



Scientific Drilling

OXY PERMIAN

Field: North Hobbs
Site: Lea County, NM
Well: NHU #32-844
Wellpath: DH - Job #32D0501262
Survey: 5/6/01-5/11/01

3D-025-35534

SUR: M-33-18-38
1051/S & 217/W

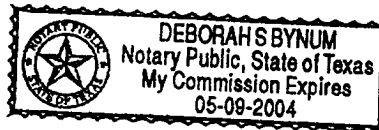
BAL: P-32-18-38
616/S & 46/E

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

Sharto.....Company Representative

Notorized this date 17th of July, 2001.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Survey: 5/7/01 Client: North Hobbs Location: Lea County, NM Well: NEU K32-844 Wellpath: 5/11/00 K32K0501272	Date: 7/17/2001 Co-ordinate(NE) Reference: Sta Lea County, NM 7/01 North Vertical (TYD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Well (0.0E,0.0N,210.0Az) Survey Calculation Method: Minimum Curvature
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Survey: 5/7/01
KSRG 0'-1530'

Start Date: 6/5/2001

Company: Scientific Drilling International
Tool: Keeper

Engineer: Angel Guebara

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	1.01	8.19	100.0	-0.8	0.9	0.1	0.9	8.19
200.0	1.16	15.01	200.0	-2.6	2.7	0.5	2.8	10.68
300.0	1.02	10.42	300.0	-4.4	4.6	0.9	4.7	11.57
400.0	0.77	12.40	399.9	-5.9	6.1	1.2	6.2	11.49
500.0	0.45	29.70	499.9	-6.9	7.1	1.6	7.3	12.54
600.0	0.23	73.48	599.9	-7.5	7.5	2.0	7.8	14.69
700.0	0.17	105.97	699.9	-7.7	7.5	2.3	7.9	17.03
800.0	0.25	70.18	799.9	-7.9	7.6	2.7	8.0	19.34
900.0	0.35	129.42	899.9	-8.0	7.4	3.1	8.0	22.59
1000.0	0.43	165.30	999.9	-7.7	6.9	3.4	7.7	26.47
1100.0	0.24	209.34	1099.9	-7.2	6.3	3.4	7.2	28.35
1200.0	0.36	215.11	1199.9	-6.7	5.9	3.1	6.7	28.00
1300.0	0.53	183.54	1299.9	-5.9	5.2	2.9	5.9	29.47
1400.0	0.52	172.78	1399.9	-5.2	4.3	3.0	5.2	34.72
1500.0	1.38	146.72	1499.9	-4.3	2.8	3.7	4.6	52.62
1530.0	1.61	147.07	1529.9	-3.9	2.1	4.1	4.6	62.34

Scientific Drilling International

Survey Report

Company: OXY PERMAN	Date: 7/17/2001	Time: 1129.05	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 above Mean Sea Level	
Well: NHRJ #32-844	Section (VS) Reference:	Well (0.0E 0.0N 210.0Az)	
Wellpath: DH Job #32D0501262	Survey Calculation Method:	Minimum Curvature	

Survey: 5/6/01-5/11/01
MWD 1605'-4377'

Start Date: 6/5/2001

Company: SDI w/Unidril
Tool: MWD

Engineer: Brusenhan/Grosse

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
1530.0	1.61	147.07	1529.9	-3.9	2.1	4.1	4.6	62.34
1605.0	1.50	167.40	1604.9	-2.7	0.3	4.9	4.9	86.43
1669.0	2.60	184.70	1668.8	-0.8	-2.0	4.9	5.3	111.61
1765.0	4.10	199.90	1764.7	4.6	-7.4	3.6	8.2	153.92
1859.0	6.20	208.40	1858.3	12.9	-15.0	0.0	15.0	179.84
1954.0	8.10	213.20	1952.5	24.8	-25.1	-6.1	25.8	193.58
2047.0	9.80	210.50	2044.4	39.2	-37.4	-13.7	39.8	200.08
2139.0	11.90	212.70	2134.8	56.5	-52.1	-22.8	56.9	203.59
2231.0	12.90	211.50	2224.6	76.3	-68.9	-33.3	76.5	205.78
2325.0	13.20	211.90	2316.2	97.5	-86.9	-44.4	97.6	207.06
2419.0	13.30	212.90	2407.7	119.0	-105.1	-56.0	119.1	208.03
2511.0	13.20	216.50	2497.2	140.0	-122.4	-68.0	140.0	209.03
2601.0	11.50	212.70	2585.1	159.2	-138.3	-78.9	159.2	209.72
2695.0	12.70	214.50	2677.1	178.9	-154.7	-89.8	178.9	210.15
2788.0	12.10	216.40	2767.9	198.7	-170.9	-101.4	198.7	210.68
2878.0	12.80	213.00	2855.8	218.1	-186.9	-112.4	218.1	211.03
2939.0	12.40	214.30	2915.3	231.3	-198.0	-119.8	231.4	211.18
3034.0	12.40	209.00	3008.1	251.7	-215.3	-130.5	251.8	211.22
3129.0	12.50	206.80	3100.9	272.2	-233.4	-140.1	272.2	210.97
3224.0	11.40	208.00	3193.8	291.8	-250.9	-149.1	291.8	210.73
3318.0	10.40	208.50	3286.1	309.6	-266.5	-157.5	309.6	210.58
3412.0	9.30	211.60	3378.7	325.7	-280.5	-165.6	325.7	210.55
3504.0	9.10	209.60	3469.5	340.4	-293.1	-173.0	340.4	210.56
3597.0	8.90	203.40	3561.4	354.9	-306.1	-179.5	354.9	210.39
3691.0	9.40	207.60	3654.2	369.8	-319.6	-186.0	369.8	210.20
3753.0	10.10	208.80	3715.3	380.3	-328.8	-190.9	380.3	210.14
3815.0	11.30	209.30	3776.2	391.8	-338.9	-196.5	391.8	210.11
3879.0	11.80	209.00	3838.9	404.6	-350.1	-202.8	404.6	210.08
3973.0	11.70	209.70	3931.0	423.7	-366.8	-212.2	423.7	210.05
4066.0	11.10	210.40	4022.1	442.1	-382.7	-221.4	442.1	210.05
4161.0	11.20	209.40	4115.3	460.5	-398.6	-230.5	460.5	210.04
4254.0	11.50	211.80	4206.5	478.8	-414.4	-239.8	478.8	210.06
4316.0	11.50	211.50	4267.3	491.1	-424.9	-246.3	491.1	210.10
4377.0	11.50	211.50	4327.0	503.3	-435.3	-252.7	503.3	210.14



