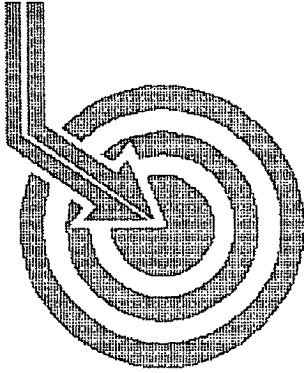




Scientific Drilling

SUR: A-4-19s-38e, 659/N & 467/E
BHL: D-3-19s-38e, 549/N & 59/W
API # 30-025-37271

OCCIDENTAL PERMIAN LTD.

Field: Hobbs, South
Site: Lea County, NM
Well: SHU #246
Wellpath: DH - Job #32D0705496
Survey: 07/10/05-07/17/05



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

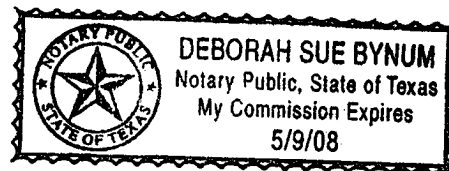
[Signature]

.....Company Representative

Notorized this date 17th of August, 2005.

[Signature: Deborah Sue Bynum]

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 8/17/2005	Time: 16:57:28	Page: 1
Field: Hobbs, South	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: SHU #246	Section (VS) Reference:	Well (0.00N,0.00E,79.64Azi)	
Wellpath: VH - Job #32K0705503	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/11/05	Start Date: 7/11/2005
Company: Scientific Drilling Internatio	Engineer: Foster/Page
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	0.77	16.72	100.00	0.31	0.64	0.19	0.77	0.67	16.72
200.00	0.89	18.71	199.99	0.99	2.02	0.64	0.12	2.12	17.45
300.00	0.56	45.04	299.98	1.77	3.10	1.23	0.46	3.34	21.63
400.00	0.70	27.31	399.97	2.54	3.99	1.86	0.24	4.40	24.95
500.00	0.63	33.94	499.97	3.30	4.99	2.44	0.10	5.56	26.09
600.00	0.27	59.50	599.96	3.91	5.57	2.95	0.40	6.30	27.95
700.00	0.32	64.73	699.96	4.40	5.80	3.41	0.06	6.73	30.43
800.00	0.27	17.82	799.96	4.78	6.15	3.73	0.24	7.19	31.27
900.00	0.16	279.73	899.96	4.76	6.40	3.67	0.33	7.37	29.84
1000.00	0.18	303.52	999.96	4.51	6.51	3.40	0.07	7.34	27.59
1100.00	0.23	7.64	1099.96	4.46	6.79	3.30	0.22	7.55	25.88
1200.00	0.26	1.83	1199.96	4.57	7.22	3.33	0.04	7.95	24.76
1300.00	0.17	61.92	1299.96	4.76	7.51	3.47	0.23	8.28	24.77
1395.00	0.25	47.10	1394.96	5.07	7.72	3.74	0.10	8.58	25.87



Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 8/17/2005	Time: 17:00:43	Page: 1
Field: Hobbs, South	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: SHU #246	Section (VS) Reference:	Well (0.00N,0.00E,79.64Azi)	
Wellpath: DH - Job #32D0705496	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/10/05-07/17/05 MWD 1572'-4383'	Start Date: 7/10/2005
Company: Scientific Drilling Internatio	Engineer: Merckle/Ledbetter
Tool: MWD;MWD	Tied-to: From: Definitive Path

