

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)

Schlumberger

30 015-44526

June 18, 2018

RECEIVED

OXY USA INC.
P O Box 4294 Houston, TX 77210

MAR 18 2019

DISTRICT II-ARTESIA O.C.D.

Re:

CLIENT: OXY USA INC.
WELL: Nimitz MDP1 12 Fed Com 1H
FIELD: Cottonwood Draw-Bone spring

RIG: H&P 556
COUNTY: Eddy
API NO: 30-015-44526
JOB NO: 18MLD2644

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Ahmed Sardab FS	Nimitz MDP1 12 Fed Com 1H Original Hole	592.00 Ft to 19804.00 Ft	May 15, 2018 to May 25, 2018	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Enrique Fernandez
Field Service Manager

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)

Schlumberger

Well Reference:
12, 24S, 30E, Eddy NM
N 32.22593 W 103.84258

I, Ahmed Sardab certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 15, 2018 through May 25, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 592.00 feet to a depth of 19804.00 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 INC. for the Nimitz MDPI 12 Fed Com 1H Well (Original Hole) API No. 30-015-44526 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.

By
Ahmed Sardab
FS



Subscribed and Sworn to before me this 18th day of June (month) 2018 (yr)

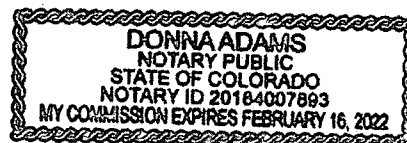
My Commission expires:

2-16-2022

D. Adams
Notary Public

Adams County Colorado
(County State)

(signature)



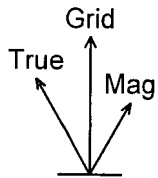


OXY

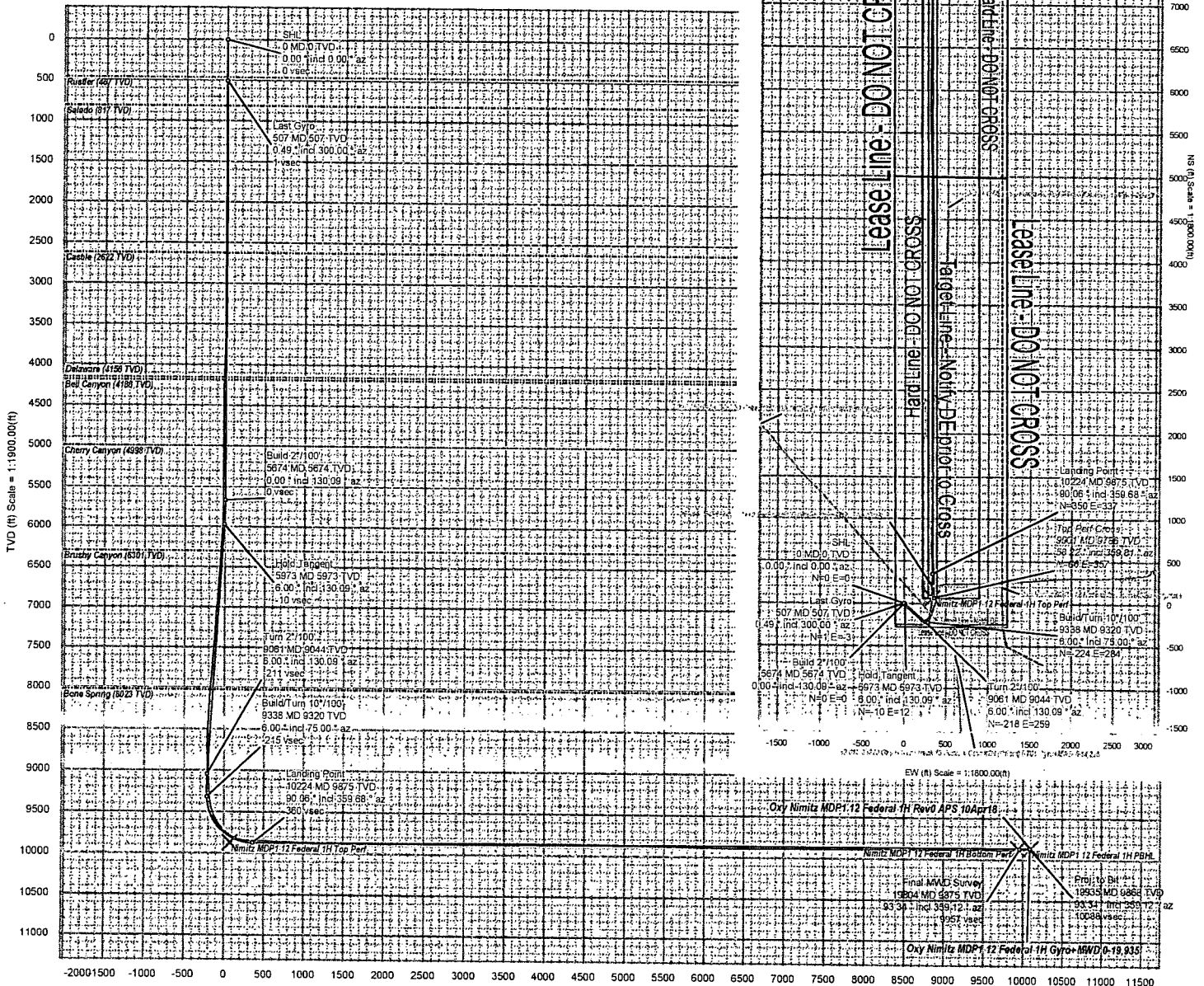
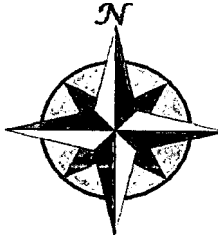


