

Oilfield Services, Central U.S. Unit
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

NM OIL CONSERVATION
ARTESIA DISTRICT

Schlumberger

SEP 27 2018

RECEIVED

30-015-44581

Well Reference:

13, 24S, 30E, EDDY NM
N 32.22385 W 103.83717

I, RYLAND MATTHEWS certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 02, 2018 through May 15, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 10050.00 feet to a depth of 20336.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA INCORPORATED for the Nimitz MDP1 12 Federal 9H Well (Original Hole) API No. 30-015-44581 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.



RYLAND MATTHEWS
FF

Subscribed and Sworn to before me this 20th day of September (month) 2018 (yr)

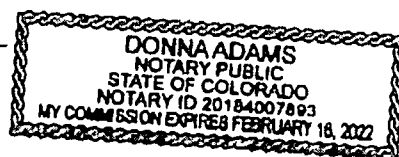
My Commission expires:

2-16-2018

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)





Schlumberger

Oxy Nimitz MDP 1 12 Federal 9H Gyro+MWD 0-20.375' Survey Geodetic

Report (Def Survey)

Report Date: May 24, 2018 - 04:37 PM
Client: OXY
Location: NM Eddy County (UAD 83)
Structure / Shot: Oxy Nimitz MDP 1 12 Federal 9H / Oxy Nimitz MDP 1 12 Federal 9H
Well: Oxy Nimitz MDP 1 12 Federal 9H
Borehole: Original Borehole
UWI / ADP: Uniform / 20 015-44591
Survey Name: Oxy Nimitz MDP 1 12 Federal 9H Gyro+MWD 0-20.375'
Survey Date: April 30, 2018
Tent / ABD / ODS / END Ratio: 254.316 +/- 11178 993 N / 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' 13.80187"
Location Grid NE V/L: N 445525 360 NUS, E 634769 060 NUS
CRS Grid Convergence Angle: 0.2648°
Grid Scale Factor: 0.99935605
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / (Ludvik)
Vertical Section Azimuth: 1.915° (Grid North)
Vertical Section Origin: 0.000 N, 0.000 N
TYD Reference Datum: RND=25.5'
TYD Reference Elevation: 3518.800 ft above MSL
Sediment / Ground Elevation: 3482.200 ft above MSL
Magnetic Declination: 6.935°
Total Gravity Field Strength: 998.430mgal (9.80665 Bacon)
Gravity Model: GRTM
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: 0.2648°
Total Cor Mag North-Grid: 0.6601°
Local Coord Referenced To: Well Head

