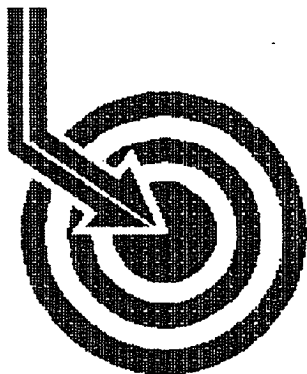


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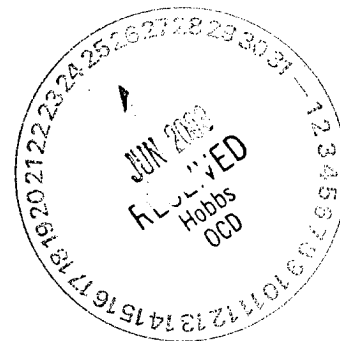


Scientific Drilling

SUR: M-29-18s-38e, 819/S & 239/W
BHL: M-29-18s-38e, 821/S & 1238/W
API # 30-025-35527

OCCIDENTAL PERMIAN LTD.

Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-814
Wellpath: DH - Job #32D0403173
Survey: 04/12/03-04/19/03



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

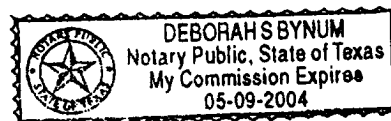
[Signature]

Company Representative

Notorized this date 27th of May, 2003.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas



Scientific Drilling Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 5/26/2003	Time: 11:30:24	Page: 1
Field: North Hobbs	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: NHU #29-814	Section (VS) Reference:	Well (0.00N,0.00E,307.04Azi)	
Wellpath: VH - Job #32K0403175	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/14/03	Start Date:	4/14/2003
Company: KSRG 0'-1595'	Engineer:	Jeff Cossey
Tool: Scientific Drilling	Tied-to:	From Surface
Keeper, Keeper Surface Readout		

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.74	286.97	100.0	0.6	0.2	-0.6	0.74	0.6	286.97
200.0	1.28	306.21	200.0	2.3	1.0	-2.1	0.63	2.4	295.89
300.0	1.41	309.91	300.0	4.7	2.5	-4.0	0.16	4.7	301.98
400.0	1.35	314.58	399.9	7.1	4.1	-5.8	0.13	7.1	305.44
500.0	1.17	315.37	499.9	9.3	5.7	-7.3	0.18	9.3	307.69
600.0	1.04	321.78	599.9	11.1	7.1	-8.6	0.18	11.1	309.53
700.0	1.02	329.73	699.9	12.8	8.6	-9.6	0.14	12.9	311.75
800.0	0.74	330.97	799.9	14.2	9.9	-10.4	0.28	14.3	313.70
900.0	0.09	54.56	899.9	14.8	10.5	-10.6	0.74	14.9	314.73
1000.0	0.05	94.36	999.9	14.8	10.6	-10.5	0.06	14.9	315.13
1100.0	0.11	143.12	1099.9	14.6	10.5	-10.4	0.09	14.8	315.19
1200.0	0.28	154.50	1199.9	14.3	10.2	-10.2	0.17	14.4	314.82
1300.0	0.35	151.83	1299.8	13.8	9.7	-10.0	0.07	13.9	314.11
1400.0	0.22	172.13	1399.8	13.4	9.2	-9.8	0.16	13.5	313.22
1500.0	0.40	210.99	1499.8	13.2	8.7	-10.0	0.27	13.3	311.22
1595.0	0.81	235.31	1594.8	13.4	8.1	-10.7	0.50	13.4	307.04

Scientific Drilling Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-814
Wellpath: DH - Job #32D0403173

Date: 5/26/2003 **Time:** 11:37:13 **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,89.89Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 04/12/03-04/19/03
 E-field 1655'-4617'
Company: Scientific Drilling
Tool:

