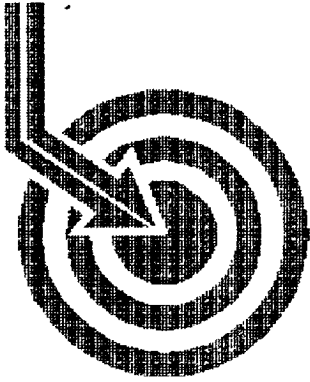




Scientific Drilling

OXY PERMIAN

3D-025-35384

Field: North Hobbs

Site: Lea County, NM

Well: NHU #29-634

Wellpath: DH - Job #32D0301165/K166

Survey: 3/21/01-3/28/01

8-29-185-38e

SUR: 753/s + 2087/e

BHL: 829/s + 1871/e

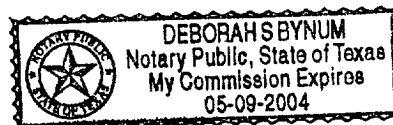
This survey is correct to the best of my knowledge
and is supported by actual field data.

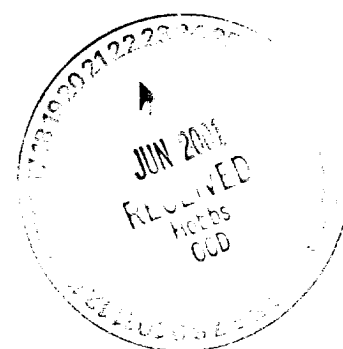
David Hardy Company Representative

Notorized this date 24th of May, 2001.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: OXY PERMIAN	Date: 5/23/2001	Time: 16:33:25	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: NHU #29-634	Section (VS) Reference:	Well (0.0E,0.0N,69.3Az)	
Wellpath: DH - Job #32D0301165/K166	Survey Calculation Method:	Minimum Curvature	

Survey: 3/21/01-3/28/01
KSRG 0'-2020'/ST 2104'-4316'

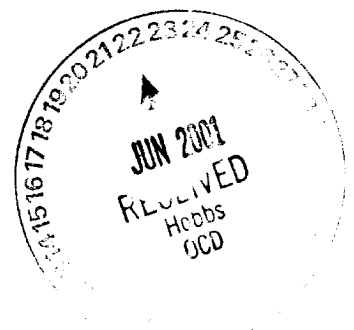
Start Date: 5/23/2001

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	1.24	43.99	100.0	1.0	0.8	0.8	1.1	43.99
200.0	1.24	47.08	200.0	3.0	2.3	2.3	3.2	45.02
300.0	1.12	53.79	299.9	4.9	3.6	3.9	5.3	47.05
400.0	0.67	38.95	399.9	6.3	4.6	5.0	6.8	47.32
500.0	0.68	60.49	499.9	7.4	5.4	5.9	8.0	47.68
600.0	0.55	62.75	599.9	8.5	5.9	6.9	9.0	49.30
700.0	0.58	74.89	699.9	9.5	6.3	7.8	10.0	51.20
800.0	0.20	44.95	799.9	10.1	6.5	8.4	10.6	52.20
900.0	0.07	88.08	899.9	10.4	6.6	8.6	10.8	52.27
1000.0	0.12	26.32	999.9	10.5	6.7	8.7	11.0	52.22
1100.0	0.14	137.53	1099.9	10.6	6.7	8.8	11.1	52.61
1200.0	0.06	54.02	1199.9	10.7	6.7	8.9	11.1	53.24
1300.0	0.43	85.87	1299.9	11.1	6.7	9.3	11.5	54.25
1400.0	0.54	82.01	1399.9	11.9	6.8	10.2	12.3	56.20
1500.0	0.49	53.12	1499.9	12.8	7.1	11.0	13.1	56.99
1600.0	0.13	67.23	1599.9	13.3	7.4	11.4	13.7	56.96
1700.0	0.72	111.53	1699.9	13.9	7.3	12.1	14.1	59.11
1800.0	1.00	118.01	1799.9	15.0	6.6	13.5	15.0	63.87
1900.0	0.87	100.78	1899.9	16.2	6.1	15.0	16.2	67.99
2000.0	0.91	101.98	1999.9	17.5	5.8	16.5	17.5	70.79
2020.0	0.89	90.47	2019.9	17.8	5.7	16.8	17.8	71.22
2104.0	1.80	52.60	2103.8	19.6	6.5	18.5	19.7	70.62
2199.0	2.10	50.20	2198.8	22.7	8.5	21.1	22.7	67.93
2290.0	4.10	53.70	2289.6	27.4	11.5	25.0	27.5	65.20
2384.0	4.30	48.20	2383.4	34.0	15.9	30.3	34.2	62.35
2477.0	5.80	67.60	2476.0	41.9	20.0	37.2	42.3	61.78
2571.0	5.30	67.70	2569.6	51.0	23.4	45.7	51.3	62.82
2665.0	5.70	71.80	2663.2	60.0	26.6	54.1	60.3	63.86
2758.0	5.10	76.50	2755.8	68.7	29.0	62.5	68.9	65.14
2852.0	5.30	76.30	2849.4	77.2	31.0	70.8	77.3	66.38
2947.0	5.90	69.20	2943.9	86.4	33.7	79.6	86.5	67.04
3041.0	5.00	73.60	3037.5	95.3	36.6	88.1	95.4	67.43
3135.0	3.80	76.00	3131.2	102.5	38.5	95.0	102.5	67.93
3228.0	4.60	70.00	3224.0	109.3	40.5	101.5	109.3	68.23
3322.0	4.70	63.60	3317.6	116.9	43.5	108.5	116.9	68.14
3416.0	4.80	71.50	3411.3	124.7	46.5	115.7	124.7	68.10
3505.0	4.80	72.20	3500.0	132.1	48.8	122.8	132.1	68.31
3600.0	5.20	70.80	3594.7	140.4	51.5	130.6	140.4	68.50
3662.0	4.50	74.00	3656.4	145.6	53.0	135.6	145.6	68.64
3724.0	4.60	81.80	3718.2	150.4	54.1	140.4	150.5	68.94
3786.0	5.20	79.90	3780.0	155.6	54.9	145.6	155.6	69.34
3878.0	6.50	67.50	3871.5	164.9	57.6	154.5	164.9	69.55
3938.0	5.60	64.40	3931.2	171.3	60.2	160.3	171.3	69.42
4001.0	5.40	66.40	3993.9	177.3	62.7	165.8	177.3	69.28
4093.0	6.20	65.80	4085.4	186.6	66.5	174.3	186.6	69.12
4122.0	6.00	65.00	4114.3	189.6	67.8	177.1	189.6	69.06
4217.0	6.20	66.70	4208.7	199.7	71.9	186.3	199.7	68.90