Comments	MD	Incl	Align	Grid	TYD	VSEC	NS	EW	DLS	Heading	Easting	Latitude	Longitude	Remarks	
														WGS-84	UTM
SHL	20.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445525.36	634769.06	N 32 13 25.87 W 103 50 13.80			
	75.20	0.12	64.92	0.02	75.50	0.02	0.05	0.05	0.25	445525.36	634769.11	N 32 13 25.87 W 103 50 13.80			
	107.80	0.17	117.75	0.01	107.80	-0.42	0.00	0.26	0.16	445525.36	634769.32	N 32 13 25.87 W 103 50 13.80			
	260.20	0.46	170.30	-0.42	260.20	-0.42	-0.43	0.44	0.09	445524.83	634769.56	N 32 13 25.87 W 103 50 13.80			
	352.70	0.47	180.79	-1.16	352.70	-1.16	-1.18	0.50	0.22	445524.18	634769.56	N 32 13 25.87 W 103 50 13.80			
	445.30	0.27	163.83	-1.76	445.30	-1.77	-1.77	0.48	0.36	445523.59	634769.42	N 32 13 25.87 W 103 50 13.80			
	537.80	0.25	210.01	-2.15	537.79	-2.15	-2.17	0.21	0.22	445523.19	634769.20	N 32 13 25.87 W 103 50 13.80			
	630.20	0.07	247.32	-2.35	630.28	-2.35	-2.35	0.14	0.07	445522.92	634769.20	N 32 13 25.87 W 103 50 13.80			
	722.80	0.07	194.30	-2.43	722.79	-2.43	-2.44	0.08	0.05	445522.60	634769.14	N 32 13 25.87 W 103 50 13.80			
	810.00	0.10	218.70	-2.55	815.90	-2.55	-2.56	-0.01	0.02	445522.03	634769.05	N 32 13 25.87 W 103 50 13.80			
	1005.00	0.09	218.08	-2.67	1004.90	-2.67	-2.67	-0.10	0.02	445522.03	634769.05	N 32 13 25.87 W 103 50 13.80			
	1099.60	0.09	213.58	-2.77	1099.50	-2.77	-2.78	-0.29	0.02	445522.48	634768.96	N 32 13 25.87 W 103 50 13.80			
	1194.40	0.08	220.44	-2.88	1194.35	-2.88	-2.89	-0.39	0.02	445522.97	634768.77	N 32 13 25.87 W 103 50 13.81			
	1289.20	0.06	224.21	-3.10	1289.19	-3.10	-3.09	-0.47	0.01	445523.19	634768.52	N 32 13 25.87 W 103 50 13.81			
	1383.70	0.06	219.41	-3.19	1383.69	-3.19	-3.17	-0.54	0.02	445523.48	634768.34	N 32 13 25.87 W 103 50 13.81			
	1478.40	0.09	226.54	-3.17	1478.38	-3.17	-3.15	-0.62	0.03	445523.21	634768.15	N 32 13 25.87 W 103 50 13.81			
	1672.10	0.10	226.42	-2.95	1667.79	-2.95	-2.95	-0.82	0.00	445522.78	634767.92	N 32 13 25.87 W 103 50 13.81			
	1857.60	0.11	224.05	-2.77	1852.59	-2.77	-2.77	-0.91	0.01	445522.80	634767.69	N 32 13 25.87 W 103 50 13.81			
	1952.10	0.10	223.70	-2.62	1942.99	-2.62	-2.62	-1.09	0.02	445522.80	634767.46	N 32 13 25.87 W 103 50 13.81			
	2046.80	0.06	223.52	-2.48	2040.78	-2.48	-2.48	-1.16	0.01	445522.86	634767.23	N 32 13 25.87 W 103 50 13.81			
	2141.60	0.06	216.67	-2.63	2141.59	-2.63	-2.63	-1.31	0.01	445522.86	634767.01	N 32 13 25.87 W 103 50 13.81			
	2236.40	0.06	223.89	-2.68	2236.39	-2.68	-2.68	-1.43	0.02	445522.86	634766.78	N 32 13 25.87 W 103 50 13.81			
	2329.40	0.07	228.57	-2.77	2329.39	-2.77	-2.77	-1.52	0.02	445522.86	634766.54	N 32 13 25.87 W 103 50 13.81			
	2424.40	0.09	223.38	-2.87	2424.39	-2.87	-2.87	-1.63	0.00	445522.86	634766.31	N 32 13 25.87 W 103 50 13.81			
	2519.80	0.08	227.78	-3.06	2519.79	-3.06	-3.06	-1.80	0.02	445522.86	634766.08	N 32 13 25.87 W 103 50 13.81			
	2615.20	0.08	227.31	-3.16	2614.79	-3.16	-3.10	-1.93	0.05	445522.86	634765.85	N 32 13 25.87 W 103 50 13.82			
	2709.70	0.09	227.00	-3.26	2709.69	-3.26	-3.22	-2.04	0.10	445522.10	634765.62	N 32 13 25.87 W 103 50 13.82			
	2804.70	0.14	242.86	-3.28	2804.69	-3.28	-3.21	-2.10	0.06	445522.10	634765.39	N 32 13 25.87 W 103 50 13.82			
	2900.00	0.08	242.86	-3.13	2900.00	-3.13	-3.00	-2.20	0.08	445522.56	634765.16	N 32 13 25.87 W 103 50 13.82			
	3000.50	0.12	242.86	-2.89	3000.49	-2.89	-2.88	-2.32	0.10	445522.56	634764.93	N 32 13 25.87 W 103 50 13.82			
	3102.30	0.09	242.86	-2.89	3101.99	-2.89	-2.88	-2.45	0.08	445522.48	634764.70	N 32 13 25.87 W 103 50 13.82			
	3205.30	0.05	242.86	-2.87	3205.29	-2.87	-2.88	-2.57	0.02	445522.48	634764.47	N 32 13 25.87 W 103 50 13.82			
	3308.30	0.05	242.86	-2.87	3307.69	-2.87	-2.88	-2.68	0.02	445522.48	634764.24	N 32 13 25.87 W 103 50 13.82			
	3411.30	0.05	242.86	-2.87	3410.51	-2.87	-2.88	-2.79	0.10	445522.48	634764.01	N 32 13 25.87 W 103 50 13.82			
