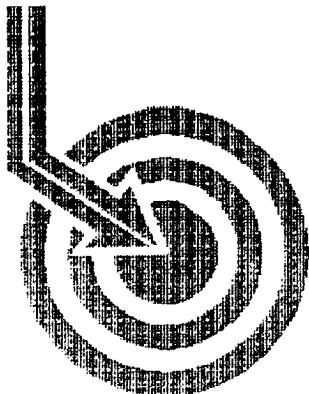




Scientific Drilling

CHEVRONTEXACO

Field: Teague
Site: Lea County, NM
Well: Fanning "4" #2
Wellpath: VH - Job #32K0202045
Survey: 2/4/02

SUR: G-4-24s-37e, 1700/N & 1955/E
BHL: 1529/N & 1661/E
30-025-35731

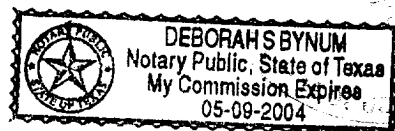
This survey is correct to the best of my knowledge
and is supported by actual field data.

Prof. Noddy Company Representative

Notorized this date 5th of February, 2002.

Deborah S. Bynum

Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: CHEVRONTEXACO
Field: Teague
Site: Lea County, NM
Well: Fanning "4" #2
Wellpath: VH - Job #32K0202045

Date: 2/5/2002 Time: 14:53:14 Page: 1
Co-ordinate(N/E) 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, 60.0Azi)
Survey Calculation Method: Minimum Curvature

Survey: 2/4/02
KSRG 0'-11100'

Start Date: 2/5/2002

Company: Scientific Drilling International
Tool: Keeper

Engineer: Gary DeSpain

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	0.23	215.31	100.0	-0.2	-0.2	-0.1	0.2	215.31
200.0	0.25	205.81	200.0	-0.5	-0.5	-0.3	0.6	211.97
300.0	0.23	228.44	300.0	-0.9	-0.9	-0.6	1.0	213.84
400.0	0.42	209.70	400.0	-1.3	-1.3	-0.9	1.6	214.71
500.0	0.46	211.60	500.0	-2.0	-2.0	-1.3	2.4	213.40
600.0	0.55	221.47	600.0	-2.7	-2.7	-1.8	3.2	214.37
700.0	0.65	217.10	700.0	-3.5	-3.5	-2.5	4.3	215.53
800.0	0.54	223.96	800.0	-4.3	-4.3	-3.2	5.3	216.44
900.0	0.66	229.64	900.0	-5.0	-5.0	-3.9	6.3	218.19
1000.0	0.58	231.17	1000.0	-5.7	-5.7	-4.8	7.4	219.95
1100.0	0.41	247.06	1100.0	-6.1	-6.1	-5.5	8.2	221.78
1200.0	0.33	247.86	1200.0	-6.4	-6.4	-6.1	8.8	223.60
1300.0	0.22	255.21	1300.0	-6.5	-6.5	-6.5	9.2	224.95
1400.0	0.23	255.10	1400.0	-6.6	-6.6	-6.9	9.6	226.14
1500.0	0.23	269.44	1500.0	-6.7	-6.7	-7.3	9.9	227.50
1600.0	0.28	243.71	1600.0	-6.8	-6.8	-7.7	10.3	228.62
1700.0	0.12	272.44	1700.0	-6.9	-6.9	-8.0	10.6	229.36
1800.0	0.27	6.95	1800.0	-6.7	-6.7	-8.1	10.5	230.62
1900.0	0.63	32.33	1900.0	-6.0	-6.0	-7.8	9.8	232.57
2000.0	1.29	47.77	1999.9	-4.7	-4.7	-6.7	8.2	234.56
2100.0	1.47	48.79	2099.9	-3.1	-3.1	-4.9	5.8	237.16
2200.0	1.88	46.06	2199.9	-1.2	-1.2	-2.7	3.0	246.92
2300.0	1.97	46.73	2299.8	1.2	1.2	-0.3	1.2	345.85
2400.0	2.10	49.65	2399.7	3.5	3.5	2.4	4.2	33.80
2500.0	2.30	49.38	2499.7	6.0	6.0	5.3	8.0	41.27
2600.0	2.23	48.84	2599.6	8.6	8.6	8.3	11.9	43.86
2700.0	1.81	50.61	2699.5	10.9	10.9	10.9	15.4	45.18
2800.0	1.54	53.92	2799.5	12.7	12.7	13.3	18.3	46.28
2900.0	1.26	53.03	2899.5	14.1	14.1	15.2	20.8	47.13
3000.0	0.99	47.39	2999.4	15.4	15.4	16.7	22.7	47.42
3100.0	1.03	44.95	3099.4	16.6	16.6	18.0	24.5	47.33
3200.0	0.81	46.20	3199.4	17.7	17.7	19.2	26.1	47.22
3300.0	0.75	48.82	3299.4	18.6	18.6	20.2	27.5	47.23
3400.0	0.71	55.53	3399.4	19.4	19.4	21.2	28.7	47.45
3500.0	0.82	52.96	3499.4	20.2	20.2	22.2	30.0	47.74
3600.0	0.73	50.98	3599.4	21.0	21.0	23.3	31.4	47.93
3700.0	0.72	51.70	3699.4	21.8	21.8	24.3	32.7	48.06
3800.0	0.84	53.45	3799.4	22.7	22.7	25.4	34.0	48.24
3900.0	0.84	49.39	3899.3	23.6	23.6	26.5	35.5	48.37
4000.0	0.68	58.43	3999.3	24.4	24.4	27.6	36.8	48.56
4100.0	0.68	63.45	4099.3	24.9	24.9	28.6	38.0	48.94
4200.0	0.62	56.16	4199.3	25.5	25.5	29.6	39.1	49.26
4300.0	0.69	25.08	4299.3	26.3	26.3	30.3	40.2	49.00
4400.0	0.90	7.40	4399.3	27.7	27.7	30.7	41.3	47.94
4500.0	0.95	60.05	4499.3	28.9	28.9	31.5	42.7	47.48
4600.0	1.04	62.02	4599.3	29.7	29.7	33.0	44.4	48.01
4700.0	1.00	59.12	4699.3	30.6	30.6	34.5	46.1	48.49