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Nimitz MDP1 12 Federal 1H	NM Eddy County (NAD 83)	Oxy Nimitz MDP1 12 Federal 1H

Gravity & Magnetic Parameters				Surface Location			NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous						
Model:	HOGM 2018	Dip:	59.98°	Date:	07-May-2018		Lat:	N 32 13 33.33	Northing:	448271.87NUS	Grid Conv:	0.2617°	Slot:	Oxy Nimitz MDP1 12 Federal 1H	TVD Ref:	RKB=30(3527.2h above MSL)
MagDec:	6.93°	FS:	48020.50hT	Gravity FS:	998.43mgm (9.80655 Based)		Lon:	W 103 50 33.31	Easting:	633090.21NUS	Scale Fact:	0.99993547	Plan:	Oxy Nimitz MDP1 12 Federal 1H Rev0 APS 10Apr18		



Grid North
Tot Corr (M->G 6.668°)
Mag Dec (6.930°)
Grid Conv (0.262°)



Vertical Section (ft) Azim = 1.61° Scale = 1:1900.00(ft) Origin = 0N/-S. 0E/-W

Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD 0-19,935' Survey Geodetic Report

(Def Survey)



Report Date: May 25, 2018 - 10:18 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Nimitz MDP1 12 Federal 1H / Oxy Nimitz MDP1 12 Federal 1H
 Well: Oxy Nimitz MDP1 12 Federal 1H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44526
 Survey Name: Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD 0-19,935'
 Survey Date: May 07, 2018
 Tort / AHD / DDI / ERD Ratio: 186.071 * / 10714.367 ft / 6.504 / 1.084
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 13' 33.33003", W 103° 50' 33.30622"
 Location Grid N/E Y/X: N 446271.870 RUS, E 693090.210 RUS
 CRS Grid Convergence Angle: 0.2617 *
 Grid Scale Factor: 0.99993547
 Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 1.605 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=30'
 TVD Reference Elevation: 3527.200 ft above MSL
 Seabed / Ground Elevation: 3497.200 ft above MSL
 Magnetic Declination: 6.930 *
 Total Gravity Field Strength: 998.4306mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48020.508 nT
 Magnetic Dip Angle: 59.980 *
 Declination Date: May 07, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.2617 *
 Total Corr Mag North->Grid North: 6.6680 *
 Local Coord Referenced To: Well Head