	3514.30	0.08	242.86	-2.87	3513.20	-2.87	-2.88	-2.90	0.08	445522.48	634763.78	N 32 13 25.87 W 103 50 13.82			
	3617.30	0.14	242.86	-2.87	3616.19	-2.87	-2.88	-3.01	0.06	445522.48	634763.55	N 32 13 25.87 W 103 50 13.82			
	3720.30	0.04	242.86	-2.87	3719.00	-2.87	-2.88	-3.12	0.08	445522.48	634763.32	N 32 13 25.87 W 103 50 13.82			
	3823.30	0.04	242.86	-2.87	3822.00	-2.87	-2.88	-3.23	0.08	445522.48	634763.09	N 32 13 25.87 W 103 50 13.82			
	3926.30	0.08	242.86	-2.87	3925.00	-2.87	-2.88	-3.34	0.10	445522.48	634762.86	N 32 13 25.87 W 103 50 13.82			
	4029.30	0.10	242.86	-2.87	4028.00	-2.87	-2.88	-3.45	0.05	445522.48	634762.63	N 32 13 25.87 W 103 50 13.82			
	4132.00	0.10	242.86	-2.87	4131.00	-2.87	-2.88	-3.56	0.05	445522.48	634762.40	N 32 13 25.87 W 103 50 13.82			
	4235.00	0.11	242.86	-2.87	4234.00	-2.87	-2.88	-3.67	0.00	445522.48	634762.17	N 32 13 25.87 W 103 50 13.82			
	4338.00	0.09	242.86	-2.87	4337.00	-2.87	-2.88	-3.78	0.04	445522.48	634761.94	N 32 13 25.87 W 103 50 13.82			
	4441.00	0.08	242.86	-2.87	4440.00	-2.87	-2.88	-3.89	0.04	445522.48	634761.71	N 32 13 25.87 W 103 50 13.82			
	4544.00	0.13	242.86	-2.87	4543.00	-2.87	-2.88	-4.00	0.07	445522.48	634761.48	N 32 13 25.87 W 103 50 13.82			
	4647.00	0.13	242.86	-2.87	4646.00	-2.87	-2.88	-4.11	0.07	445522.48	634761.25	N 32 13 25.87 W 103 50 13.82			
	4750.00	0.18	242.86	-2.87	4749.00	-2.87	-2.88	-4.22	0.10	445522.48	634761.02	N 32 13 25.87 W 103 50 13.82			
	4853.00	0.10	242.86	-2.87	4852.00	-2.87	-2.88	-4.33	0.06	445522.48	634760.79	N 32 13 25.87 W 103 50 13.82			
	4956.00	0.10	242.86	-2.87	4955.00	-2.87	-2.88	-4.44	0.06	445522.48	634760.56	N 32 13 25.87 W 103 50 13.82			
	5059.00	0.13	242.86	-2.87	5058.00	-2.87	-2.88	-4.55	0.05	445522.48	634760.33	N 32 13 25.87 W 103 50 13.82			
	5162.00	0.08	242.86	-2.87	5161.00	-2.87	-2.88	-4.66	0.06	445522.48	634760.10	N 32 13 25.87 W 103 50 13.82			
	5265.00	0.08	242.86	-2.87	5264.00	-2.87	-2.88	-4.77	0.06	445522.48	634759.87	N 32 13 25.87 W 103 50 13.82			
	5368.00	0.04	242.86	-2.87	5367.00	-2.87	-2.88	-4.88	0.04	445522.48	634759.64	N 32 13 25.87 W 103 50 13.82			
	5471.00	0.11	242.86	-2.87	5470.00	-2.87	-2.88	-4.99	0.01	445522.48	634759.41	N 32 13 25.87 W 103 50 13.82			
	5574.00	0.11	242.86	-2.87	5573.00	-2.87	-2.88	-5.10	0.01	445522.48	634759.18	N 32 13 25.87 W 103 50 13.82			
	5677.00	0.09	242.86	-2.87	5676.00	-2.87	-2.88	-5.21	0.01	445522.48	634758.95	N 32 13 25.87 W 103 50 13.82			
	5780.00	0.12	242.86	-2.87	5779.00	-2.87	-2.88	-5.32	0.04	445522.48	634758.72	N 32 13 25.87 W 103 50 13.82			
	5883.00	0.12	242.86	-2.87	5882.00	-2.87	-2.88	-5.43	0.04	445522.48	634758.49	N 32 13 25.87 W 103 50 13.82			
	5986.00	0.13	242.86	-2.87	5985.00	-2.87	-2.88	-5.54	0.02	445522.48	634758.26	N 32 13 25.87 W 103 50 13.82			
	6089.00	0.29	104.37	-2.90	6088.00	-2.90	-2.90	-5.65	2.30	445522.48	634758.03	N 32 13 25.87 W 103 50 13.82			
	6192.00	5.43	68.89	-2.90	6191.00	-2.90	-2.90	-5.76	2.34	445522.48	634757.80	N 32 13 25.87 W 103 50 13.82			
	6295.00	7.63	68.89	-2.90	6294.00	-2.90	-2.90	-5.87	2.34	445522.48	634757.57	N 32 13 25.87 W 103 50 13.82			
	6398.00	9.65	68.89	-2.90	6397.00	-2.90	-2.90	-5.98	2.34	445522.48	634757.34	N 32 13 25.87 W 103 50 13.82			
	6501.00	9.65	68.89	-2.90	6500.00	-2.90	-2.90	-6.09	2.34	445522.48	634757.11	N 32 13 25.87 W 103 50 13.82			
	6604.00	9.65	68.89	-2.90	6603.00	-2.90	-2.90	-6.20	2.34	445522.48	634756.88	N 32 13 25.87 W 103 50 13.82			
	6707.00	9.65	68.89	-2.90	6706.00	-2.90	-2.90	-6.31	2.34	445522.48	634756.65	N 32 13 25.87 W 103 50 13.82			
	6810.00	9.65	68.89	-2.90	6809.00	-2.90	-2.90	-6.42	2.34	445522.48	634756.42	N 32 13 25.87 W 103 50 13.82			
	6913.00	9.65	68.89	-2.90	6912.00	-2.90	-2.90	-6.53	2.34	445522.48	634756.19	N 32 13 25.87 W 103 50 13.82			
	7016.00	9.65	68.89	-2.90	7015.00	-2.90	-2.90	-6.64	2.34	445522.48	634755.96	N 32 13 25.87 W 103 50 13.82			
</															

