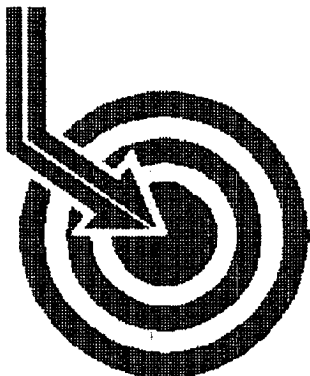




Scientific Drilling

SUR: I-29-18s-38e, 1528/S & 854/E
BHL: H-32-18s-38e, 1505/N & 917/E
API # 30-025-35999

OCCIDENTAL PERMIAN LTD.

Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-944
Wellpath: VH - Job #32K0902340
Survey: 9/24/02

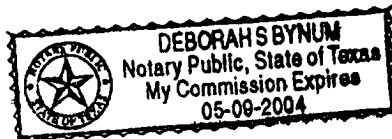


This survey is correct to the best of my knowledge
and is supported by actual field data.

Scott Nood.....Company Representative

Notorized this date 14th of October, 2002.

Deborah S Bynum
Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: OCCIDENTAL PERMIAN LTD. Field: North Hobbs Site: Lea County, NM Well: NHU #29-944 Wellpath: VH - Job #32K0902340	Date: 10/14/2002 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 12:50:10 Site: Lea County, NM, True North SITE 0.0 above Mean Sea Level Well (0.0E,0.0N,181.3Azi) Minimum Curvature	Page: 1
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Survey: 9/24/02 KSRG 0'-2450'	Start Date: 10/14/2002	
Company: Scientific Drilling Internatio Tool: Keeper	Engineer: Jeff Cossey	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.63	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.57	16.28	100.0	-0.5	0.5	0.1	0.5	16.28	0.57
200.0	0.61	44.53	200.0	-1.3	1.3	0.7	1.5	26.05	0.29
300.0	0.54	49.08	300.0	-2.1	2.0	1.4	2.4	34.34	0.08
400.0	0.39	40.46	400.0	-2.6	2.6	2.0	3.2	37.09	0.17
500.0	0.67	96.59	500.0	-2.8	2.8	2.8	3.9	44.77	0.56
600.0	0.26	42.17	600.0	-3.0	2.9	3.5	4.5	50.47	0.56
700.0	0.23	39.07	700.0	-3.3	3.2	3.8	5.0	49.63	0.03
800.0	0.45	78.78	800.0	-3.5	3.4	4.3	5.5	51.24	0.31
900.0	0.37	76.73	900.0	-3.7	3.6	5.0	6.1	54.23	0.08
1000.0	0.39	105.63	1000.0	-3.7	3.6	5.6	6.7	57.58	0.19
1100.0	0.49	115.48	1100.0	-3.4	3.3	6.3	7.1	62.52	0.13
1200.0	0.38	105.60	1200.0	-3.2	3.0	7.0	7.7	66.77	0.13
1300.0	0.27	46.31	1300.0	-3.3	3.1	7.5	8.1	67.65	0.34
1400.0	0.56	70.40	1400.0	-3.6	3.4	8.2	8.9	67.25	0.33
1500.0	1.05	40.87	1500.0	-4.5	4.3	9.2	10.2	65.11	0.63
1600.0	1.13	48.35	1599.9	-5.9	5.6	10.6	12.0	61.94	0.16
1700.0	0.75	22.71	1699.9	-7.1	6.9	11.6	13.4	59.19	0.56
1800.0	0.19	331.63	1799.9	-7.9	7.6	11.7	14.0	56.92	0.65
1900.0	0.21	193.16	1899.9	-7.9	7.6	11.6	13.9	56.76	0.37
2000.0	0.32	154.20	1999.9	-7.4	7.2	11.7	13.7	58.45	0.20
2100.0	0.73	76.05	2099.9	-7.4	7.1	12.4	14.3	60.33	0.73
2200.0	1.76	59.38	2199.9	-8.3	8.0	14.4	16.4	60.84	1.08
2300.0	2.41	55.70	2299.8	-10.4	10.0	17.4	20.1	60.19	0.66
2400.0	2.37	53.62	2399.7	-12.8	12.4	20.8	24.2	59.24	0.10
2450.0	2.42	62.70	2449.7	-14.0	13.5	22.6	26.3	59.16	0.76



**Scientific
Drilling**

Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-944
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Survey: 9/24/02