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	446271.87	693090.21	N 32 13 33.33	W 103 50 33.31
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	446271.87	693090.21	N 32 13 33.33	W 103 50 33.31
	77.10	0.22	339.14	77.10	0.08	0.08	-0.03	0.00	446271.95	693090.18	N 32 13 33.33	W 103 50 33.31
	139.00	0.34	324.32	139.00	0.34	0.34	-0.18	0.22	446272.21	693090.03	N 32 13 33.33	W 103 50 33.31
	198.10	0.29	297.35	198.10	0.54	0.56	-0.42	0.26	446272.43	693089.79	N 32 13 33.34	W 103 50 33.31
	259.30	0.33	268.38	259.30	0.60	0.62	-0.73	0.26	446272.49	693089.48	N 32 13 33.34	W 103 50 33.31
	316.30	0.42	292.64	316.30	0.67	0.70	-1.09	0.32	446272.57	693089.12	N 32 13 33.34	W 103 50 33.32
	379.70	0.51	292.90	379.69	0.85	0.90	-1.56	0.14	446272.77	693088.65	N 32 13 33.34	W 103 50 33.32
	443.10	0.50	286.50	443.09	1.03	1.09	-2.09	0.09	446272.96	693088.12	N 32 13 33.34	W 103 50 33.33
Last Gyro	506.70	0.49	300.00	506.69	1.23	1.30	-2.59	0.18	446273.17	693087.62	N 32 13 33.34	W 103 50 33.34
	592.00	0.18	301.70	591.99	1.47	1.55	-3.02	0.36	446273.42	693087.19	N 32 13 33.35	W 103 50 33.34
	683.00	0.23	275.29	682.99	1.55	1.64	-3.32	0.12	446273.51	693086.89	N 32 13 33.35	W 103 50 33.34
	775.00	0.40	290.39	774.99	1.67	1.77	-3.81	0.20	446273.64	693086.40	N 32 13 33.35	W 103 50 33.35
	957.00	0.48	297.81	956.98	2.21	2.35	-5.08	0.05	446274.22	693085.13	N 32 13 33.35	W 103 50 33.37
	1048.00	0.50	292.81	1047.98	2.52	2.68	-5.78	0.05	446274.55	693084.43	N 32 13 33.36	W 103 50 33.37
	1143.00	0.59	295.73	1142.97	2.87	3.06	-6.60	0.10	446274.93	693083.61	N 32 13 33.36	W 103 50 33.38
	1238.00	0.56	292.86	1237.97	3.24	3.45	-7.47	0.04	446275.32	693082.74	N 32 13 33.36	W 103 50 33.39
	1332.00	0.45	294.76	1331.96	3.55	3.78	-8.23	0.12	446275.65	693081.98	N 32 13 33.37	W 103 50 33.40
	1427.00	0.51	291.28	1426.96	3.84	4.09	-8.96	0.07	446275.96	693081.25	N 32 13 33.37	W 103 50 33.41
	1616.00	0.48	313.37	1615.95	4.65	4.94	-10.32	0.10	446276.81	693079.89	N 32 13 33.38	W 103 50 33.43
	1711.00	0.41	308.17	1710.95	5.12	5.42	-10.88	0.08	446277.29	693079.33	N 32 13 33.38	W 103 50 33.43
	1806.00	0.44	296.97	1805.95	5.48	5.80	-11.47	0.09	446277.67	693078.74	N 32 13 33.39	W 103 50 33.44
	1900.00	0.50	285.56	1899.95	5.73	6.07	-12.19	0.12	446277.94	693078.02	N 32 13 33.39	W 103 50 33.45
	1994.00	0.46	281.79	1993.94	5.89	6.26	-12.95	0.05	446278.13	693077.26	N 32 13 33.39	W 103 50 33.46
	2089.00	0.48	252.36	2088.94	5.83	6.22	-13.70	0.25	446278.09	693076.51	N 32 13 33.39	W 103 50 33.47