Comments	MD	Incl	Azim	Grd	TWD	VSEC	NS	EW	DLS	Monthing	Existing	Latitude	Longitude
	7343.00	7.00	72.32		7332.99	62.50	57.60	140.00	17.60	4455.92	6341.00	N 32 13 26.47 W 103 50 11.24	9 02
	7438.70	7.01	62.18		7427.08	65.50	60.47	151.43	1.28	4455.84	6340.20	N 32 13 26.47 W 103 50 11.80	9 02
	7533.40	7.18	68.15		7521.06	66.80	61.45	163.07	0.80	4455.86	6340.43	N 32 13 26.45 W 103 50 11.78	9 02
	7622.90	7.05	94.82		7614.83	66.84	61.15	174.76	0.88	4455.96	6340.55	N 32 13 26.45 W 103 50 11.63	9 02
	7722.70	7.11	97.88		7708.81	66.54	59.65	180.36	0.42	4455.85	6340.66	N 32 13 26.43 W 103 50 11.50	9 02
	7812.50	6.60	98.05		7803.02	64.83	60.26	197.64	0.44	4455.83	6340.77	N 32 13 26.43 W 103 50 11.37	9 02
	8008.90	6.68	102.51		7993.16	63.00	60.25	208.65	0.50	4455.81	6340.87	N 32 13 26.40 W 103 50 11.24	9 02
	8101.60	6.63	68.83		8085.13	61.12	62.40	218.82	0.14	4455.78	6340.99	N 32 13 26.39 W 103 50 11.12	9 02
	8186.30	5.84	33.70		8179.30	68.81	60.88	230.50	4.39	4455.86	6350.07	N 32 13 26.46 W 103 50 11.00	9 02
	8291.10	4.65	350.95		8272.73	78.55	60.69	240.25	4.22	4455.94	6350.07	N 32 13 26.46 W 103 50 11.13	9 02
	8385.70	4.77	335.63		8368.00	81.30	78.39	238.00	1.36	4456.01	6350.07	N 32 13 26.46 W 103 50 11.06	9 02
	8480.30	4.74	336.87		8462.27	91.37	83.57	234.64	0.11	4456.02	6350.07	N 32 13 26.46 W 103 50 11.07	9 02
	8574.80	4.58	10.40		8556.48	88.84	90.87	237.24	2.95	4456.12	6350.07	N 32 13 26.46 W 103 50 11.07	9 02
	8669.20	4.51	68.38		8650.59	105.82	87.34	233.99	2.70	4456.22	6350.07	N 32 13 26.46 W 103 50 11.07	9 02
	8703.60	4.51	68.38		8694.70	109.87	101.60	243.20	1.97	4456.28	6350.12	N 32 13 26.46 W 103 50 10.97	9 02
	8858.10	5.31	70.88		8838.65	112.83	104.51	250.74	0.84	4456.28	6350.12	N 32 13 26.46 W 103 50 10.88	9 02
	8952.50	8.65	77.01		8932.74	115.70	107.07	260.17	1.56	4456.32	6350.22	N 32 13 26.46 W 103 50 10.77	9 02
	9048.80	12.99	70.38		9028.31	119.42	110.59	267.20	2.41	4456.34	6350.41	N 32 13 26.45 W 103 50 10.63	9 02
	9141.40	10.98	68.18		9119.42	125.85	118.32	287.20	2.48	4456.41	6350.42	N 32 13 26.45 W 103 50 10.45	9 02
	9236.00	12.99	67.01		9211.96	123.82	123.82	305.34	2.16	4456.48	6350.72	N 32 13 27.08 W 103 50 10.24	9 02
	9330.70	23.55	67.50		9301.76	146.27	125.23	332.70	11.15	4456.60	6351.01	N 32 13 27.19 W 103 50 9 92	9 02
	9425.40	32.89	68.04		9395.15	168.46	156.11	372.11	10.92	4456.81	6351.41	N 32 13 27.39 W 103 50 9 46	9 02
	9520.30	34.98	69.64		9484.09	188.49	190.78	411.44	13.65	4457.16	6351.80	N 32 13 27.74 W 103 50 9 40	9 02
	9616.20	34.05	16.88		9542.34	252.21	237.74	430.75	13.85	4457.63	6352.11	N 32 13 28.74 W 103 50 8 71	9 02
	9700.80	37.41	356.43		9619.19	207.00	292.42	442.80	12.98	4458.17	6352.11	N 32 13 28.74 W 103 50 8 67	9 02
	9804.50	36.45	356.04		9693.81	304.92	350.45	438.88	1.13	4458.75	6352.08	N 32 13 29.87 W 103 50 8 67	9 02
	9903.10	47.04	354.77		9768.15	401.34	417.09	430.66	8.76	4459.42	6352.02	N 32 13 29.87 W 103 50 8 77	9 02
	9997.60	51.88	359.54		9827.71	452.75	468.65	420.11	6.22	4460.12	6351.98	N 32 13 30.68 W 103 50 8 77	9 02
	10060.00	55.18	1.00		9858.92	544.81	471.09	420.11	7.04	4460.56	6351.98	N 32 13 31.01 W 103 50 8 77	9 02
	10145.00	67.72	2.05		9884.24	628.09	500.73	430.58	13.24	4460.90	6352.01	N 32 13 31.02 W 103 50 8 76	9 02
	10229.00	82.02	4.30		9927.81	718.74	704.51	437.67	18.44	4462.29	6352.01	N 32 13 32.82 W 103 50 8 67	9 02
	10319.00	88.42	3.08		9974.69	830.25	805.75	440.57	5.29	4463.09	6352.12	N 32 13 34.51 W 103 50 8 67	9 02
	10411.00	91.20	356.55		9938.10	1000.15	1065.63	442.28	1.83	4464.01	6352.12	N 32 13 34.51 W 103 50 8 68	9 02
	10501.00	91.27	356.52		9954.60	1271.56	1257.42	444.36	2.80	4465.90	6352.31	N 32 13 36.30 W 103 50 8 56	9 02
	10592.00	91.03	356.82		9970.87	1554.32	1546.05	442.96	0.95	4467.82	6352.02	N 32 13 38.78 W 103 50 8 56	9 02
	10682.00	90.03	356.85		9989.24	1847.95	1840.80	433.22	0.17	4469.71	6352.02	N 32 13 40.78 W 103 50 8 56	9 02
