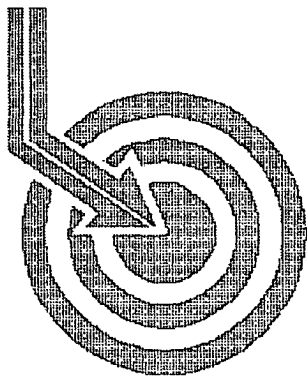




Scientific Drilling

SUR: G-19-18s-38e, 2290/N & 1410/E
BHL: J-19-18s-38e, 2844/N & 1415/E
API #30-025-37446

OCCIDENTAL PERMIAN LTD.

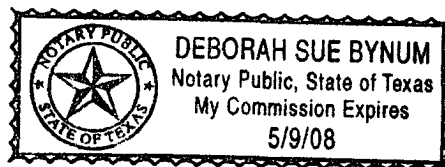
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #19-633
Wellpath: DH - Job #32D1005723
Survey: 10/03/05-10/08/05

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

.....*Deborah Sue Bynum*..... Company Representative

Notorized this date 19th of November, 2005.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #19-633
Wellpath: VH - Job #32K1005730

Date: 11/19/2005 Time: 15:12:52 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,189.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/03/05 Start Date: 10/3/2005
KSRG 0'-1470'
Company: Scientific Drilling Internatio Engineer: Guebara w/Gray
Tool: Keeper;Keeper Surface Readout Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.52	271.12	100.00	0.07	0.01	-0.45	0.52	0.45	271.12
200.00	0.46	263.81	199.99	0.25	-0.03	-1.31	0.09	1.31	268.88
300.00	0.23	282.59	299.99	0.35	-0.03	-1.90	0.25	1.90	269.24
400.00	0.09	344.95	399.99	0.27	0.09	-2.12	0.20	2.12	272.56
500.00	0.05	229.23	499.99	0.23	0.14	-2.17	0.12	2.18	273.74
600.00	0.15	119.58	599.99	0.31	0.05	-2.09	0.17	2.09	271.34
700.00	0.17	175.22	699.99	0.50	-0.16	-1.96	0.15	1.97	265.24
800.00	0.14	259.07	799.99	0.69	-0.33	-2.07	0.21	2.10	260.82
900.00	0.36	223.04	899.99	0.99	-0.59	-2.41	0.26	2.48	256.28
1000.00	0.32	241.04	999.99	1.43	-0.95	-2.86	0.11	3.02	251.61
1100.00	0.39	261.80	1099.99	1.71	-1.14	-3.45	0.15	3.63	251.75
1200.00	0.28	254.08	1199.99	1.92	-1.25	-4.02	0.12	4.21	252.70
1300.00	0.32	240.71	1299.98	2.21	-1.46	-4.50	0.08	4.73	252.07
1400.00	0.75	220.79	1399.98	2.95	-2.09	-5.17	0.46	5.57	248.00
1470.00	0.64	257.74	1469.98	3.49	-2.52	-5.85	0.65	6.37	246.71



Scientific
Drilling

Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #19-633
Wellpath: DH - Job #32D1005723

Date: 11/19/2005 Time: 15:33:42 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,189.91Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/03/05-10/08/05
MWD 1548'-4488'