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

To: Whom It May Concern:

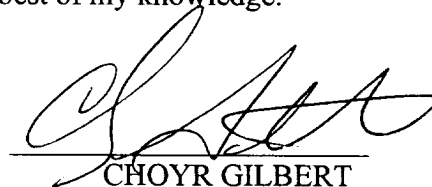
RE: STATE OF NEW MEXICO
OIL AND GAS DIVISION
INCLINATION REPORT

Lease Name: NORTH HOBBS UNIT
Well Number: #32-844
County/State: LEA, N.M.
Operator: OCCIDENTAL PERMIAN, LTD.
Address: P. O. BOX 4294
Address: HOUSTON, TEXAS 77210-4294
Location:

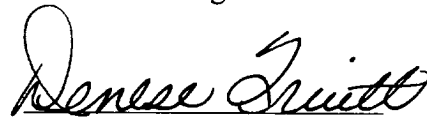
I, **CHOYR GILBERT**, Contract Manager for Key Energy Drilling, Inc., PO Box 1295, Midland, TX 79702, declare that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on this form and that such data and facts are true, correct, and complete to the best of my knowledge.

Sworn to and Subscribed Before Me by the said

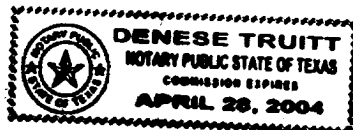
This the 22nd day of May, 2001



CHOYR GILBERT
Contract Manager



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 844
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OPERATOR OCCIDENTAL PERMIAN Limited Partnership	COUNTY LEA
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ADDRESS P. O. BOX 4294; HOUSTON, TEXAS 77210-4294
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LOCATION Letter P, Sec. 32, T-18-S, R-38-E
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RECORD OF INCLINATION

MEASURED DEPTH FEET	COURSE LENGTH HUNDREDS OF FEET	ANGLE OF INCLINATION DEGREE	DISPLACEMENT PER HUNDRED FEET	COURSE DISPLACEMENT FEET	ACCUMULATIVE DISPLACEMENT
208	2.08	1.000	1.75	3.63	3.63
416	2.08	1.000	1.75	3.63	7.26
896	4.80	1.000	1.75	8.38	15.64
1371	4.75	1.000	1.75	8.29	23.93
1497	1.26	1.000	1.75	2.20	26.13
1605	1.08	1.500	2.62	2.83	28.95
1669	0.64	2.600	4.54	2.90	31.86
1765	0.96	4.100	7.15	6.86	38.72
1859	0.94	6.200	10.80	10.15	48.87
1954	0.95	8.100	14.09	13.39	62.26
2047	0.93	9.800	17.02	15.83	78.09
2139	0.92	11.900	20.62	18.97	97.06
2231	0.92	12.900	22.33	20.54	117.60
2419	1.88	13.300	23.00	43.25	160.85
2601	1.82	13.200	22.84	41.56	202.41
2695	0.94	12.700	21.98	20.67	223.07
2878	1.83	12.800	22.15	40.54	263.62
3129	2.51	12.500	21.64	54.33	317.94
3224	0.95	11.400	19.77	18.78	336.72
3318	0.94	10.400	18.05	16.97	353.69
3412	0.94	9.300	16.16	15.19	368.88
3504	0.92	9.100	15.82	14.55	383.43
3597	0.93	8.900	15.47	14.39	397.82
3691	0.94	9.400	16.33	15.35	413.17
3753	0.62	10.100	17.54	10.87	424.04
3815	0.62	11.200	19.42	12.04	436.09
3879	0.64	11.800	20.45	13.09	449.17
3973	0.94	11.700	20.28	19.06	468.23
4066	0.93	11.100	19.25	17.90	486.14
4161	0.95	11.200	19.42	18.45	504.59
4254	0.93	11.500	19.94	18.54	523.13
4316	0.62	11.500	19.94	12.36	535.49
4377	0.61	11.500	19.94	12.16	547.66

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