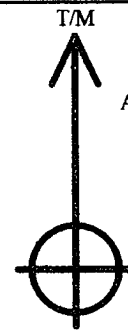
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1395.00	0.25	47.10	1394.96	5.07	7.72	3.74	0.00	8.58	25.87
1572.00	0.53	34.93	1571.95	5.98	8.66	4.50	0.16	9.75	27.44
1603.00	1.03	75.63	1602.95	6.36	8.84	4.85	2.31	10.08	28.73
1636.00	3.87	84.09	1635.92	7.77	9.03	6.24	8.65	10.98	34.65
1667.00	4.76	84.66	1666.83	10.09	9.26	8.56	2.87	12.61	42.77
1698.00	4.86	84.67	1697.72	12.68	9.50	11.15	0.32	14.65	49.57
1729.00	5.06	85.42	1728.60	15.35	9.73	13.82	0.68	16.90	54.85
1761.00	5.09	86.06	1760.48	18.16	9.94	16.65	0.20	19.39	59.15
1793.00	5.10	86.08	1792.35	20.99	10.14	19.48	0.03	21.96	62.51
1855.00	5.52	80.65	1854.09	26.71	10.81	25.17	1.06	27.39	66.76
1917.00	7.20	76.58	1915.70	33.57	12.20	31.89	2.80	34.15	69.07
1979.00	9.68	80.39	1977.03	42.66	13.97	40.81	4.10	43.14	71.11
2040.00	11.28	81.89	2037.01	53.75	15.67	51.78	2.66	54.10	73.17
2103.00	11.42	82.08	2098.77	66.14	17.39	64.06	0.23	66.38	74.81
2165.00	11.76	82.13	2159.51	78.58	19.11	76.39	0.55	78.75	75.96
2227.00	12.13	82.62	2220.17	91.40	20.81	89.11	0.62	91.51	76.86
2288.00	11.18	78.40	2279.91	103.71	22.82	101.26	2.09	103.80	77.30
2382.00	11.18	76.22	2372.13	121.92	26.82	119.04	0.45	122.02	77.30
2475.00	11.26	76.59	2463.35	139.99	31.08	136.63	0.12	140.12	77.19
2572.00	11.39	76.64	2558.46	159.01	35.49	155.16	0.13	159.16	77.12
2666.00	11.05	76.35	2650.66	177.27	39.76	172.94	0.37	177.45	77.05
2760.00	10.31	78.59	2743.04	194.68	43.55	189.94	0.90	194.87	77.09
2822.00	11.53	81.46	2803.91	206.42	45.56	201.51	2.15	206.60	77.26
2916.00	11.28	83.60	2896.06	224.98	47.98	219.94	0.52	225.11	77.69
3011.00	10.45	85.43	2989.35	242.82	49.71	237.76	0.95	242.90	78.19
3103.00	11.76	85.72	3079.63	260.44	51.07	255.42	1.43	260.48	78.69
3197.00	13.99	81.62	3171.26	281.33	53.44	276.22	2.56	281.34	79.05
3290.00	13.16	82.21	3261.66	303.14	56.51	297.83	0.90	303.15	79.26
3384.00	12.32	80.98	3353.35	323.86	59.54	318.34	0.94	323.86	79.41
3477.00	11.07	81.35	3444.41	342.70	62.44	336.97	1.35	342.70	79.50
3571.00	12.58	80.53	3536.42	361.96	65.48	355.99	1.62	361.96	79.58
3665.00	11.69	82.77	3628.32	381.70	68.36	375.53	1.07	381.70	79.68
3756.00	10.53	83.79	3717.61	399.20	70.42	392.94	1.29	399.20	79.84
3850.00	11.70	75.54	3809.85	417.28	73.73	410.71	2.10	417.28	79.82
3913.00	11.37	75.49	3871.58	429.84	76.88	422.91	0.52	429.84	79.70
4007.00	14.02	71.28	3963.27	450.35	82.86	442.67	2.98	450.36	79.40
4101.00	13.51	71.03	4054.57	472.47	90.08	463.84	0.55	472.50	79.01
4194.00	13.25	72.58	4145.05	493.79	96.80	484.28	0.48	493.86	78.70
4287.00	13.33	72.74	4235.56	515.01	103.18	504.69	0.09	515.12	78.45
4383.00	13.33	72.74	4328.97	536.99	109.74	525.82	0.00	537.15	78.21



**Scientific
Drilling**

Field: Hobbs, South
Site: Lea County, NM
Well: SHU #246
Wellpath: DH - Job #32D0705496
Survey: 07/10/05-07/17/05



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 8/17/2005
Model: Wmm_95

