

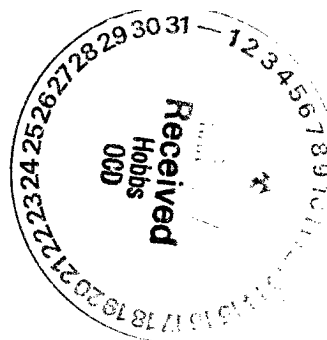


Scientific Drilling

SUR: M-18-18s-38e, 275/S & 1030/W
BHL: N-18-18s-38e, 277/S & 1389/W
API # 30-025-38114

OCCIDENTAL PERMIAN LTD.

Field: Hobbs, North
Site: Lea County, NM
Well: NHU #18-518
Wellpath: VH - Job #32K12061069
Survey: 12/31/06

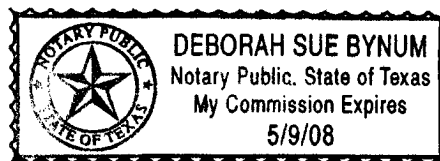


This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Richardson..... Company Representative

Notorized this date 11th of January, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #18-518
Wellpath: VH - Job #32K12061069

Date: 01/08/2007 Time: 11:58:26 Page: 1
Co-ordinate(NE) Reference: Well: NHU #18-518, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,89.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 12/31/06
KSRG 0'-1470'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Surface Readout

Start Date: 12/31/2006
Engineer: Gonzales w/P&M
Tied-to: From Surface

Survey

MD ft	Incl deg	Azma deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	Chd ft	ChA deg
0.00	0.00	359.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.22	177.97	100.00	0.00	-0.19	0.01	0.22	0.19	177.97
200.00	0.26	175.27	200.00	0.03	-0.61	0.03	0.04	0.61	176.97
300.00	0.29	155.43	300.00	0.14	-1.07	0.16	0.10	1.08	171.66
400.00	0.42	124.30	400.00	0.55	-1.50	0.56	0.23	1.61	159.42
500.00	0.48	122.99	499.99	1.20	-1.94	1.22	0.06	2.29	147.84
600.00	0.50	142.46	599.99	1.81	-2.51	1.84	0.17	3.11	143.84
700.00	1.10	158.68	699.98	2.41	-3.75	2.45	0.64	4.48	146.85
800.00	1.13	159.04	799.96	3.09	-5.57	3.15	0.03	6.40	150.48
900.00	1.12	165.85	899.94	3.66	-7.44	3.74	0.13	8.32	153.27
1000.00	1.52	176.90	999.91	3.95	-9.71	4.05	0.47	10.52	157.33
1100.00	1.79	199.86	1099.87	3.46	-12.50	3.60	0.71	13.01	163.95
1200.00	2.20	209.69	1199.81	1.95	-15.64	2.11	0.53	15.78	172.30
1300.00	2.10	217.13	1299.74	-0.14	-18.76	0.06	0.30	18.77	179.82
1400.00	1.93	223.57	1399.68	-2.44	-21.45	-2.21	0.28	21.56	185.88
1470.00	2.17	231.66	1469.64	-4.31	-23.12	-4.06	0.54	23.48	189.96



Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #18-518
Wellpath: DH - Job #32D12081048

Date: 01/08/2007 Time: 11:56:58 Page: 1
Co-ordinate(NE) Reference: Well: NHU #18-518, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,89.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 12/30/06-01/04/07
MWD 1501'-4468'