Start Date: 4/12/2003
Engineer: Brusenhan, Drake
Tied-to: From: Definitive Path

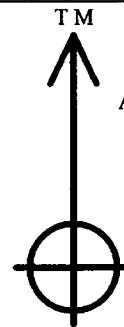
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1595.0	0.81	235.31	1594.8	-10.7	8.1	-10.7	0.00	13.4	307.04
1655.0	0.50	139.90	1654.8	-10.9	7.6	-10.9	1.65	13.3	305.06
1750.0	1.90	34.80	1749.8	-9.7	8.6	-9.7	2.20	13.0	311.55
1844.0	5.40	50.30	1843.6	-5.4	12.7	-5.4	3.84	13.8	336.90
1938.0	7.30	56.80	1937.0	3.0	18.8	3.0	2.16	19.1	8.98
2032.0	8.70	62.80	2030.1	14.3	25.3	14.3	1.73	29.1	29.43
2127.0	9.80	75.40	2123.9	28.6	30.7	28.5	2.42	41.9	42.92
2222.0	11.10	85.80	2217.3	45.5	33.4	45.5	2.41	56.4	53.72
2316.0	13.40	91.10	2309.2	65.4	33.8	65.4	2.72	73.6	62.65
2410.0	15.60	91.30	2400.2	89.0	33.3	88.9	2.34	94.9	69.45
2505.0	17.50	93.50	2491.2	116.0	32.2	115.9	2.11	120.3	74.49
2599.0	18.90	93.80	2580.5	145.3	30.3	145.2	1.49	148.4	78.22
2692.0	20.30	94.90	2668.1	176.4	27.9	176.3	1.56	178.5	81.00
2787.0	21.70	93.50	2756.8	210.3	25.4	210.3	1.57	211.8	83.10
2882.0	23.70	93.80	2844.5	246.9	23.1	246.9	2.11	248.0	84.65
2976.0	25.10	93.50	2930.1	285.7	20.6	285.6	1.50	286.4	85.87
3070.0	25.10	92.70	3015.2	325.5	18.5	325.4	0.36	326.0	86.75
3165.0	25.40	93.00	3101.1	365.9	16.5	365.9	0.34	366.3	87.42
3259.0	25.30	94.40	3186.1	406.1	13.9	406.1	0.65	406.3	88.05
3356.0	26.00	92.70	3273.5	448.0	11.3	448.0	1.05	448.1	88.56
3450.0	26.00	91.80	3358.0	489.2	9.7	489.2	0.42	489.2	88.87
3548.0	24.80	91.30	3446.5	531.2	8.5	531.2	1.24	531.2	89.08
3639.0	23.20	91.00	3529.7	568.2	7.8	568.2	1.76	568.2	89.22
3702.0	24.10	92.40	3587.4	593.4	7.0	593.4	1.68	593.5	89.32
3796.0	25.00	92.70	3672.9	632.5	5.3	632.5	0.97	632.5	89.52
3891.0	24.80	92.90	3759.0	672.4	3.3	672.4	0.23	672.4	89.72
3954.0	25.30	91.50	3816.1	699.1	2.3	699.1	1.23	699.1	89.81
4017.0	25.60	90.60	3873.0	726.1	1.8	726.1	0.78	726.1	89.86
4111.0	26.10	89.20	3957.6	767.1	1.9	767.1	0.84	767.1	89.86
4174.0	26.10	88.90	4014.2	794.8	2.3	794.8	0.21	794.8	89.83
4268.0	26.70	89.30	4098.4	836.6	3.0	836.6	0.67	836.6	89.80
4362.0	26.80	89.30	4182.3	878.9	3.5	878.9	0.11	878.9	89.77
4456.0	27.60	90.60	4265.9	921.9	3.5	921.9	1.06	921.9	89.78
4520.0	28.50	91.40	4322.4	952.0	3.0	952.0	1.52	952.0	89.82
4617.0	28.50	91.40	4407.6	998.2	1.9	998.2	0.00	998.2	89.89



