
	2400.00	0.18	312.24	2399.65	-25.84	25.83	-0.85	0.01	448413.36	697512.81	N 32° 13' 34.53" W 103° 49' 41.81"	
	2500.00	0.19	312.37	2499.65	-26.07	26.05	-1.00	0.01	448413.59	697512.57	N 32° 13' 34.53" W 103° 49' 41.82"	
	2600.00	0.19	313.14	2599.65	-26.31	26.28	-1.33	0.00	448413.80	697512.31	N 32° 13' 34.53" W 103° 49' 41.82"	
	2700.00	0.20	309.35	2699.65	-26.54	26.49	-1.59	0.03	448414.00	697512.00	N 32° 13' 34.53" W 103° 49' 41.82"	
	2800.00	0.22	300.47	2799.65	-26.76	26.69	-1.90	0.03	448414.22	697511.63	N 32° 13' 34.54" W 103° 49' 41.83"	
	2900.00	0.27	302.07	2899.65	-27.00	26.91	-2.27	0.05	448414.49	697511.19	N 32° 13' 34.54" W 103° 49' 41.83"	
	3000.00	0.33	300.00	2999.65	-27.20	27.16	-2.71	0.06	448414.78	697510.63	N 32° 13' 34.54" W 103° 49' 41.84"	
	3100.00	0.39	298.03	3099.64	-27.62	27.47	-3.27	0.06	448415.06	697509.98	N 32° 13' 34.54" W 103° 49' 41.85"	
	3200.00	0.44	289.94	3199.64	-27.94	27.75	-3.94	0.07	448415.24	697509.16	N 32° 13' 34.55" W 103° 49' 41.85"	
	3300.00	0.51	278.42	3299.64	-28.17	27.94	-4.74	0.13	448415.25	697508.27	N 32° 13' 34.55" W 103° 49' 41.87"	
	3400.00	0.52	264.19	3399.63	-28.22	27.94	-5.63	0.11	448415.12	697507.43	N 32° 13' 34.55" W 103° 49' 41.88"	
	3500.00	0.45	257.80	3499.63	-28.14	27.81	-6.47	0.09	448414.97	697506.78	N 32° 13' 34.54" W 103° 49' 41.88"	
	3600.00	0.34	257.39	3599.63	-28.03	27.68	-7.14	0.11	448414.86	697506.00	N 32° 13' 34.54" W 103° 49' 41.89"	
	3700.00	0.25	258.56	3699.63	-27.98	27.55	-7.85	0.09	448414.83	697505.60	N 32° 13' 34.54" W 103° 49' 41.89"	
	3800.00	0.28	272.77	3799.63	-27.95	27.52	-8.10	0.07	448414.81	697505.34	N 32° 13' 34.54" W 103° 49' 41.90"	
	3900.00	0.25	260.70	3899.63	-27.95	27.50	-8.50	0.06	448414.76	697504.93	N 32° 13' 34.54" W 103° 49' 41.90"	
	4000.00	0.22	265.34	3999.62	-27.93	27.45	-8.97	0.04	448414.77	697504.53	N 32° 13' 34.54" W 103° 49' 41.91"	
	4100.00	0.24	277.28	4099.62	-27.96	27.48	-9.37	0.05	448414.84	697504.09	N 32° 13' 34.54" W 103° 49' 41.91"	
	4200.00	0.27	280.41	4199.62	-28.06	27.53	-9.81	0.03	448414.89	697503.61	N 32° 13' 34.54" W 103° 49' 41.92"	
	4300.00	0.29	271.42	4299.62	-28.13	27.58	-10.29	0.05	448414.90	697503.15	N 32° 13' 34.54" W 103° 49' 41.92"	
	4400.00	0.23	272.47	4399.62	-28.18	27.59	-10.75	0.06	448414.91	697502.76	N 32° 13' 34.54" W 103° 49' 41.93"	
	4500.00	0.22	271.20	4499.62	-28.21	27.61	-11.14	0.01	448414.92	697502.40	N 32° 13' 34.54" W 103° 49' 41.93"	
	4600.00	0.19	269.31	4599.62	-28.23	27.61	-11.50	0.03	448414.92	697502.08	N 32° 13' 34.54" W 103° 49' 41.94"	
	4700.00	0.18	270.66	4699.62	-28.25	27.61	-11.82	0.01	448414.79	697501.73	N 32° 13' 34.54" W 103° 49' 41.94"	
	4800.00	0.27	237.73	4799.62	-28.15	27.48	-12.18	0.15	448413.89	697501.39	N 32° 13' 34.53" W 103° 49' 41.95"	
	4900.00	0.79	181.68	4899.61	-27.37	26.68	-12.51	0.63	448411.67	697500.99	N 32° 13' 34.51" W 103° 49' 41.95"	
	5000.00	1.68	180.25	4999.59	-25.28	24.56	-12.91	0.89	448409.51	697500.23	N 32° 13' 34.48" W 103° 49' 41.96"	
	5100.00	2.27	191.59	5099.53	-21.97	21.21	-13.67	0.61	448404.21	697499.00	N 32° 13' 34.44" W 103° 49' 41.97"	