Start Date: 12/30/2006

Company: Scientific Drilling Internatio
Tool: MWD;MWD

Engineer: Woolfolk/Lopez/Foster
Tied-to: From: Definitive Path

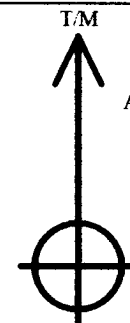
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ChD ft	ChA deg
1470.00	2.17	231.66	1469.64	-4.31	-23.12	-4.06	0.00	23.48	189.96
1501.00	2.07	232.56	1500.62	-5.22	-23.83	-4.97	0.34	24.34	191.77
1564.00	1.11	240.57	1563.59	-6.66	-24.82	-6.40	1.56	25.63	194.46
1625.00	0.44	208.27	1624.58	-7.30	-25.31	-7.03	1.27	26.27	195.51
1687.00	0.50	124.27	1686.58	-7.19	-25.68	-6.92	1.02	26.59	195.07
1749.00	0.86	73.61	1748.58	-6.52	-25.70	-6.25	1.08	26.45	193.66
1811.00	1.67	84.06	1810.56	-5.17	-25.47	-4.90	1.35	25.94	190.89
1873.00	2.33	96.64	1872.53	-3.02	-25.53	-2.75	1.27	25.67	186.15
1934.00	2.93	92.74	1933.46	-0.24	-25.74	0.04	1.03	25.74	179.91
1995.00	3.39	105.37	1994.37	3.06	-26.30	3.34	1.36	26.51	172.77
2088.00	4.41	120.05	2087.15	8.77	-28.81	9.08	1.53	30.21	162.51
2150.00	5.05	113.94	2148.94	13.31	-31.12	13.64	1.31	33.97	156.33
2212.00	6.14	108.53	2210.65	18.92	-33.28	19.28	1.95	38.46	149.92
2275.00	7.28	103.47	2273.22	25.98	-35.28	26.35	2.04	44.03	143.24
2369.00	8.49	95.56	2366.33	38.65	-37.34	39.05	1.73	54.03	133.71
2461.00	8.56	90.75	2457.31	52.25	-38.08	52.66	0.78	64.99	125.88
2554.00	9.33	88.33	2549.18	66.71	-37.96	67.12	0.92	77.10	119.49
2640.00	9.68	84.46	2634.00	80.88	-37.05	81.28	0.85	89.33	114.51
2709.00	9.65	83.70	2702.02	92.42	-35.86	92.80	0.19	99.49	111.13
2806.00	9.35	84.21	2797.69	108.35	-34.17	108.72	0.32	113.97	107.45
2903.00	8.60	83.67	2893.50	123.42	-32.58	123.77	0.78	127.99	104.75
2996.00	8.62	81.11	2985.46	137.23	-30.73	137.57	0.41	140.96	102.59
3058.00	8.68	80.50	3046.75	146.45	-29.24	146.77	0.18	149.66	101.27
3126.00	8.68	82.01	3113.97	156.61	-27.68	156.91	0.34	159.34	100.01
3217.00	9.16	80.43	3203.87	170.58	-25.53	170.86	0.59	172.75	98.50
3308.00	8.36	82.86	3293.81	184.30	-23.50	184.56	0.97	186.05	97.26
3497.00	8.65	80.05	3480.73	211.98	-19.34	212.20	0.27	213.07	95.21
3591.00	8.74	79.01	3573.65	225.98	-16.75	226.17	0.19	226.79	94.24
3685.00	9.40	76.77	3666.48	240.49	-13.63	240.65	0.80	241.04	93.24
3777.00	8.85	79.52	3757.31	254.80	-10.63	254.92	0.76	255.15	92.39
3839.00	8.49	79.67	3818.60	264.01	-8.94	264.12	0.58	264.27	91.94
3932.00	9.18	81.28	3910.50	278.12	-6.58	278.20	0.79	278.28	91.36
4029.00	8.50	85.25	4006.35	292.93	-4.82	293.00	0.94	293.04	90.94
4091.00	8.22	85.50	4067.69	301.92	-4.09	301.98	0.46	302.01	90.78
4185.00	8.86	83.37	4160.65	315.82	-2.73	315.87	0.76	315.88	90.49
4278.00	8.79	82.41	4252.54	330.00	-0.96	330.03	0.18	330.03	90.17
4372.00	8.83	85.35	4345.44	344.33	0.57	344.34	0.48	344.34	89.90
4468.00	8.88	87.22	4440.29	359.08	1.53	359.08	0.30	359.09	89.76



