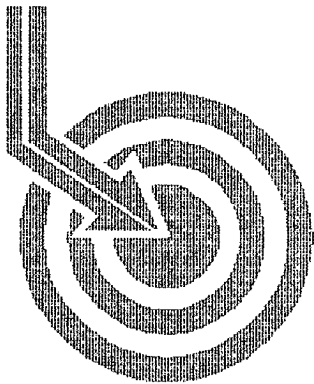


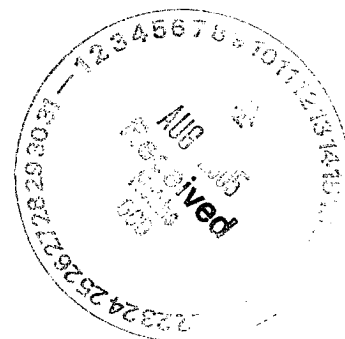


Scientific Drilling

SUR: L-19-18s-38e, 1870/S & 1298/W
BHL: L-19-18s-38e, 1713/S & 1757/W
API # 30-025-37235

OCCIDENTAL PERMIAN LTD.

Field: Hobbs, North
Site: Lea County, NM
Well: NH G/SA #19627
Wellpath: DH - Job #32D0605413/436
Survey: 06/11/05-06/16/05 & 6/18/05



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

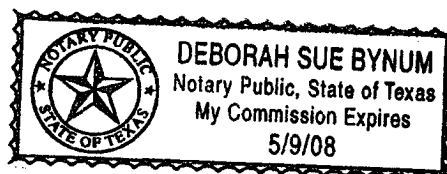
[Signature]

.....Company Representative

Notorized this date 18th of July, 2005.

[Signature: 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: NH G/SA #19627
Wellpath: VH - Job #32K0605418

Date: 7/17/2005 Time: 15:52:14 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,108.14Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 06/12/05
KSRG 0'-1495'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Surface Readout

Start Date: 6/12/2005
Engineer: Guebara w/Gray
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.41	174.41	100.00	0.14	-0.36	0.03	0.41	0.36	174.41
200.00	0.30	158.43	200.00	0.46	-0.96	0.17	0.15	0.97	170.15
300.00	0.08	199.00	300.00	0.62	-1.27	0.24	0.24	1.29	169.28
400.00	0.22	165.09	400.00	0.73	-1.52	0.27	0.16	1.54	170.05
500.00	0.05	114.28	500.00	0.87	-1.72	0.36	0.19	1.76	168.33
600.00	0.17	219.80	600.00	0.86	-1.85	0.30	0.19	1.88	170.80
700.00	0.62	248.11	699.99	0.39	-2.17	-0.30	0.48	2.19	187.80
800.00	0.55	225.60	799.99	-0.24	-2.71	-1.14	0.24	2.94	202.88
900.00	0.40	227.65	899.98	-0.64	-3.28	-1.74	0.15	3.71	208.01
1000.00	0.44	227.10	999.98	-0.99	-3.77	-2.28	0.04	4.41	211.17
1100.00	0.61	242.16	1099.98	-1.55	-4.28	-3.03	0.22	5.25	215.31
1200.00	0.48	264.43	1199.97	-2.30	-4.57	-3.92	0.25	6.02	220.62
1300.00	0.29	265.58	1299.97	-2.92	-4.63	-4.59	0.19	6.52	224.74
1400.00	0.37	279.60	1399.97	-3.47	-4.60	-5.16	0.11	6.91	228.31
1495.00	0.21	330.33	1494.97	-3.91	-4.40	-5.55	0.30	7.08	231.62



Scientific
Drilling

Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Hobbs, North
Site: Lea County, NM
Well: NH G/SA #19627
Wellpath: DH - Job #32D0605413/436

Date: 7/17/2005 Time: 16:02:25 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,108.14Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 06/11/05-06/16/05 & 6/18/05
MWD 1546'-4073' & KSRG 4100'-4430'