Scientific Drilling International

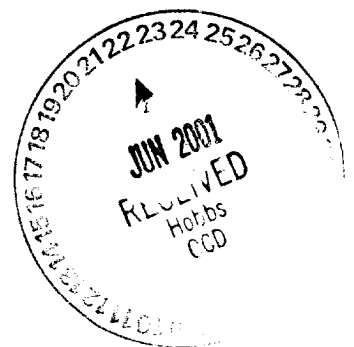
Survey Report

Company: OXY PERMIAN
Field: North Hobbs
Site: Lea County, NM
Well: NHU #29-634
Wellpath: DH - Job #32D0301165/K166

Date: 5/23/2001 Time: 16:33:25 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,69.3Azi)
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
4316.0	6.20	66.70	4307.2	210.4	76.1	196.1	210.4	68.79





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: #29-634
County/State: LEA, N.M.
Operator: OCCIDENTAL PERMIAN LTD.
Address: P. O. BOX 4294
Address: HOUSTON, TEXAS 77210-4294
Location:

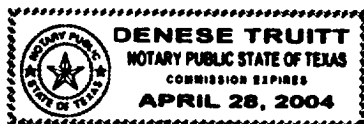
I, **CHOYR GILBERT**, Contract Manager for Key Energy Drilling, Inc., PO Box 1295, Midland, TX 79702, declare that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on this form and that such data and facts are true, correct, and complete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

Sworn to and Subscribed Before Me by the said

CHOYR GILBERT
Contract Manager

This the 11th day of April, 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 634
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OPERATOR OCCIDENTAL PERMIAN Limited Partnership	COUNTY LEA
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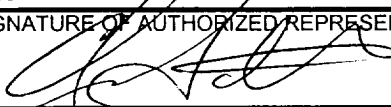
ADDRESS P. O. BOX 4294; HOUSTON, TEXAS 77210-4294

LOCATION Letter O, Sec. 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
432	4.32	1.000	1.75	7.54	7.54
803	3.71	1.000	1.75	6.47	14.01
1293	4.90	0.750	1.31	6.41	20.43
1770	4.77	1.000	1.75	8.32	28.75
2104	3.34	1.800	3.14	10.49	39.24
2199	0.95	2.100	3.66	3.48	42.73
2290	0.91	4.100	7.15	6.51	49.23
2384	0.94	4.300	7.50	7.05	56.28
2477	0.93	5.800	10.11	9.40	65.68
2571	0.94	5.300	9.24	8.68	74.36
2665	0.94	5.700	9.93	9.34	83.70
2758	0.93	4.100	7.15	6.65	90.35
2852	0.94	5.300	9.24	8.68	99.03
2947	0.95	5.900	10.28	9.77	108.79
3041	0.94	5.000	8.72	8.19	116.99
3135	0.94	3.800	6.63	6.23	123.22
3228	0.93	4.600	8.02	7.46	130.67
3322	0.94	4.700	8.19	7.70	138.38
3416	0.94	4.800	8.37	7.87	146.24
3505	0.89	4.800	8.37	7.45	153.69
3600	0.95	5.200	9.06	8.61	162.30
3662	0.62	4.500	7.85	4.86	167.16
3724	0.62	4.600	8.02	4.97	172.14
3786	0.62	5.200	9.06	5.62	177.76
3878	0.92	6.500	11.32	10.41	188.17
3938	0.60	5.600	9.76	5.85	194.03
4001	0.63	5.400	9.41	5.93	199.95
4093	0.92	6.200	10.80	9.94	209.89
4122	0.29	6.000	10.45	3.03	212.92
4217	0.95	6.200	10.80	10.26	223.18
4316	0.99	6.200	10.80	10.69	233.87
	-43.16		0.00	0.00	233.87
	0.00		0.00	0.00	233.87

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

