

Scientific Drilling

3D-025-39181

D-35-245-37e

350/S & 2310E

CHEVRON

Field: GL Erwin

Site: Lea County, NM

Well: GL Erwin B Federal NCT-2 #16

Wellpath: VH - Job #32K1108900

Survey: 11/11/08

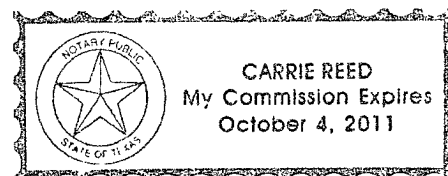
MAY INCLINATION
ONLY 3.78°

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

.....Richard.....Company Representative

Notorized this date 22nd of December, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





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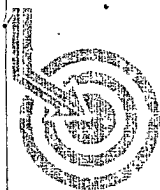
Scientific Drilling International Survey Report

Company: CHEVRON	Date: 12/17/2008	Time: 14:16:12	Page: 1
Field: GL Erwin	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0 0	
Well: GL Erwin B Federal NCT-2 #16	Section (VS) Reference:	Well (0.00N,0.00E,51.59Azi)	
Wellpath: VH - Job #32K1108900	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/11/08	Start Date: 11/11/2008
Company: Scientific Drilling Internatio	Engineer: Garza w/Apollo
Tool: Keeper, Keeper Gyro	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 00	0.00	0.00	0 00	0 00	0 00	0.00	0 00	0.00	0.00
100.00	0.42	49.94	100 00	0.37	0 24	0 28	0.42	0.37	49.94
200 00	0.34	358.64	200.00	0 91	0 77	0 55	0 34	0 95	35 79
300 00	0 34	322 14	300.00	1.09	1 30	0.36	0 21	1.35	15.69
400 00	0 43	76 87	399 99	1 44	1 62	0 55	0.65	1 71	18.71
500 00	0 43	66 14	499 99	2.14	1 86	1.26	0 08	2 24	34 11
600 00	0 39	71.70	599 99	2.82	2.11	1.92	0.06	2 86	42.29
700 00	0.50	55 68	699 99	3 58	2 47	2.61	0 17	3.59	46.57
800 00	0.53	67 55	799 98	4.46	2 89	3 39	0 11	4 46	49.59
900 00	0 58	57 90	899 98	5 40	3 34	4 25	0.11	5 40	51 88
1000 00	0 79	71 95	999 97	6 55	3 82	5.33	0 27	6 56	54 41
1100 00	0 83	68 34	1099 96	7 89	4 30	6.66	0 06	7 93	57 17
1200 00	0 95	75.05	1199 95	9 35	4.78	8 14	0 16	9 44	59 57
1300 00	0 91	62 70	1299 94	10 89	5.36	9.64	0 20	11 03	60.94
1400 00	0 88	62 75	1399.92	12 42	6 07	11 03	0.03	12 59	61.16
1500 00	0 78	57 01	1499.91	13.85	6.80	12 29	0 13	14 04	61 05
1600 00	0 84	57 67	1599.90	15 26	7 56	13 48	0 06	15 45	60 71
1700 00	1 31	40 14	1699 88	17 11	8 82	14.83	0 57	17 26	59 25
1800 00	1 82	39 10	1799 85	19.78	10 93	16.57	0 51	19.85	56 59
1900 00	2.23	36 22	1899 78	23 20	13 73	18 72	0 42	23 22	53 74
2000 00	2.87	36.80	1999 68	27.50	17 31	21 37	0 64	27.50	51 00
2100.00	3 60	45 05	2099 53	33 04	21 53	25 09	0 86	33 06	49 37
2200 00	3 78	47 41	2199 32	39 45	25 98	29 74	0 24	39.49	48 86
2300 00	3 13	50 12	2299 14	45 46	29 96	34 26	0 67	45.51	48 83
2400 00	2.42	46.57	2399.02	50 29	33 16	37 89	0 73	50 35	48 81
2500 00	2 19	40 43	2498 94	54 27	36 07	40 66	0 34	54 35	48 43
2600.00	1 92	40 44	2598 87	57 79	38 80	42 99	0 27	57 91	47 93
2700 00	1.53	43 64	2698 83	60 76	41 04	45 00	0 40	60 90	47 64
2800 00	1 27	48 50	2798 80	63 19	42 74	46 75	0 29	63.34	47 57
2900 00	1 18	59 29	2898 77	65 31	44 00	48 46	0 25	65 46	47 76
3000 00	1 07	55 83	2998 76	67 26	45 05	50.12	0 13	67 39	48 05
3100 00	1 08	55 28	3098 74	69 14	46 11	51 67	0 01	69 25	48 25
3200 00	1 09	53 14	3198 72	71 03	47 22	53 21	0 04	71 14	48 41
3300 00	0 90	64 23	3298 70	72 74	48 13	54 67	0 27	72 84	48 64
3400 00	1 01	68 54	3398 69	74 35	48 79	56 20	0 13	74 43	49 04
3500 00	0 88	81 72	3498 68	75 86	49.23	57 78	0 25	75.91	49 57
3600 00	0 90	73 07	3598 67	77 26	49 57	59 29	0 14	77.28	50 11
3700 00	0 96	78 57	3698 65	78 73	49 96	60 86	0 11	78 74	50 62
3800 00	1 18	77 81	3798 63	80 40	50 34	62 69	0 22	80.40	51 23
3855 00	1 23	76 16	3853 62	81 45	50 60	63 82	0 11	81 45	51 59



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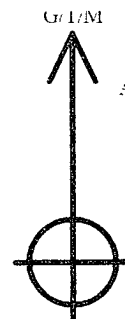
Field: GL Erwin

Site: Lea County, NM

Well: GL Erwin B Federal NCT-2 #16

Wellpath: VH - Job #32K1108900

Survey: 11/11/08



Azimuths to Grid North
True North. 0.00°
Magnetic North. 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/17/2008
Model: igrf2000

