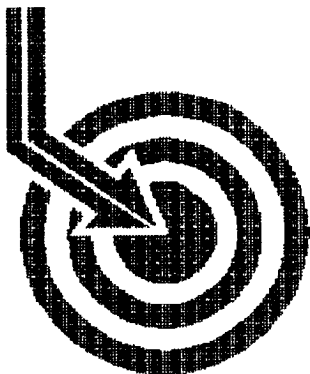




Scientific Drilling

OXY PERMIAN

Field: North Hobbs
Site: Lea County, NM
Well: NHU #28-644
Wellpath: DD - Job #32D0101044/K049
Survey: 1/24/01-2/4/01

30-025-35349

SUR: 1639/54 638w
L-27-18s-38e

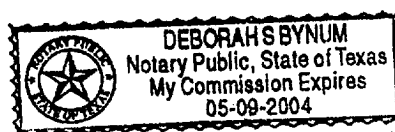
BHL: 1012/54 338E
P-28-18s-38e

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

Debrah Bynum.....Company Representative

Notorized this date 20th of March, 2001.

Debrah Bynum
Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: OXY PERMIAN Field: North Hobbs Site: Lea County, NM Well: NHU #28-644 Wellpath: DD - Job #32D0101044/K049	Date: 3/20/2001 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 11:21:23 Site: Lea County, NM, True North SITE 0.0 above Mean Sea Level Well (0.0E,0.0N,237.3Azi) Minimum Curvature	Page: 1
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Survey: 1/24/01-2/4/01 KSRG 0'-1630 & ST 1726'-4556'	Start Date: 3/20/2001	
Company: Scientific Drilling Internatio Tool: Eye II	Engineer: DeSpain/Brusenhan	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00
100.0	0.86	193.02	100.0	0.5	-0.7	-0.2	0.8	193.02
200.0	1.08	233.76	200.0	2.0	-2.0	-1.1	2.3	208.54
300.0	1.37	236.39	300.0	4.2	-3.2	-2.9	4.3	221.39
400.0	1.30	240.10	399.9	6.5	-4.5	-4.8	6.6	227.26
500.0	1.47	237.99	499.9	8.9	-5.7	-6.9	9.0	230.40
600.0	1.49	238.30	599.9	11.5	-7.1	-9.1	11.5	232.13
700.0	1.49	247.46	699.8	14.1	-8.3	-11.4	14.1	234.10
800.0	1.59	258.93	799.8	16.6	-9.0	-14.0	16.6	237.14
900.0	1.70	264.15	899.8	19.2	-9.4	-16.8	19.3	240.68
1000.0	1.85	275.07	999.7	21.8	-9.4	-19.9	22.0	244.59
1100.0	2.24	280.65	1099.6	24.5	-8.9	-23.4	25.1	249.10
1200.0	2.44	289.94	1199.6	27.3	-7.9	-27.3	28.4	253.97
1300.0	3.30	308.41	1299.4	29.5	-5.3	-31.6	32.0	260.40
1400.0	3.66	311.73	1399.3	31.3	-1.4	-36.2	36.3	267.74
1500.0	3.34	309.26	1499.1	33.0	2.5	-40.9	40.9	273.56
1600.0	3.27	306.73	1598.9	34.9	6.1	-45.4	45.8	277.64
1630.0	3.16	306.20	1628.9	35.5	7.1	-46.8	47.3	278.62
1726.0	3.70	272.90	1724.7	39.0	8.8	-52.0	52.7	279.62
1820.0	6.10	255.20	1818.3	46.2	7.7	-59.9	60.3	277.32
1910.0	8.40	246.60	1907.6	57.3	3.9	-70.5	70.6	273.13
2003.0	10.70	238.30	1999.3	72.6	-3.4	-84.1	84.2	267.70
2097.0	12.30	228.20	2091.5	91.2	-14.6	-99.0	100.1	261.58
2192.0	15.30	228.10	2183.7	113.6	-29.8	-115.9	119.6	255.59
2286.0	18.20	229.50	2273.7	140.4	-47.6	-136.3	144.3	250.75
2382.0	21.00	228.70	2364.1	172.2	-68.7	-160.6	174.7	246.85
2476.0	23.80	228.90	2451.0	207.7	-92.3	-187.5	209.0	243.80
2570.0	27.30	231.30	2535.8	247.9	-118.2	-218.7	248.6	241.60
2661.0	28.70	233.50	2616.2	290.4	-144.3	-252.5	290.8	240.26
2753.0	28.80	233.50	2696.8	334.6	-170.6	-288.1	334.8	239.37
2846.0	28.60	233.70	2778.4	379.2	-197.1	-324.0	379.3	238.69
2941.0	28.30	232.60	2861.9	424.3	-224.2	-360.3	424.3	238.10
3035.0	27.80	233.10	2944.9	468.4	-250.9	-395.5	468.4	237.61
3130.0	27.40	232.60	3029.1	512.2	-277.5	-430.6	512.2	237.20
3223.0	27.40	237.00	3111.7	555.0	-302.2	-465.5	555.0	237.01
3317.0	27.10	236.50	3195.2	598.0	-325.8	-501.5	598.0	236.99
3411.0	26.90	236.10	3279.0	640.7	-349.4	-537.0	640.7	236.95
3504.0	26.30	237.30	3362.1	682.3	-372.3	-571.8	682.3	236.93
3598.0	25.30	238.80	3446.8	723.2	-394.0	-606.5	723.2	236.99
3691.0	28.20	237.40	3529.8	765.1	-416.1	-642.0	765.1	237.05
3783.0	28.70	235.10	3610.7	808.9	-440.4	-678.5	808.9	237.01
3844.0	28.40	235.90	3664.3	838.0	-457.0	-702.5	838.0	236.96
3932.0	25.60	236.70	3742.7	878.0	-479.1	-735.7	878.0	236.93
4028.0	23.00	237.30	3830.2	917.5	-500.7	-768.8	917.5	236.93
4124.0	23.60	238.10	3918.3	955.4	-520.9	-800.9	955.4	236.96
4217.0	25.80	239.70	4002.8	994.3	-541.0	-834.2	994.3	237.04
4310.0	27.50	237.10	4085.9	1036.0	-562.9	-869.7	1036.0	237.09
4403.0	30.40	239.70	4167.3	1081.0	-586.4	-908.1	1081.0	237.15