	5200.00	2.83	194.92	5199.43	-17.74	16.90	-14.81	0.58	448398.53	697497.83	N 32° 13' 34.38" W 103° 49' 41.99"	
	5300.00	3.89	193.68	5299.26	-12.10	11.22	-16.25	1.06	448390.17	697496.12	N 32° 13' 34.30" W 103° 49' 42.01"	
	5400.00	5.88	188.24	5398.89	-3.89	2.86	-17.78	2.04	448377.67	697494.73	N 32° 13' 34.18" W 103° 49' 42.03"	
	5500.00	8.34	185.17	5498.11	8.30	-9.44	-19.17	2.49	448361.63	697493.28	N 32° 13' 34.02" W 103° 49' 42.04"	
	5600.00	10.70	189.18	5596.80	24.23	-25.48	-20.62	1.68	448344.66	697491.85	N 32° 13' 33.85" W 103° 49' 42.06"	
	5700.00	9.64	184.28	5693.31	41.28	-42.65	-22.05	0.58	448328.30	697490.71	N 32° 13' 33.69" W 103° 49' 42.07"	
	5800.00	9.24	183.72	5793.95	57.55	-59.01	-23.19	0.41	448312.80	697489.78	N 32° 13' 33.53" W 103° 49' 42.09"	
	5900.00	8.63	183.13	5892.74	72.97	-74.51	-24.12	0.62	448297.87	697489.26	N 32° 13' 33.39" W 103° 49' 42.09"	
	6000.00	8.58	180.81	5991.62	87.85	-89.45	-24.84	0.35	448283.07	697489.45	N 32° 13' 33.24" W 103° 49' 42.09"	
	6100.00	8.47	177.71	6090.51	102.83	-104.25	-24.45	0.47	448268.52	697490.58	N 32° 13' 33.10" W 103° 49' 42.08"	
	6200.00	8.33	173.53	6189.44	117.23	-118.80	-23.34	0.83	448254.44	697493.07	N 32° 13' 32.98" W 103° 49' 42.05"	
	6300.00	8.15	168.18	6288.41	131.43	-132.88	-20.83	1.07	448241.23	697497.36	N 32° 13' 32.82" W 103° 49' 42.00"	
	6400.00	7.86	157.69	6387.44	144.87	-148.09	-16.54	1.22	448229.38	697503.27	N 32° 13' 32.71" W 103° 49' 41.85"	
	6500.00	7.40	149.00	6486.56	157.04	-157.94	-10.63	1.24	448218.86	697510.11	N 32° 13' 32.60" W 103° 49' 41.85"	
	6600.00	7.03	144.84	6585.77	167.95	-168.45	-3.79	0.64	448208.60	697517.09	N 32° 13' 32.50" W 103° 49' 41.87"	
	6700.00	7.23	148.73	6684.99	178.61	-178.73	3.19	0.31	448198.10	697523.83	N 32° 13' 32.40" W 103° 49' 41.70"	
	6800.00	7.10	147.86	6784.21	189.48	-189.22	9.93	0.19	448177.84	697530.74	N 32° 13' 32.20" W 103° 49' 41.62"	
	6900.00	7.13	144.29	6883.44	200.14	-199.49	18.84	0.27	448166.22	697545.10	N 32° 13' 32.00" W 103° 49' 41.53"	
	7000.00	7.20	142.20	6982.68	210.95	-209.48	24.30	0.44	448158.54	697554.44	N 32° 13' 32.01" W 103° 49' 41.34"	
	7100.00	7.14	138.67	7081.88	220.82	-219.10	32.25	0.42	448149.62	697562.80	N	

[illegible]

Drilling Office 2.10.720.0

...Original BoreholeOxy Nimitz MDP 1 13 Federal Com 3H Gyro+MWD 0-14.954
Schlumberger-Private

6/28/2018 1:31 PM Page 2 of 2

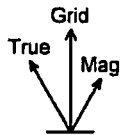
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Nimitz MDP1 13 Federal Com 3H	NM Eddy County (NAD 83)	Oxy Nimitz MDP1 13 Federal Com 3H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	MDGM 2018	Dip:	53.912°	Date:	20-Jun-2018	Lat:	N 32 11 34.37	Northing:	448327.311US	Grid Conv:	0.2697
MagnDec:	6.906°	FB:	48028.552nT	Gravity FB:	998.428m/s² (9.80665 m/s²)	Lon:	W 103 48 41.83	Easting:	637613.976US	Scale Fact:	0.99997205
								Dry Nimitz MDP1 13 Federal Com 3H Plan: Dry Nimitz MDP1 13 Federal Com 3H Rev2 APS 21Jun18			



Grid North
 Tot Corr (M→G 6.637°)
 Mag Dec (6.906°)
 Grid Conv (0.269°)