Start Date: 10/3/2005

Company: Scientific Drilling Internatio
Tool: MWD;MWD

Engineer: Hoffman/Smith/Harvell
Tied-to: From: Definitive Path

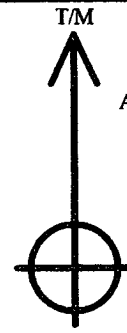
Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1470.00	0.64	257.74	1469.98	3.49	-2.52	-5.85	0.00	6.37	246.71
1548.00	0.88	247.29	1547.97	3.97	-2.84	-6.83	0.35	7.39	247.41
1643.00	0.89	238.12	1642.96	4.86	-3.51	-8.13	0.15	8.85	246.63
1736.00	0.74	211.25	1735.95	5.90	-4.41	-9.05	0.44	10.07	244.04
1799.00	1.83	192.40	1798.93	7.28	-5.74	-9.48	1.83	11.08	238.81
1861.00	3.31	198.46	1860.87	10.04	-8.40	-10.26	2.42	13.26	230.68
1922.00	5.05	203.04	1921.70	14.40	-12.54	-11.87	2.90	17.27	223.41
1985.00	6.81	206.90	1984.36	20.67	-18.43	-14.64	2.86	23.54	218.47
2047.00	8.71	205.71	2045.79	28.70	-25.94	-18.34	3.08	31.77	215.27
2139.00	11.32	197.50	2136.39	44.36	-40.83	-24.08	3.23	47.40	210.53
2202.00	12.41	193.77	2198.04	57.25	-53.30	-27.55	2.11	60.00	207.34
2263.00	13.03	188.10	2257.55	70.66	-66.47	-30.08	2.28	72.96	204.35
2357.00	13.47	187.40	2349.04	92.19	-87.82	-32.98	0.50	93.81	200.58
2451.00	13.49	187.85	2440.45	114.08	-109.54	-35.89	0.11	115.27	198.14
2544.00	13.89	187.65	2530.81	136.08	-131.35	-38.86	0.43	136.98	196.48
2636.00	13.74	187.61	2620.15	158.03	-153.12	-41.78	0.16	158.72	195.26
2732.00	13.37	187.86	2713.48	180.51	-175.42	-44.80	0.39	181.05	194.33
2826.00	12.78	188.98	2805.04	201.77	-196.45	-47.91	0.68	202.21	193.71
2920.00	11.83	190.00	2896.88	221.80	-216.21	-51.21	1.04	222.19	193.32
3012.00	12.77	192.94	2986.77	241.38	-235.41	-55.12	1.23	241.78	193.18
3106.00	13.01	187.38	3078.40	262.33	-256.03	-58.81	1.34	262.70	192.94
3200.00	12.35	188.54	3170.11	282.95	-276.46	-61.66	0.75	283.26	192.57
3294.00	12.11	184.01	3261.98	302.81	-296.24	-63.84	1.05	303.04	192.16
3388.00	13.14	187.34	3353.71	323.29	-316.67	-65.90	1.34	323.46	191.75
3482.00	12.27	189.63	3445.40	343.95	-337.12	-68.93	1.07	344.10	191.56
3577.00	12.78	188.64	3538.14	364.55	-357.46	-72.20	0.58	364.68	191.42
3671.00	12.09	190.07	3629.94	384.79	-377.43	-75.48	0.80	384.91	191.31
3766.00	12.85	186.28	3722.70	405.28	-397.73	-78.38	1.18	405.38	191.15
3860.00	13.18	184.49	3814.28	426.38	-418.80	-80.36	0.55	426.44	190.86
3953.00	12.28	187.00	3905.00	446.82	-439.19	-82.40	1.14	446.85	190.63
4043.00	13.17	180.33	3992.79	466.49	-458.94	-83.62	1.91	466.50	190.33
4135.00	12.20	181.67	4082.54	486.44	-479.14	-83.97	1.10	486.44	189.94
4227.00	12.27	182.21	4172.45	505.75	-498.63	-84.63	0.15	505.76	189.63
4322.00	12.39	180.95	4265.26	525.82	-518.90	-85.18	0.31	525.85	189.32
4418.00	12.35	180.29	4359.03	546.12	-539.47	-85.41	0.15	546.19	189.00
4488.00	12.35	180.29	4427.41	560.88	-554.44	-85.48	0.00	560.99	188.76