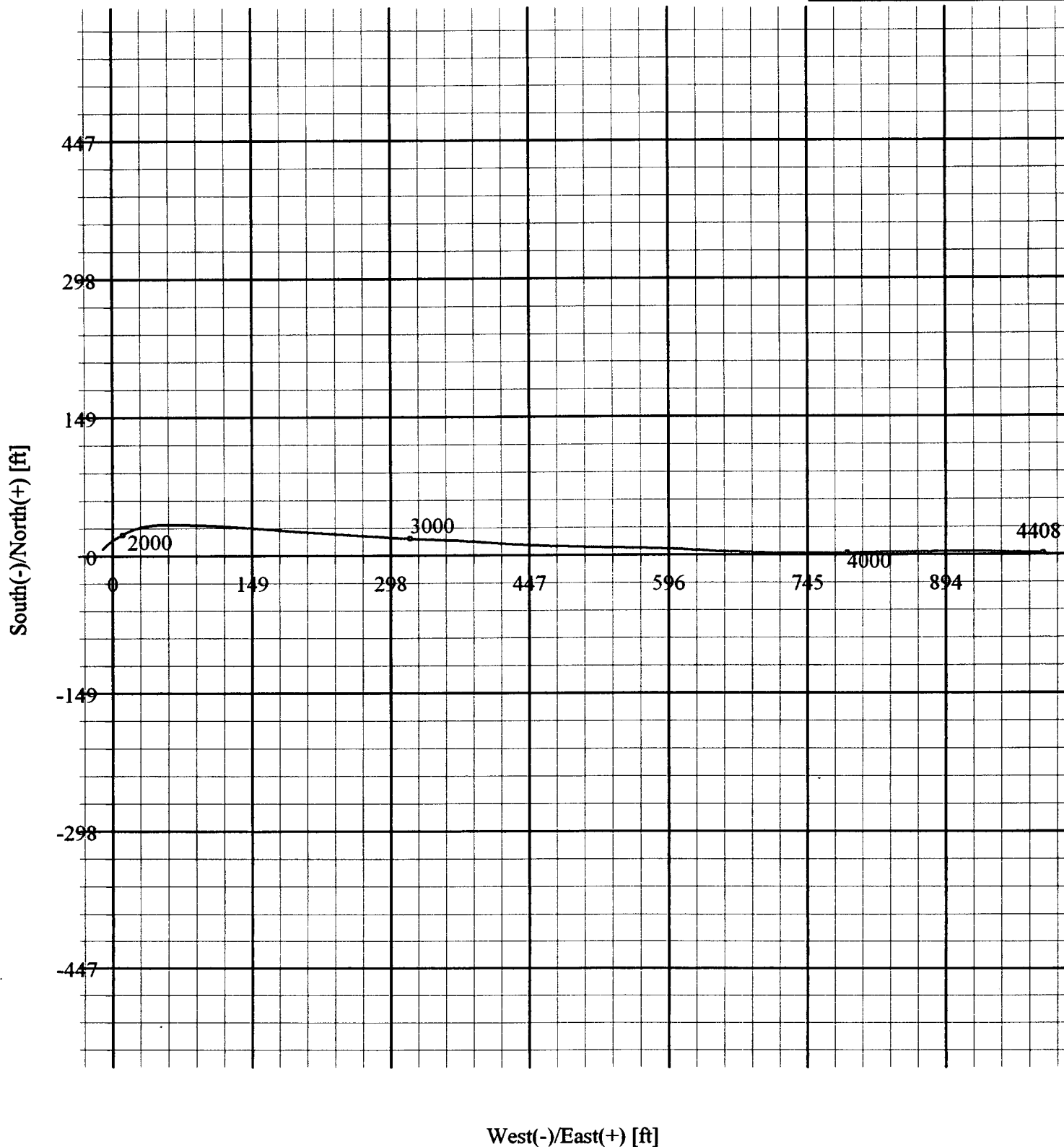
**Scientific
Drilling**

Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-814
Wellpath: DH - Job #32D0403173
Survey: 04/12/03-04/19/03



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 5/26/2003
Model: Wmm_95





KEY ENERGY DRILLING, INC.
6 Desta Drive
Suite 4400
Midland, Texas 79705
Phone 915-570-0494
Fax 915-570-0465

COPY

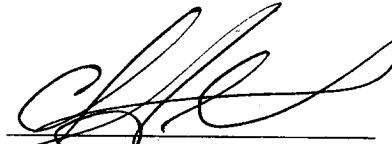
To: Whom It May Concern:

RE: STATE OF NEW MEXICO
OIL AND GAS DIVISION
INCLINATION REPORT

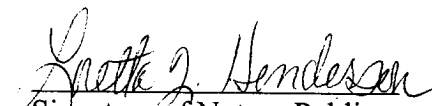
Lease Name: North Hobbs Unit
Well Number: #29-814
County/State: LEA COUNTY, NEW MEXICO
Operator: OCCIDENTAL PERMIAN, LTD.
Address: P O BOX 4294
Address: HOUSTON, TX 77210-4294
Location:

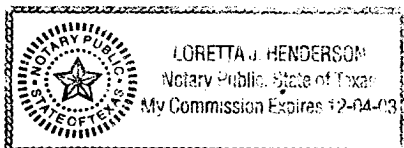
I, **CHOYR GILBERT**, Contract Manager for Key Energy Drilling, Inc., 6 Desta Drive, Suite 4400, Midland, TX 79705, declare that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on this form and that such data and facts are true, correct, and complete to the best of my knowledge.