	10777.00	90.03	356.88		9987.72	1947.95	1940.80	427.81	0.46	4470.66	6351.98	N 32 13 42.02 W 103 50 8 74	9 02
	11171.00	91.48	356.68		9975.12	1742.84	1728.50	417.42	0.07	4471.59	6351.98	N 32 13 42.02 W 103 50 8 74	9 02
	11268.00	91.65	356.61		9975.12	1827.06	1782.50	411.37	0.42	4472.54	6351.98	N 32 13 42.02 W 103 50 8 65	9 02
	11361.00	90.96	356.82		9975.12	1920.27	2013.08	403.01	0.73	4473.48	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11450.00	91.13	356.82		9975.12	2105.42	2103.08	401.06	1.58	4475.38	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11540.00	91.07	356.82		9975.12	2202.90	2202.90	398.72	0.36	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11630.00	91.03	356.82		9975.12	2300.88	2300.88	398.72	0.04	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11720.00	91.03	356.82		9975.12	2400.88	2400.88	398.72	0.18	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11810.00	91.03	356.82		9975.12	2500.88	2500.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	11900.00	91.03	356.82		9975.12	2600.88	2600.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12000.00	91.03	356.82		9975.12	2700.88	2700.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12100.00	91.03	356.82		9975.12	2800.88	2800.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12200.00	91.03	356.82		9975.12	2900.88	2900.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12300.00	91.03	356.82		9975.12	3000.88	3000.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12400.00	91.03	356.82		9975.12	3100.88	3100.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12500.00	91.03	356.82		9975.12	3200.88	3200.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12600.00	91.03	356.82		9975.12	3300.88	3300.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12700.00	91.03	356.82		9975.12	3400.88	3400.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12800.00	91.03	356.82		9975.12	3500.88	3500.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	12900.00	91.03	356.82		9975.12	3600.88	3600.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13000.00	91.03	356.82		9975.12	3700.88	3700.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13100.00	91.03	356.82		9975.12	3800.88	3800.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13200.00	91.03	356.82		9975.12	3900.88	3900.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13300.00	91.03	356.82		9975.12	4000.88	4000.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13400.00	91.03	356.82		9975.12	4100.88	4100.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13500.00	91.03	356.82		9975.12	4200.88	4200.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13600.00	91.03	356.82		9975.12	4300.88	4300.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13700.00	91.03	356.82		9975.12	4400.88	4400.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13800.00	91.03	356.82		9975.12	4500.88	4500.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	13900.00	91.03	356.82		9975.12	4600.88	4600.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14000.00	91.03	356.82		9975.12	4700.88	4700.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14100.00	91.03	356.82		9975.12	4800.88	4800.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14200.00	91.03	356.82		9975.12	4900.88	4900.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14300.00	91.03	356.82		9975.12	5000.88	5000.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14400.00	91.03	356.82		9975.12	5100.88	5100.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14500.00	91.03	356.82		9975.12	5200.88	5200.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14600.00	91.03	356.82		9975.12	5300.88	5300.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14700.00	91.03	356.82		9975.12	5400.88	5400.88	398.72	0.11	4477.28	6351.98	N 32 13 43.00 W 103 50 8 65	9 02
	14800.00	91.03	356.82										

