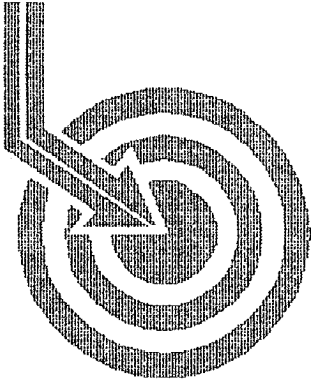


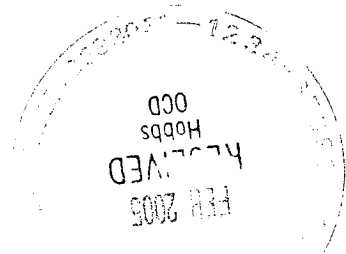
SUR: H-36-20s-37e, 2374/N & 511/E
BHL: H-36-20s-37e, 1905/N & 92/E
API # 30-025-26624



Scientific Drilling

CONOCOPHILLIPS

Field: Hardy
Site: Lea County, NM
Well: Hardy 36 State #28
Wellpath: VH - Job #32K1004641
Survey: 10/16/04

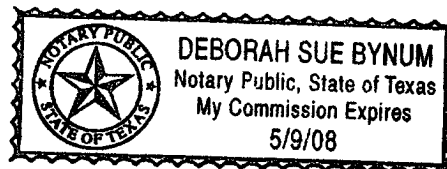


This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 8th of November, 2004.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Hardy
Site: Lea County, NM
Well: Hardy 36 State #28
Wellpath: VH - Job #32K1004641

Date: 11/7/2004 Time: 21:06:06 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,68.47Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/16/04
KSRG 0'-5588'

Start Date: 10/16/2004

Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Guebara/Foster/Gray
Tied-to: From Surface