Scientific Drilling International

Survey Report

Company: CHEVRONTEXACO
 Field: Teague
 Site: Lea County, NM
 Well: Fanning "4" #2
 Wellpath: VH - Job #32K0202045

Date: 2/5/2002

Time: 14:53:14

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,60.0Azi)

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
4800.0	1.04	58.56	4799.3	31.5	31.5	36.1	47.9	48.88
4900.0	1.04	59.03	4899.2	32.4	32.4	37.6	49.7	49.24
5000.0	1.08	55.77	4999.2	33.4	33.4	39.2	51.5	49.53
5100.0	1.11	59.86	5099.2	34.4	34.4	40.8	53.4	49.82
5200.0	1.14	65.16	5199.2	35.4	35.4	42.5	55.3	50.27
5300.0	1.10	66.26	5299.2	36.2	36.2	44.3	57.2	50.79
5400.0	1.00	70.73	5399.1	36.8	36.8	46.0	58.9	51.33
5500.0	0.90	82.04	5499.1	37.2	37.2	47.6	60.4	51.98
5600.0	1.07	81.45	5599.1	37.5	37.5	49.3	61.9	52.77
5700.0	1.04	80.61	5699.1	37.8	37.8	51.1	63.6	53.56
5800.0	0.95	81.48	5799.1	38.0	38.0	52.9	65.1	54.26
5900.0	0.96	79.56	5899.1	38.3	38.3	54.5	66.6	54.90
6000.0	0.90	88.06	5999.1	38.5	38.5	56.1	68.0	55.55
6100.0	0.93	83.28	6099.0	38.6	38.6	57.7	69.4	56.21
6200.0	0.84	78.28	6199.0	38.9	38.9	59.2	70.8	56.74
6300.0	0.83	75.85	6299.0	39.2	39.2	60.6	72.2	57.14
6400.0	0.99	58.84	6399.0	39.8	39.8	62.1	73.8	57.34
6500.0	1.09	49.78	6499.0	40.9	40.9	63.6	75.6	57.26
6600.0	1.32	49.74	6599.0	42.2	42.2	65.2	77.6	57.06
6700.0	1.36	47.79	6698.9	43.8	43.8	66.9	80.0	56.82
6800.0	1.30	49.07	6798.9	45.3	45.3	68.7	82.3	56.58
6900.0	1.43	51.18	6898.9	46.8	46.8	70.5	84.6	56.40
7000.0	1.74	54.76	6998.8	48.5	48.5	72.7	87.4	56.30
7100.0	1.86	59.74	7098.8	50.2	50.2	75.3	90.5	56.33
7200.0	1.81	59.28	7198.7	51.8	51.8	78.1	93.7	56.44
7300.0	1.80	60.25	7298.7	53.4	53.4	80.8	96.9	56.55
7400.0	1.71	70.16	7398.7	54.7	54.7	83.6	99.9	56.81
7500.0	1.66	68.04	7498.6	55.7	55.7	86.3	102.8	57.16
7600.0	1.81	68.65	7598.6	56.8	56.8	89.1	105.7	57.48
7700.0	1.96	74.73	7698.5	57.9	57.9	92.3	108.9	57.90
7800.0	1.92	76.24	7798.5	58.7	58.7	95.5	112.1	58.43
7900.0	1.78	85.75	7898.4	59.2	59.2	98.7	115.1	59.04
8000.0	1.81	87.13	7998.4	59.4	59.4	101.8	117.9	59.74
8100.0	1.70	84.13	8098.3	59.7	59.7	104.9	120.7	60.37
8200.0	1.64	84.50	8198.3	59.9	59.9	107.8	123.3	60.92
8300.0	1.84	88.41	8298.2	60.1	60.1	110.8	126.1	61.52
8400.0	1.99	91.55	8398.2	60.1	60.1	114.2	129.0	62.23
8500.0	2.33	91.47	8498.1	60.0	60.0	117.9	132.3	63.03
8600.0	2.39	93.31	8598.0	59.9	59.9	122.0	135.9	63.88
8700.0	2.58	96.97	8697.9	59.5	59.5	126.4	139.7	64.80
8800.0	3.06	88.20	8797.8	59.3	59.3	131.3	144.0	65.70
8900.0	3.41	78.55	8897.6	59.9	59.9	136.8	149.4	66.35
9000.0	4.04	76.07	8997.4	61.4	61.4	143.2	155.8	66.80
9100.0	4.55	71.90	9097.1	63.5	63.5	150.4	163.2	67.12
9200.0	4.64	68.52	9196.8	66.2	66.2	157.9	171.2	67.26
9300.0	4.76	70.38	9296.5	69.0	69.0	165.6	179.4	67.36
9400.0	4.55	67.27	9396.1	72.0	72.0	173.1	187.5	67.43
9500.0	4.37	64.31	9495.8	75.2	75.2	180.2	195.3	67.36
9600.0	4.01	65.80	9595.6	78.2	78.2	186.9	202.6	67.28
9700.0	3.71	78.07	9695.4	80.3	80.3	193.2	209.3	67.42
9800.0	3.38	80.96	9795.2	81.5	81.5	199.3	215.3	67.76
9900.0	3.86	74.33	9895.0	82.9	82.9	205.4	221.5	68.04