Comments	MD (ft)	Incl (°)	Azm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	18547.00	89.35	359.52	9946.83	9014.34	0007.06	368.40	1.73	454531.83	695137.49	N 32 14 54.97 W	103 50 9.03
	18642.00	90.07	360.00	9947.31	8109.27	0102.06	368.00	0.91	454628.02	695137.10	N 32 14 55.91 W	103 50 9.03
	18738.00	90.07	359.59	9947.20	8203.21	0186.06	367.72	0.44	454720.81	695136.76	N 32 14 56.84 W	103 50 9.03
	18830.00	89.97	359.87	9947.16	8297.14	0280.06	367.28	0.32	454814.80	695136.32	N 32 14 57.77 W	103 50 9.03
	18925.00	90.14	359.66	9947.07	8392.07	0385.06	366.89	0.29	454909.80	695135.93	N 32 14 58.72 W	103 50 9.03
	19114.00	90.41	0.16	9948.16	8580.96	0574.05	366.60	0.30	455098.78	695135.63	N 32 15 0.59 W	103 50 9.02
	19209.00	90.00	0.62	9945.82	8675.92	0669.05	367.16	0.57	455193.77	695136.10	N 32 15 1.53 W	103 50 9.01
	19304.00	89.17	359.12	9948.51	8770.85	0764.04	366.88	1.71	455288.76	695135.90	N 32 15 2.47 W	103 50 9.01
	19399.00	90.24	0.50	9947.00	8865.78	0859.04	366.60	1.89	455383.75	695135.63	N 32 15 3.41 W	103 50 9.00
	19493.00	90.90	0.60	9948.02	8959.75	0953.03	367.55	0.77	455477.73	695136.56	N 32 15 4.34 W	103 50 8.99
	19583.00	91.24	359.57	9942.37	10149.82	10142.89	367.83	0.56	455567.68	695136.86	N 32 15 5.21 W	103 50 8.97
	19777.00	91.38	359.03	9940.22	10243.49	10236.88	368.68	0.59	455761.64	695135.72	N 32 15 7.14 W	103 50 8.98
	19966.00	90.62	359.12	9936.92	10432.23	10425.90	363.63	0.40	455950.58	695132.87	N 32 15 9.01 W	103 50 9.01
	20060.00	90.62	0.71	9935.99	10526.17	10519.89	363.49	1.69	456044.56	695132.53	N 32 15 9.94 W	103 50 9.00
	20249.00	91.20	359.06	9933.15	10715.02	10708.87	363.11	0.94	456233.52	695132.15	N 32 15 11.81 W	103 50 9.00
Final MWD	20338.00	90.79	359.63	9931.64	10801.92	10795.85	362.12	0.81	456320.48	695131.15	N 32 15 12.67 W	103 50 9.00
Survey	20375.00	90.79	359.63	9931.10	10840.88	10834.84	361.87	0.00	456350.49	695130.90	N 32 15 13.06 W	103 50 9.01
Proj. to Bit												