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	359.46	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.47	47.05	100.0	0.4	0.3	0.3	0.47	0.4	47.05
200.0	0.46	47.16	200.0	1.1	0.8	0.9	0.01	1.2	47.09
300.0	0.52	44.75	300.0	1.9	1.4	1.5	0.06	2.1	46.59
400.0	0.52	43.14	400.0	2.8	2.1	2.1	0.01	3.0	45.79
500.0	0.46	44.03	500.0	3.5	2.7	2.7	0.06	3.8	45.29
600.0	0.43	48.60	600.0	4.2	3.2	3.3	0.05	4.6	45.45
700.0	0.25	62.72	700.0	4.8	3.6	3.8	0.20	5.2	46.39
800.0	0.30	104.51	800.0	5.2	3.6	4.2	0.20	5.6	49.32
900.0	0.37	114.27	900.0	5.7	3.4	4.8	0.09	5.9	54.29
1000.0	0.25	133.41	1000.0	6.0	3.1	5.2	0.16	6.1	58.94
1100.0	0.32	135.74	1100.0	6.2	2.8	5.6	0.07	6.2	63.38
1200.0	0.28	126.83	1200.0	6.4	2.4	6.0	0.06	6.4	67.70
1300.0	0.33	94.81	1300.0	6.8	2.3	6.4	0.17	6.8	70.56
1400.0	0.36	114.52	1400.0	7.3	2.1	7.0	0.12	7.3	73.20
1500.0	0.82	93.62	1500.0	8.2	1.9	8.0	0.50	8.2	76.38
1600.0	1.09	90.96	1599.9	9.7	1.9	9.7	0.27	9.9	79.00
1700.0	1.29	89.53	1699.9	11.6	1.9	11.8	0.20	11.9	80.94
1800.0	1.33	89.09	1799.9	13.8	1.9	14.0	0.04	14.2	82.29
1900.0	1.41	82.84	1899.9	16.0	2.1	16.4	0.17	16.5	82.80
2000.0	1.52	82.26	1999.8	18.5	2.4	19.0	0.11	19.1	82.77
2100.0	1.96	73.97	2099.8	21.5	3.1	21.9	0.51	22.1	82.06
2200.0	2.05	76.16	2199.7	25.0	4.0	25.3	0.12	25.6	81.11
2300.0	2.45	76.64	2299.7	28.9	4.9	29.1	0.40	29.5	80.49
2400.0	2.60	76.42	2399.6	33.2	5.9	33.4	0.15	33.9	79.97
2500.0	3.60	74.70	2499.4	38.6	7.3	38.6	1.00	39.3	79.35
2600.0	3.96	73.34	2599.2	45.2	9.1	45.0	0.37	45.9	78.58
2700.0	4.12	74.01	2698.9	52.2	11.1	51.7	0.17	52.9	77.93
2800.0	3.52	70.02	2798.7	58.8	13.1	58.1	0.66	59.5	77.28
2900.0	3.04	69.89	2898.6	64.5	15.1	63.4	0.48	65.2	76.64
3000.0	2.77	67.41	2998.4	69.6	16.9	68.2	0.30	70.2	76.07
3100.0	2.36	69.00	3098.3	74.1	18.6	72.3	0.42	74.7	75.60
3200.0	1.94	68.62	3198.3	77.8	19.9	75.8	0.42	78.4	75.28
3300.0	1.63	70.22	3298.2	80.9	21.0	78.7	0.31	81.5	75.05
3400.0	1.59	72.16	3398.2	83.8	21.9	81.4	0.07	84.3	74.92
3500.0	1.51	69.10	3498.1	86.5	22.8	83.9	0.12	87.0	74.79
3600.0	1.45	65.03	3598.1	89.0	23.8	86.3	0.12	89.5	74.57
3700.0	1.19	63.78	3698.1	91.3	24.8	88.4	0.26	91.8	74.32
3800.0	0.83	66.87	3798.1	93.1	25.6	90.0	0.36	93.5	74.14
3900.0	0.80	64.18	3898.0	94.5	26.2	91.3	0.05	95.0	74.01
4000.0	0.84	63.09	3998.0	95.9	26.8	92.6	0.04	96.4	73.86
4100.0	0.77	67.35	4098.0	97.3	27.4	93.8	0.09	97.8	73.74
4200.0	0.78	69.21	4198.0	98.7	27.9	95.1	0.03	99.1	73.66
4300.0	0.84	70.51	4298.0	100.1	28.4	96.4	0.06	100.5	73.61
4400.0	0.68	53.10	4398.0	101.4	29.0	97.6	0.28	101.8	73.47
4500.0	0.60	20.91	4498.0	102.3	29.8	98.2	0.36	102.7	73.12
4600.0	0.59	22.48	4598.0	103.0	30.8	98.6	0.02	103.3	72.67
4700.0	0.60	21.06	4698.0	103.8	31.7	99.0	0.02	104.0	72.23
4800.0	0.48	23.07	4798.0	104.4	32.6	99.4	0.12	104.6	71.83



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: CONOCOPHILLIPS
Field: Hardy
Site: Lea County, NM
Well: Hardy 36 State #28
Wellpath: VH - Job #32K1004641

Date: 11/7/2004 Time: 21:06:06 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,68.47Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.42	29.43	4898.0	105.0	33.3	99.7	0.08	105.1	71.52
5000.0	0.50	4.51	4998.0	105.5	34.1	99.9	0.21	105.6	71.17
5100.0	0.51	6.42	5098.0	105.9	35.0	100.0	0.02	105.9	70.74
5200.0	0.49	4.00	5198.0	106.3	35.8	100.1	0.03	106.3	70.31
5300.0	0.62	2.74	5298.0	106.7	36.8	100.1	0.13	106.7	69.83
5400.0	0.73	16.08	5398.0	107.3	37.9	100.4	0.19	107.3	69.29
5500.0	0.75	27.11	5497.9	108.2	39.1	100.8	0.14	108.2	68.79
5588.0	0.85	49.40	5585.9	109.2	40.1	101.6	0.37	109.2	68.47



Scientific
Drilling

Field: Hardy
Site: Lea County, NM
Well: Hardy 36 State #28
Wellpath: VH - Job #32K1004641
Survey: 10/16/04