	2183.00	0.53	248.57	2182.94	5.53	5.94	-14.48	0.06	446277.81	693075.73	N 32 13 33.39	W 103 50 33.47
	2278.00	0.60	255.25	2277.93	5.22	5.65	-15.37	0.10	446277.52	693074.84	N 32 13 33.39	W 103 50 33.48
	2373.00	0.60	248.70	2372.93	4.89	5.34	-16.32	0.07	446277.21	693073.89	N 32 13 33.38	W 103 50 33.50
	2467.00	0.52	244.40	2466.92	4.50	4.98	-17.16	0.10	446276.85	693073.05	N 32 13 33.38	W 103 50 33.51
	2562.00	0.48	249.80	2561.92	4.15	4.66	-17.92	0.07	446276.53	693072.29	N 32 13 33.38	W 103 50 33.51
	2751.00	0.17	301.04	2750.91	4.00	4.53	-18.91	0.21	446276.40	693071.30	N 32 13 33.38	W 103 50 33.53
	2846.00	0.32	46.23	2845.91	4.26	4.79	-18.84	0.42	446276.65	693071.37	N 32 13 33.38	W 103 50 33.53
	2941.00	0.30	46.05	2940.91	4.62	5.14	-18.47	0.02	446277.01	693071.75	N 32 13 33.38	W 103 50 33.52
	3035.00	0.20	22.80	3034.91	4.95	5.46	-18.22	0.15	446277.33	693071.99	N 32 13 33.38	W 103 50 33.52
	3225.00	0.29	359.44	3224.91	5.74	6.25	-18.10	0.07	446278.12	693072.11	N 32 13 33.39	W 103 50 33.52
	3330.00	0.11	114.63	3329.91	5.97	6.47	-18.01	0.33	446278.34	693072.20	N 32 13 33.39	W 103 50 33.52
	3508.00	0.81	141.46	3507.90	4.94	5.42	-17.07	0.40	446277.29	693073.14	N 32 13 33.38	W 103 50 33.50
	3698.00	1.58	153.47	3697.86	1.60	2.02	-15.07	0.42	446273.89	693075.14	N 32 13 33.35	W 103 50 33.48
	3887.00	2.92	157.81	3886.71	-5.10	-4.77	-12.08	0.71	446267.11	693078.13	N 32 13 33.28	W 103 50 33.45
	3982.00	2.82	159.61	3981.59	-9.48	-9.20	-10.36	0.14	446262.67	693079.85	N 32 13 33.24	W 103 50 33.43
	4055.00	2.62	159.74	4054.51	-12.70	-12.44	-9.15	0.27	446258.43	693081.06	N 32 13 33.21	W 103 50 33.41
	4248.00	1.40	164.93	4247.39	-19.05	-18.86	-7.01	0.64	446253.01	693083.20	N 32 13 33.14	W 103 50 33.39
	4342.00	0.65	179.35	4341.37	-20.68	-20.50	-6.71	0.84	446251.37	693083.50	N 32 13 33.12	W 103 50 33.38
	4532.00	0.13	13.11	4531.37	-21.55	-21.37	-6.65	0.41	446250.50	693083.56	N 32 13 33.12	W 103 50 33.38
	4627.00	0.06	23.81	4626.37	-21.40	-21.22	-6.60	0.08	446250.65	693083.61	N 32 13 33.12	W 103 50 33.38
	4721.00	0.06	9.71	4720.37	-21.30	-21.13	-6.57	0.02	446250.75	693083.64	N 32 13 33.12	W 103 50 33.38
	4816.00	0.06	4.44	4815.37	-21.20	-21.03	-6.56	0.01	446250.84	693083.65	N 32 13 33.12	W 103 50 33.38
	5005.00	0.06	121.68	5004.37	-21.15	-20.98	-6.47	0.05	446250.89	693083.74	N 32 13 33.12	W 103 50 33.38
	5195.00	0.06	182.68	5194.37	-21.30	-21.13	-6.39	0.03	446250.74	693083.82	N 32 13 33.12	W 103 50 33.38
	5290.00	0.06	53.66	5289.37	-21.32	-21.15	-6.35	0.11	446250.72	693083.86	N 32 13 33.12	W 103 50 33.38