Scientific Drilling International

Survey Report

Company: CHEVRONTEXACO
Field: Teague
Site: Lea County, NM
Well: Fanning "4" #2
Wellpath: VH - Job #32K0202045

Date: 2/5/2002

Time: 14:53:14

Page: 3

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,60.0Azi)

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
10000.0	4.09	69.72	9994.7	85.0	85.0	212.0	228.4	68.16
10100.0	5.03	57.84	10094.4	88.6	88.6	219.1	236.3	67.99
10200.0	5.16	35.39	10194.0	94.6	94.6	225.4	244.4	67.24
10300.0	4.79	23.38	10293.6	102.1	102.1	229.7	251.3	66.04
10400.0	4.65	23.59	10393.3	109.6	109.6	232.9	257.4	64.80
10500.0	5.90	35.37	10492.9	117.5	117.5	237.5	265.0	63.68
10600.0	8.00	44.61	10592.1	126.7	126.7	245.4	276.2	62.70
10700.0	7.61	46.98	10691.2	136.1	136.1	255.1	289.2	61.92
10800.0	7.00	47.47	10790.4	144.8	144.8	264.5	301.5	61.30
10900.0	7.11	50.05	10889.7	152.9	152.9	273.7	313.5	60.82
11000.0	6.53	48.98	10988.9	160.6	160.6	282.7	325.1	60.41
11100.0	6.14	46.01	11088.3	168.0	168.0	290.9	335.9	59.99

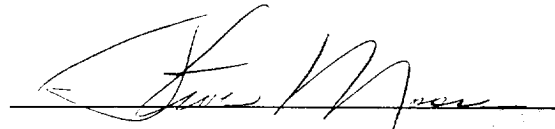
RECEIVED
 2/5/2002
 14:53:14
 32K0202045

OPERATOR: TEXACO E&P
WELL/LEASE: FANNING 4 #2
COUNTY: LEA

494-5024

STATE OF NEW MEXICO
DEVIATION REPORT

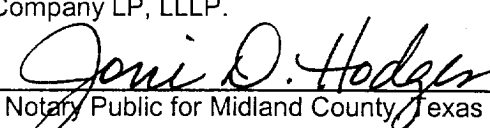
253	3/4	6,495	1 1/2
491	1/2	6,690	2
658	1	6,877	1 3/4
892	1/4	7,196	2 1/2
1,414	1/4	7,296	2 3/4
1,446	1/4	7,416	2
1,910	3/4	7,652	2 1/4
2,197	3/4	7,904	2 1/4
2,580	2 1/4	8,160	2
2,722	2	8,573	2 1/2
2,850	1 1/4	8,793	3
2,913	1 1/4	9,038	4 1/2
2,945	2 1/4	9,127	5
3,029	1 1/4	9,254	5 1/4
3,104	1 3/4	9,383	5
3,165	1 1/4	9,511	4 3/4
3,231	1 1/4	9,669	4
3,327	1	9,861	4
3,380	1/4	10,085	4 3/4
3,443	3/4	10,338	4 3/4
3,539	3/4	10,814	7 1/4
3,635	3/4		
3,700	1		
3,799	1/2		
4,054	1		
4,214	1		
4,487	1		
4,743	1 1/2		
5,029	1 1/2		
5,285	1 1/2		
5,571	3/4		
5,984	1 1/2		
6,239	3/4		

By: 

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 24th day of January, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.


Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