**Scientific
Drilling**

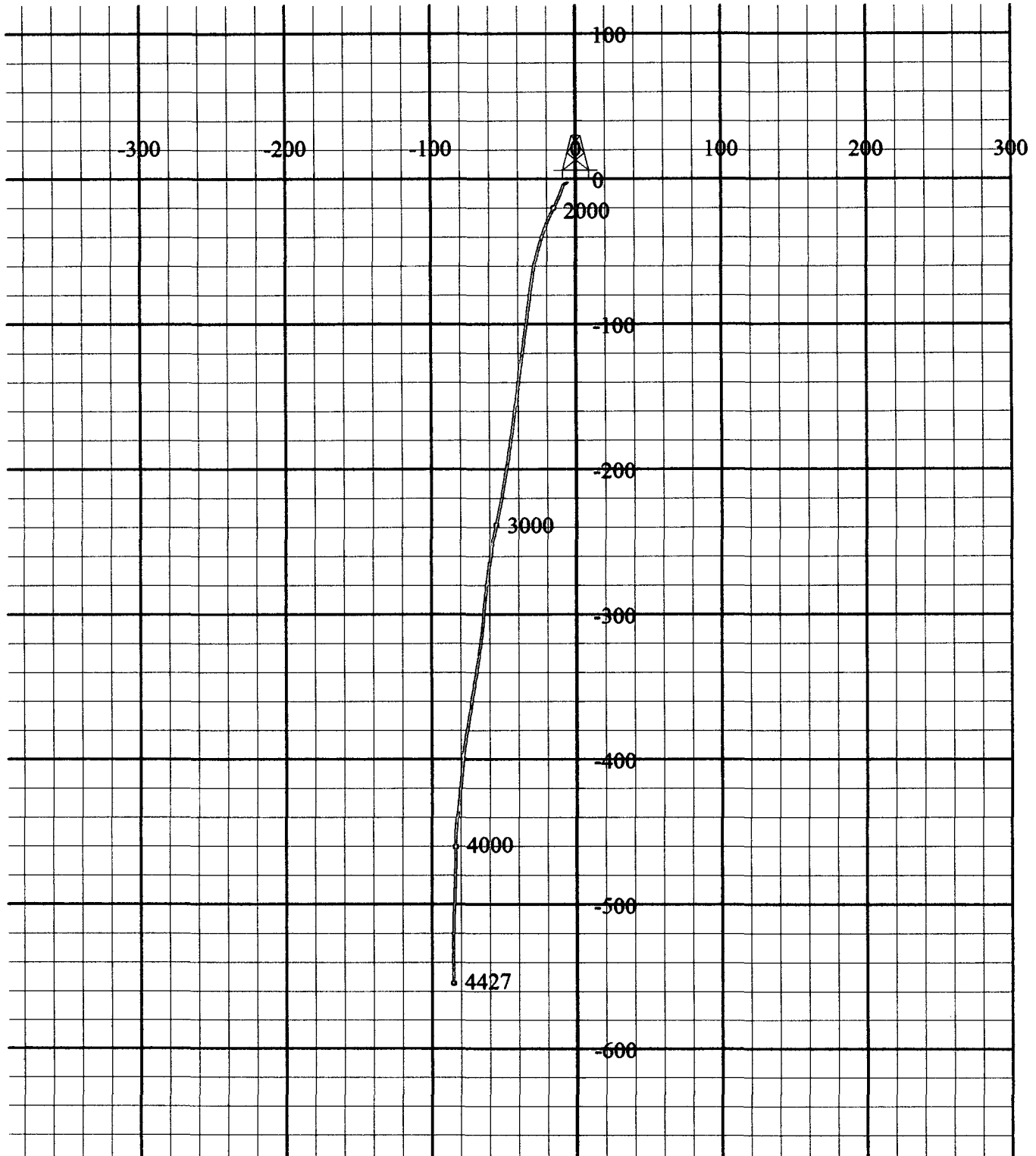
Field: Hobbs, North
Site: Lea County, NM
Well: NHU #19-633
Wellpath: DH - Job #32D1005723
Survey: 10/03/05-10/08/05



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 11/19/2005
Model: Wmm_95

West(-)/East(+) [100ft/in]



South(-)/North(+) [100ft/in]