	5384.00	0.06	49.62	5383.37	-21.26	-21.09	-6.27	0.00	446250.78	693083.94	N 32 13 33.12	W 103 50 33.38
	5479.00	0.16	356.10	5478.37	-21.09	-20.93	-6.25	0.14	446250.95	693083.96	N 32 13 33.12	W 103 50 33.38
	5573.00	0.06	103.87	5572.37	-20.97	-20.81	-6.21	0.20	446251.06	693084.00	N 32 13 33.12	W 103 50 33.38
	5668.00	0.80	110.26	5667.36	-21.20	-21.05	-5.54	0.78	446250.82	693084.07	N 32 13 33.12	W 103 50 33.37
	5763.00	2.03	112.38	5762.33	-22.00	-21.92	-3.36	1.30	446249.95	693086.85	N 32 13 33.11	W 103 50 33.35
	5857.00	2.80	113.20	5856.25	-23.44	-23.46	-2.95	0.29	446248.41	693090.50	N 32 13 33.10	W 103 50 33.30
	5952.00	4.00	118.36	5951.08	-25.79	-25.95	-2.54	1.30	446245.93	693095.55	N 32 13 33.07	W 103 50 33.25
	6047.00	5.45	122.63	6045.75	-29.60	-29.95	-1.05	1.57	446241.92	693102.27	N 32 13 33.03	W 103 50 33.17
	6141.00	6.66	124.14	6139.23	-34.84	-35.42	-0.76	1.30	446236.45	693110.54	N 32 13 32.98	W 103 50 33.07
	6236.00	6.79	124.83	6233.58	-40.88	-41.72	-0.84	0.16	446230.15	693119.70	N 32 13 32.92	W 103 50 32.97
	6330.00	6.82	124.82	6326.91	-46.98	-48.08	-1.15	0.32	446223.79	693128.85	N 32 13 32.85	W 103 50 32.86
	6425.00	6.79	126.43	6421.24	-53.27	-54.63	-1.35	0.20	446217.24	693138.00	N 32 13 32.79	W 103 50 32.75
	6520.00	6.58	128.36	6515.60	-59.74	-61.35	-1.58	0.09	446210.53	693146.78	N 32 13 32.72	W 103 50 32.65
	6709.00	6.75	128.81	6703.32	-72.94	-75.03	-1.81	0.09	446196.85	693163.93	N 32 13 32.58	W 103 50 32.45
	6804.00	6.60	128.96	6797.68	-79.62	-81.96	-2.07	0.16	446189.91	693172.52	N 32 13 32.52	W 103 50 32.35
	6898.00	6.82	127.99	6891.03	-86.21	-88.79	-2.26	0.26	446183.08	693181.12	N 32 13 32.45	W 103 50 32.25
	6993.00	6.87	128.65	6985.36	-92.98	-95.81	-2.46	0.10	446176.06	693190.00	N 32 13 32.38	W 103 50 32.15
	7088.00	6.78	128.05	7079.68	-99.74	-102.82	-2.65	0.12	446169.06	693198.86	N 32 13 32.31	W 103 50 32.05
	7182.00	6.75	129.61	7173.03	-106.43	-109.76	-2.84	0.20	446162.12	693207.48	N 32 13 32.24	W 103 50 31.95
	7277.00	6.76	130.18	7267.37	-113.36	-116.93	-3.03	0.07	446154.95	693216.05	N 32 13 32.17	W 103 50 31.85
	7372.00	6.72	130.83	7361.71	-120.36	-124.17	-3.22	0.09	446147.71	693224.53	N 32 13 32.10	W 103 50 31.75
	7466.00	6.73	131.60	7455.07	-127.38	-131.42	-3.41	0.10	446140.46	693232.81	N 32 13 32.02	W 103 50 31.65
	7561.00	6.68	132.72	7549.42	-134.59	-138.87	-3.60	0.15	446133.01	693241.03	N 32 13 31.95	W 103 50 31.58
	7655.00	6.68	132.47	7642.78	-141.76	-146.27	-3.79	0.03	446125.61	693249.08	N 32 13 31.88	W