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7055 sigma
Survey Program:

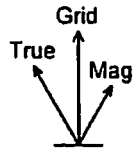
Description	Part	MD From (ft)	MD To (ft)	EQU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	20.500	1/88.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20.375'
	1	26.500	26.500	Act Sins	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD 0-20.375'
	1	26.500	9997.600	Act Sins	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD
	1	9997.600	20375.000	Act Sins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Nimitz MDP1 12 Federal 9H Gyro+MWD

Schlumberger

OXY



Borehole:		Well:	Field:	Structure:
Original Borehole		Oxy Nimitz MDP1 12 Federal 9H	NM Eddy County (NAD 83)	Oxy Nimitz MDP1 12 Federal 9H
Gravity & Magnetic Parameters				
Model:	NOM3515	Dir:	59.97°	Date:
MagDir:	0.925°	PS:	49221.57147	Gravity PS:
		9.8033 m/s² (9.80665 Standard)		
Surface Location				
NAD83 New Mexico State Plane, Eastern Zone, US Feet				
Lat:	N 32 13 25.57	Longitude:	107 52 30.8015	Grid Cont:
Long:	W 103 54 13.08	Easting:	634763.00708	Scale Factor:
		0.99999975		
Miscellaneous				
Stat:	Oxy Nimitz MDP1 12	Surf:	8826.75 57151.91 9H above WBLJ	
Plan:	Oxy Nimitz MDP1 12 Federal 9H	Rev2	APS 02 May 18	



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