Sworn to and Subscribed Before Me by the said


CHOYR GILBERT
Contract Manager

This the 7TH day of MAY, 2003


Signature of Notary Public
In and for the State of Texas



LORETTA J. HENDERSON
Print Name of Notary Public

**STATE OF NEW MEXICO
OIL AND GAS DIVISION**

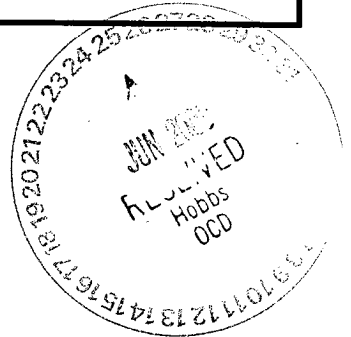
INCLINATION REPORT

FIELD NAME Hobbs; Grayburg-San Andres	LEASE NAME NORTH HOBBS G/SA Unit	WELL NUMBER 814
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OPERATOR OCCIDENTAL PERMIAN Limited Partnership	COUNTY LEA
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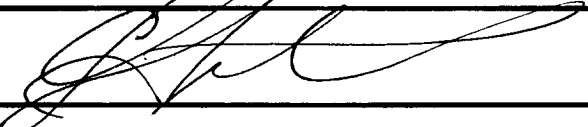
ADDRESS P O BOX 4294, HOUSTON, TEXAS 77210-4294

LOCATION Letter M, Section 29, T-18-S, R-38-E



RECORD OF INCLINATION

MEASURED DEPTH FEET	COURSE LENGTH HUNDREDS OF FEET	ANGLE OF INCLINATION DEGREE	DISPLACEMENT PER HUNDRED FEET	COURSE DISPLACEMENT FEET	ACCUMULATIVE DISPLACEMENT
448	4.48	1.500	2.62	11.73	11.73
697	2.49	1.000	1.75	4.35	16.07
977	2.80	0.750	1.31	3.67	19.74
1229	2.52	0.750	1.31	3.30	23.04
1481	2.52	0.250	0.44	1.10	24.14
1655	1.74	0.500	0.87	1.52	25.65
1844	1.89	5.400	9.41	17.79	43.44
1938	0.94	7.300	12.71	11.94	55.39
2032	0.94	8.700	15.13	14.22	69.60
2127	0.95	9.800	17.02	16.17	85.77
2222	0.95	11.100	19.25	18.29	104.06
2316	0.94	13.400	23.17	21.78	125.85
2410	0.94	15.600	26.89	25.28	151.13
2505	0.95	17.500	30.07	28.57	179.69
2599	0.94	18.900	32.39	30.45	210.14
2692	0.93	20.300	34.69	32.27	242.41
2787	0.95	21.700	36.97	35.13	277.53
2882	0.95	23.700	40.19	38.19	315.72
2976	0.94	25.100	42.42	39.87	355.59
3070	0.94	25.100	42.42	39.87	395.47
3165	0.95	25.400	42.89	40.75	436.22
3259	0.94	25.300	42.74	40.17	476.39
3356	0.97	26.000	43.84	42.52	518.91
3450	0.94	26.000	43.84	41.21	560.12
3548	0.98	24.800	41.95	41.11	601.22
3639	0.91	23.200	39.39	35.85	637.07
3702	0.63	24.100	40.83	25.72	662.80
3796	0.94	25.000	42.26	39.73	702.52
3891	0.95	24.800	41.95	39.85	742.37
3954	0.63	25.300	42.74	26.92	769.29
4017	0.63	25.600	43.21	27.22	796.51
4111	0.94	26.100	43.99	41.35	837.87
4340	2.29	26.700	44.93	102.89	940.76

 CHOYR GILBERT - CONTRACT MANAGER	NAME OF COMPANY KEY ENERGY DRILLING, INC.
	TELEPHONE NUMBER (915) 620-0300