Comments	MD (ft)	Incl (°)	Azin Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8223.00	5.58	136.35	8207.31	-185.09	-190.84	202.69	0.41	446081.04	693292.89	N 32 13 31.43	W 103 50 30.96
	8318.00	5.51	133.75	8301.87	-191.40	-197.34	209.17	0.27	446074.54	693299.37	N 32 13 31.37	W 103 50 30.88
	8412.00	4.62	138.24	8395.50	-197.19	-203.28	214.95	1.04	446068.60	693305.15	N 32 13 31.31	W 103 50 30.81
	8507.00	4.95	138.58	8490.17	-202.96	-209.21	220.21	0.35	446062.67	693310.41	N 32 13 31.25	W 103 50 30.75
	8602.00	3.22	124.22	8584.93	-207.40	-213.79	225.13	2.10	446058.10	693315.33	N 32 13 31.20	W 103 50 30.70
	8697.00	1.82	83.05	8679.84	-208.61	-215.10	228.84	2.32	446056.78	693319.03	N 32 13 31.19	W 103 50 30.65
	8791.00	2.26	40.74	8773.78	-206.95	-213.52	231.53	1.63	446058.37	693321.72	N 32 13 31.21	W 103 50 30.62
	8886.00	2.35	33.75	8868.71	-203.85	-210.48	233.83	0.31	446061.40	693324.03	N 32 13 31.24	W 103 50 30.60
	8981.00	3.31	38.03	8963.59	-199.99	-206.70	236.60	1.03	446065.18	693326.80	N 32 13 31.27	W 103 50 30.56
	9075.00	4.69	55.26	9057.36	-195.53	-202.37	241.43	1.93	446069.51	693331.63	N 32 13 31.32	W 103 50 30.51
	9170.00	5.91	68.67	9151.96	-191.32	-198.38	249.18	1.82	446073.50	693339.38	N 32 13 31.36	W 103 50 30.42
	9251.00	6.51	77.34	9232.48	-188.57	-195.86	257.55	1.37	446076.03	693347.74	N 32 13 31.38	W 103 50 30.32
	9344.00	9.46	64.12	9324.58	-183.74	-191.36	269.57	3.72	446080.52	693359.76	N 32 13 31.42	W 103 50 30.18
	9376.00	12.80	55.77	9355.98	-180.45	-188.22	274.87	11.56	446083.66	693365.06	N 32 13 31.46	W 103 50 30.12
	9471.00	18.46	43.20	9447.45	-163.02	-171.32	293.89	6.91	446100.56	693384.08	N 32 13 31.62	W 103 50 29.89
	9565.00	25.72	32.16	9534.53	-134.28	-143.15	314.97	8.87	446128.73	693405.16	N 32 13 31.90	W 103 50 29.65
	9669.00	34.71	20.75	9624.38	-86.74	-96.23	337.54	10.22	446175.65	693427.72	N 32 13 32.36	W 103 50 29.38
	9763.00	42.66	8.51	9697.81	-29.66	-39.53	351.78	11.71	446232.35	693441.96	N 32 13 32.82	W 103 50 29.21
	9857.00	52.56	0.10	9761.16	39.50	29.53	356.57	12.42	446301.40	693446.76	N 32 13 33.61	W 103 50 29.15
	9952.00	64.79	359.51	9810.46	120.46	110.53	356.27	12.88	446382.39	693446.45	N 32 13 34.41	W 103 50 29.15
	10046.00	79.21	358.93	9839.43	209.54	199.68	355.03	15.35	446471.54	693445.22	N 32 13 35.29	W 103 50 29.15
	10141.00	87.70	358.88	9850.25	303.73	293.96	353.23	8.94	446565.81	693443.42	N 32 13 36.22	W 103 50 29.18
	10192.00	88.69	358.53	9851.86	354.64	344.92	352.08	2.06	446616.77	693442.77	N 32 13 36.73	W 103 50 29.19
	10286.00	89.28	354.53	9853.52	448.24	438.71	346.39	4.30	446710.55	693436.58	N 32 13 37.66	W 103 50 29.25
	10378.00	88.45	352.74	9855.34	539.33	530.12	336.20	2.14	446801.96	693426.38	N 32 13 38.56	W 103 50 29.19
	10469.00	88.21	357.60	9858.00	629.69	620.73	328.54	5.34	446892.56	693418.73	N 32 13 39.46	W 103 50 29.45
	10651.00	88.49	0.64	9863.24	811.42	802.62	325.75	1.68	447074.43	693415.93	N 32 13 41.26	W 103 50 29.47