Scientific Drilling International

Survey Report

Company: OXY PERMIAN
Field: North Hobbs
Site: Lea County, NM
Well: NHU #28-644
Wellpath: DD - Job #32D0101044/K049

Date: 3/20/2001 **Time:** 11:21:23 **Page:** 2
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,237.3Azi)
Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
4465.0	30.90	239.50	4220.7	1112.5	-602.4	-935.3	1112.5	237.22
4556.0	30.90	239.50	4298.7	1159.2	-626.1	-975.6	1159.2	237.31



KEY ENERGY DRILLING, INC.
P.O. Box 1295
Midland, Texas 79702
Phone 915-570-0494
Fax 915-570-0465

To: Whom It May Concern:

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

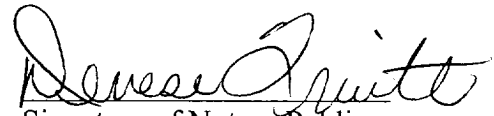
Lease Name: NORTH HOBBS UNITS
Well Number: #28-644
County/State: LEA, NM
Operator: OCCIDENTAL PERMIAN, LTD.
Address: P. O. BOX 4294
Address: HOUSTON, TX 77210-4294
Location:

I, **CHOYR GILBERT**, Contract Manager for Key Energy Drilling, Inc., PO Box 1295, Midland, TX 79702, 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.

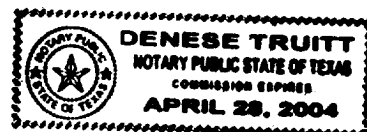
Sworn to and Subscribed Before Me by the said


CHOYR GILBERT
Contract Manager

This the 30th day of March, 2001


Signature of Notary Public
In and for the State of Texas

DENESE TRUITT
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 644
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OPERATOR Occidental Permian Limited Partnership	COUNTY Lea, NM
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ADDRESS P.O. Box 4294, Houston, TX 77210-4294

LOCATION Letter P, Section 28, 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
209	2.09	0.50	0.87	1.82	1.82
444	2.35	2.25	3.93	9.23	11.05
680	2.36	2.00	3.49	8.24	19.29
928	2.48	2.50	4.36	10.82	30.10
1152	2.24	2.50	4.36	9.77	39.87
1598	4.46	1.50	2.62	11.67	51.55
1630	0.32	3.16	5.51	1.76	53.31
1726	0.96	3.70	6.45	6.20	59.51
1820	0.94	6.10	10.63	9.99	69.50
1910	0.90	8.40	14.61	13.15	82.64
2003	0.93	10.70	18.57	17.27	99.91
2097	0.94	12.30	21.30	20.02	119.94
2192	0.95	15.30	26.39	25.07	145.00
2286	0.94	18.20	31.23	29.36	174.36
2382	0.96	21.00	35.84	34.40	208.77
2476	0.94	23.80	40.35	37.93	246.70
2570	0.94	27.30	45.86	43.11	289.81
2661	0.91	28.70	48.02	43.70	333.51
2753	0.92	28.80	48.18	44.32	377.84
2846	0.93	28.60	47.87	44.52	422.35
2941	0.95	28.30	47.41	45.04	467.39
3035	0.94	27.80	46.64	43.84	511.23
3130	0.95	27.40	46.02	43.72	554.95
3223	0.93	27.40	46.02	42.80	597.75
3317	0.94	27.10	45.55	42.82	640.57
3411	0.94	26.90	45.24	42.53	683.10
3504	0.93	26.30	44.31	41.21	724.31
3598	0.94	25.30	42.74	40.17	764.48
3691	0.93	28.20	47.26	43.95	808.42
3783	0.92	28.70	48.02	44.18	852.61
3844	0.61	28.40	47.56	29.01	881.62
3932	0.88	25.60	43.21	38.02	919.64
4028	0.96	23.00	39.07	37.51	957.15

THIS INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNATURE OF AUTHORIZED REPRESENTATIVE 	NAME OF COMPANY KEY ENERGY DRILLING, INC.
NAME OF PERSON AND TITLE CHOYR GILBERT - CONTRACT MANAGER	TELEPHONE NUMBER (915) 570-0494

INCLINATION REPORT

LOCATION
Letter P, Section 28, T-18-S, R-38-E

SIGNATURE OF AUTHORIZED REPRESENTATIVE 	NAME OF COMPANY KEY ENERGY DRILLING, INC.
NAME OF PERSON AND TITLE CHOYR GILBERT - CONTRACT MANAGER	TELEPHONE NUMBER (915) 570-0494