Scientific
Drilling

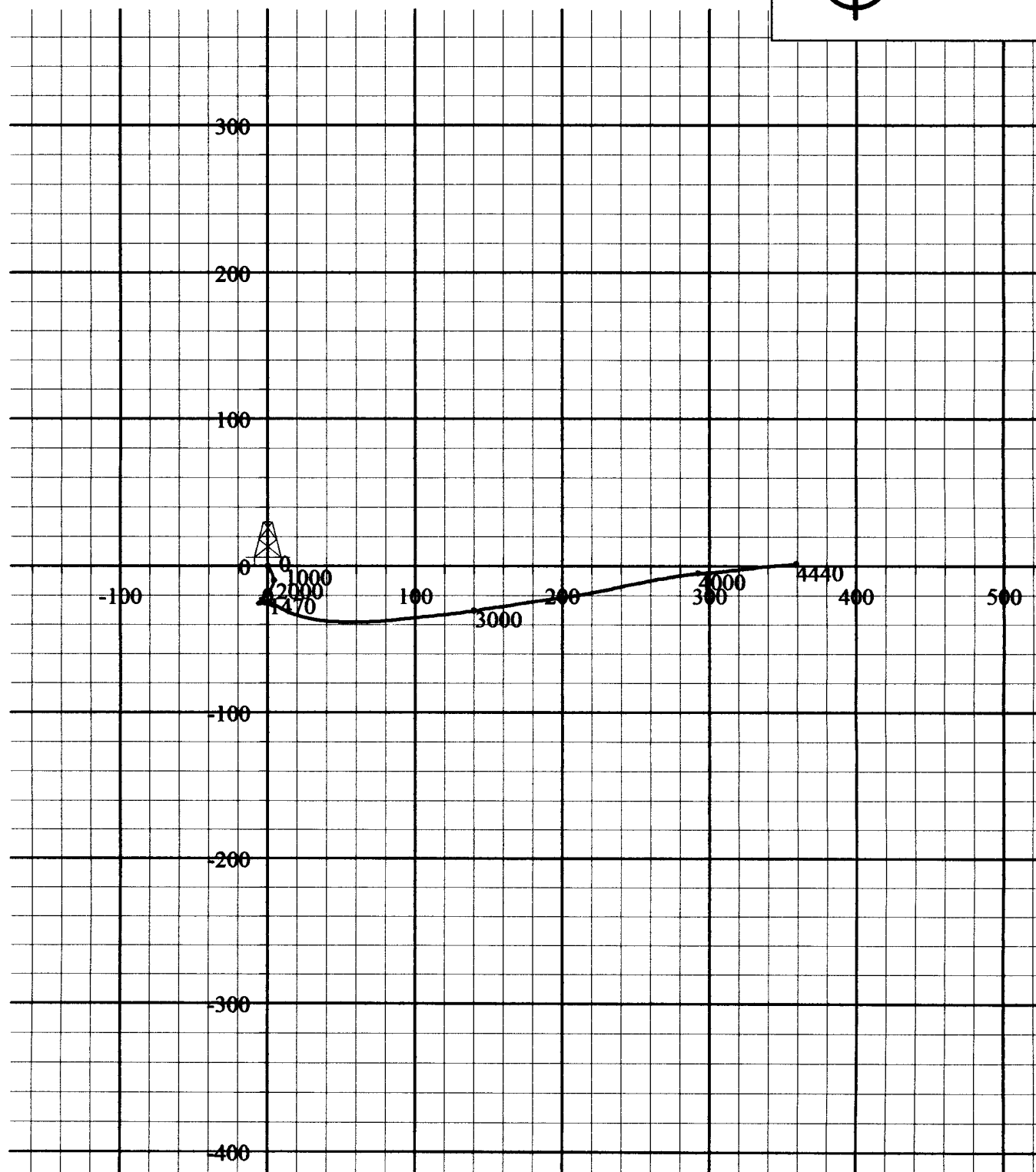
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #18-518
Wellpath: DH - Job #32D12061046
Survey: 12/30/06-01/04/07



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 01/08/2007
Model: Wmm_95

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]