	10834.00	88.42	0.80	9868.17	994.33	985.54	328.04	0.10	447257.34	693418.23	N 32 13 43.07	W 103 50 29.43
	11016.00	88.55	0.81	9872.99	1176.25	1167.45	330.60	0.07	447439.25	693420.79	N 32 13 44.87	W 103 50 29.40
	11107.00	88.59	0.45	9875.26	1267.21	1258.42	331.60	0.40	447530.21	693421.79	N 32 13 45.77	W 103 50 29.38
	11202.00	89.79	1.17	9876.60	1362.19	1353.40	332.94	1.47	447625.18	693423.13	N 32 13 46.71	W 103 50 29.36
	11296.00	89.45	0.25	9877.22	1456.18	1447.39	334.11	1.04	447719.16	693424.30	N 32 13 47.64	W 103 50 29.34
	11485.00	90.76	0.61	9876.88	1645.13	1636.38	335.53	0.72	447908.14	693425.71	N 32 13 49.51	W 103 50 29.31
	11591.00	90.45	0.29	9875.76	1751.10	1742.37	336.36	0.42	448014.12	693426.55	N 32 13 50.56	W 103 50 29.30
	11675.00	90.41	359.66	9875.13	1835.07	1826.37	336.32	0.75	448098.11	693426.51	N 32 13 51.39	W 103 50 29.29
	11769.00	90.55	359.67	9874.34	1929.01	1920.36	335.77	0.15	448192.10	693425.96	N 32 13 52.32	W 103 50 29.30
	11824.00	90.58	359.73	9872.81	2083.92	2075.35	334.96	0.04	448347.08	693425.15	N 32 13 53.85	W 103 50 29.30
	11974.00	90.59	0.03	9872.30	2133.89	2125.35	334.86	0.60	448397.08	693425.04	N 32 13 54.35	W 103 50 29.29
	12243.00	90.28	359.57	9870.98	2307.80	2299.34	334.25	0.32	448571.06	693424.44	N 32 13 56.07	W 103 50 29.29
	12338.00	90.28	0.43	9870.51	2402.76	2394.34	334.25	0.91	448666.05	693424.44	N 32 13 57.01	W 103 50 29.29
	12527.00	90.52	359.84	9870.05	2497.72	2489.34	334.36	0.77	448761.04	693424.55	N 32 13 57.95	W 103 50 29.28
	12717.00	90.55	0.21	9868.73	2686.62	2678.33	333.60	0.15	448950.02	693423.79	N 32 13 59.82	W 103 50 29.28
	12811.00	90.52	0.00	9866.96	2876.54	2868.32	333.68	0.20	449140.00	693423.87	N 32 14 1.70	W 103 50 29.27
	12906.00	90.48	358.77	9865.25	2970.50	2962.32	333.85	0.23	449233.99	693424.04	N 32 14 2.63	W 103 50 29.26
	13000.00	90.28	358.95	9864.83	3065.43	3057.31	332.83	1.30	449328.97	693423.02	N 32 14 3.57	W 103 50 29.27
	13095.00	90.07	359.72	9864.34	3159.32	3151.29	330.96	0.29	449422.95	693421.15	N 32 14 4.50	W 103 50 29.29
	13190.00	90.17	0.11	9864.14	3254.24	3246.28	329.86	0.84	449517.93	693420.05	N 32 14 5.44	W 103 50 29.29
	13284.00	90.03	359.86	9863.97	3349.20	3341.28	329.72	0.42	449612.93	693419.91	N 32 14 6.38	W 103 50 29.29
	13379.00	89.97	0.01	9863.97	3443.16	3435.28	329.70	0.30	449706.92	693419.88	N 32 14 7.31	W 103 50 29.29
	13474.00	90.24	0.01	9863.80	3538.12	3530.28	329.59	0.17	449801.91	693419.78	N 32 14 8.25	W 103 50 29.28
	13663.00	90.03	359.94	9863.33	3633.09	3625.28	329.60	0.28	449896.91	693419.79	N 32 14 9.19	W 103 50 29.28
	13758.00	90.00	0.41	9863.33	3728.01	3720.28	329.52	0.12	450085.89	693419.71	N 32 14 10.06	W 103 50 29.27
	13852.00	90.24	0.98	9863.13	3822.01	3814.28	329.81	0.50	450180.89	693420.00	N 32 14 12.00	W 103 50 29.26
	13947.00	90.21	0.14	9862.53	4010.97	4003.27	330.95	0.66	450274.87	693421.14	N 32 14 12.93	W 103 50 29.24