Start Date: 6/11/2005

Company: Scientific Drilling Internatio
Tool: MWD;MWD

Engineer: Jezek/Thomas/Guebara w/Gray
Tied-to: From: Definitive Path

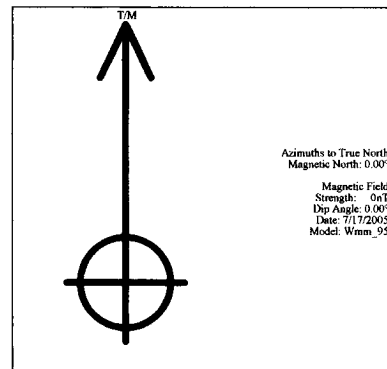
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1495.00	0.21	330.33	1494.97	-3.91	-4.40	-5.55	0.00	7.08	231.62
1546.00	0.17	301.28	1545.97	-4.05	-4.27	-5.66	0.20	7.09	232.94
1610.00	0.92	133.62	1609.97	-3.68	-4.58	-5.37	1.70	7.06	229.54
1673.00	2.14	117.86	1672.94	-2.06	-5.48	-3.96	2.03	6.76	215.89
1735.00	3.70	115.70	1734.86	1.06	-6.89	-1.14	2.52	6.98	189.38
1798.00	5.70	118.27	1797.64	6.16	-9.25	3.45	3.19	9.87	159.55
1860.00	7.73	112.10	1859.22	13.35	-12.28	10.03	3.47	15.85	140.77
1922.00	9.42	108.70	1920.52	22.58	-15.47	18.70	2.84	24.27	129.61
2014.00	11.83	109.79	2010.94	39.54	-21.08	34.70	2.63	40.60	121.28
2104.00	12.38	102.90	2098.94	58.37	-26.36	52.79	1.72	59.00	116.53
2198.00	12.43	103.74	2190.75	78.49	-31.01	72.44	0.20	78.80	113.18
2291.00	12.61	104.90	2281.54	98.61	-36.00	91.97	0.33	98.77	111.38
2390.00	11.43	104.20	2378.36	119.18	-41.18	111.92	1.20	119.26	110.20
2490.00	11.62	105.02	2476.35	139.12	-46.22	131.26	0.25	139.16	109.40
2589.00	11.43	105.72	2573.35	158.88	-51.47	150.33	0.24	158.90	108.90
2674.00	11.18	106.95	2656.70	175.53	-56.15	166.32	0.41	175.54	108.66
2767.00	10.35	108.38	2748.06	192.90	-61.41	182.87	0.94	192.91	108.56
2858.00	9.63	109.11	2837.68	208.69	-66.48	197.82	0.80	208.69	108.58
2952.00	9.83	105.13	2930.33	224.56	-71.15	213.00	0.75	224.57	108.47
3048.00	10.29	106.90	3024.86	241.32	-75.78	229.11	0.58	241.32	108.30
3140.00	9.49	110.70	3115.49	257.11	-80.85	244.07	1.12	257.11	108.33
3234.00	9.57	112.50	3208.19	272.64	-86.58	258.54	0.33	272.65	108.52
3296.00	9.83	111.14	3269.31	283.07	-90.46	268.23	0.56	283.08	108.64
3359.00	10.28	107.20	3331.34	294.06	-94.07	278.62	1.30	294.07	108.66
3422.00	9.84	107.73	3393.37	305.06	-97.37	289.12	0.71	305.07	108.61
3485.00	9.78	107.41	3455.45	315.80	-100.61	299.35	0.13	315.81	108.58
3547.00	10.65	104.81	3516.47	326.78	-103.65	309.92	1.59	326.79	108.49
3609.00	11.35	104.32	3577.33	338.59	-106.62	321.37	1.14	338.59	108.35
3701.00	10.59	106.18	3667.65	356.07	-111.22	338.26	0.91	356.07	108.20
3793.00	10.77	103.72	3758.05	373.09	-115.61	354.73	0.53	373.09	108.05
3887.00	9.90	108.12	3850.53	389.93	-120.21	370.94	1.25	389.93	107.96
3980.00	10.38	107.50	3942.08	406.30	-125.21	386.53	0.53	406.30	107.95
4073.00	9.76	110.94	4033.64	422.55	-130.55	401.88	0.93	422.55	108.00
4100.00	9.70	112.57	4060.25	427.10	-132.24	406.12	1.04	427.11	108.04
4200.00	9.69	114.24	4158.83	443.87	-138.93	421.57	0.28	443.87	108.24
4300.00	9.63	116.07	4257.41	460.53	-146.06	436.76	0.31	460.53	108.49
4400.00	9.58	115.77	4356.01	477.06	-153.35	451.77	0.07	477.08	108.75
4430.00	9.69	116.15	4385.58	482.03	-155.55	456.28	0.42	482.07	108.82



**Scientific
Drilling**

Field: Hobbs, North
Site: Lea County, NM
Well: NH G/SA #19627
Wellpath: DH - Job #32D0605413/436
Survey: 06/11/05-06/16/05 & 6/18/05



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

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