	14041.00	90.07	0.14	9862.53	4105.96	4098.26	332.30	0.35	450369.86	693422.49	N 32 14 13.87	W 103 50 29.22
	14136.00	89.86	0.59	9862.59	4199.95	4192.25	333.77	0.54	450463.84	693423.96	N 32 14 14.80	W 103 50 29.20
	14231.00	89.83	0.02	9862.84	4294.94	4287.24	335.21	0.62	450558.82	693425.39	N 32 14 15.74	W 103 50 29.18
	14325.00	89.52	358.11	9863.38	4389.92	4382.23	335.71	0.60	450653.81	693425.90	N 32 14 16.68	W 103 50 29.16
	14420.00	89.83	358.67	9863.92	4483.82	4476.21	334.18	2.06	450747.79	693424.37	N 32 14 17.61	W 103 50 29.18
	14515.00	89.79	358.07	9864.23	4578.67	4571.18	331.51	0.67	450842.74	693421.70	N 32 14 18.55	W 103 50 29.20
	14610.00	89.62	358.04	9864.72	4673.51	4666.14	328.81	0.63	450937.70	693419.00	N 32 14 19.49	W 103 50 29.23
	14799.00	89.35	358.10	9865.42	4768.33	4761.08	325.58	0.18	451032.63	693415.77	N 32 14 20.43	W 103 50 29.26
	14988.00	89.14	357.84	9866.91	4858.96	4851.69	319.22	0.15	451121.51	693409.41	N 32 14 22.30	W 103 50 29.33
	15177.00	88.93	358.08	9872.09	5145.57	5138.83	312.52	0.18	451140.36	693402.71	N 32 14 24.16	W 103 50 29.39
	15272.00	89.11	357.83	9873.72	5428.95	5422.61	305.80	0.17	451599.20	693395.99	N 32 14 26.03	W 103 50 29.46
	15461.00	88.97	357.66	9876.88	5617.49	5611.43	302.41	0.32	451694.12	693392.60	N 32 14 26.97	W 103 50 29.50
	15555.00	88.93	358.82	9878.61	5711.31	5705.37	292.09	1.23	451882.93	693385.16	N 32 14 28.84	W 103 50 29.57
	15650.00	89.14	0.22	9880.21	5806.24	5800.35	291.29	1.49	451976.86	693382.28	N 32 14 29.77	W 103 50 29.60
	15744.00	89.07	359.95	9881.68	5900.19	5894.34	291.43	0.30	452071.84	693381.48	N 32 14 30.71	W 103 50 29.61
	15933.00	88.97	0.07	9884.91	6089.09	6083.31	291.46	0.08	452165.82	693381.62	N 32 14 31.64	W 103 50 29.60
	16028.00	89.04	0.26	9886.56	6184.05	6178.30	291.74	0.21	452354.78	693381.65	N 32 14 33.51	W 103 50 29.59
	16122.00	90.48	0.91	9886.95	6278.03	6272.29	292.70	1.68	452449.76	693381.93	N 32 14 34.45	W 103 50 29.58
	16217.00	90.17	0.04	9886.41	6373.01	6367.29	293.48	0.97	452543.74	693382.89	N 32 14 35.38	W 103 50 29.56
	16406.00	90.38	0.09	9885.51	6561.94	6556.28	293.70	0.11	452638.73	693383.67	N 32 14 36.32	W 103 50 29.55
	16501.00	89.97	0.50	9885.22	6656.91	6651.28	294.19	0.97	452827.72	693383.89	N 32 14 38.19	W 103 50 29.54
	16596.00	90.34	1.20	9884.96	6751.90	6746.27	295.60	0.61	452922.71	693384.38	N 32 14 39.13	W 103 50 29

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 ° ' ")
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	30.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD 0-19,935'				
	1	30.000	30.000	Act Sns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD 0-19,935'				
	1	30.000	506.700	Act Sns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD 0-19,935'				
	1	506.700	19935.000	Act Sns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Nimitz MDP1 12 Federal 1H Gyro+MWD				