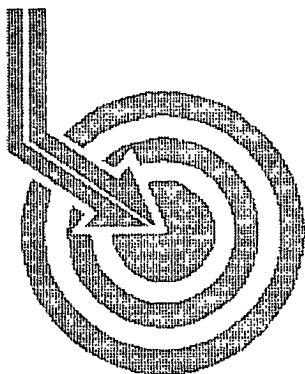




Scientific Drilling

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JUN 12 2009

HOBBSOCD

CHEVRON

Field: Vacuum Glorietta San Andres
Site: Lea County, NM
Well: VGSAU #441
Wellpath: DH - Job #32D0409120
Survey: 04/10/09-04/14/09

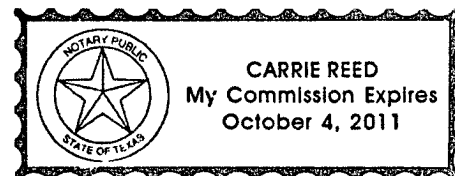
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Stuart*..... Company Representative

Notorized this date 4th of May, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CHEVRON	Date: 05/04/2009	Time: 15:46:42	Page: 1
Field: Vacuum Gorieta San Andres	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: VGSAU #441	Section (VS) Reference:	Well: (0.00N,0.00E,337.42Azi)	
Wellpath: VH - Job #32K0409133	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/10/09	Start Date: 04/10/2009
Company: Scientific Drilling Internatio	Engineer: Guebara/Madrid
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	0.06	149.87	87.00	-0.05	-0.04	0.02	0.07	0.05	149.87
119.00	0.12	177.74	119.00	-0.09	-0.09	0.03	0.23	0.09	159.54
211.00	0.31	187.13	211.00	-0.40	-0.43	0.01	0.21	0.43	179.27
308.00	0.22	184.71	308.00	-0.79	-0.88	-0.04	0.09	0.88	182.77
397.00	0.22	226.79	397.00	-1.01	-1.16	-0.18	0.18	1.18	188.84
488.00	0.24	233.13	488.00	-1.11	-1.40	-0.46	0.04	1.47	198.24
579.00	0.19	246.16	579.00	-1.16	-1.57	-0.75	0.08	1.74	205.53
669.00	0.10	186.77	669.00	-1.24	-1.71	-0.90	0.18	1.93	207.66
763.00	0.14	173.87	763.00	-1.42	-1.91	-0.89	0.05	2.11	205.12
856.00	0.19	140.89	856.00	-1.67	-2.14	-0.78	0.11	2.28	200.15
950.00	0.39	101.59	949.99	-2.00	-2.32	-0.37	0.29	2.35	189.12
1043.00	0.74	79.27	1042.99	-2.30	-2.28	0.53	0.44	2.34	166.97
1137.00	0.87	58.53	1136.98	-2.32	-1.79	1.73	0.34	2.49	135.96
1231.00	0.58	43.42	1230.97	-2.02	-1.07	2.67	0.37	2.88	111.91
1324.00	0.43	75.11	1323.97	-1.87	-0.64	3.33	0.33	3.39	100.91
1418.00	0.30	93.49	1417.97	-2.03	-0.57	3.91	0.18	3.96	98.22
1511.00	0.38	90.41	1510.97	-2.25	-0.58	4.47	0.09	4.50	97.43
1605.00	0.36	68.86	1604.96	-2.38	-0.48	5.05	0.15	5.08	95.41
1699.00	0.40	72.83	1698.96	-2.42	-0.28	5.64	0.05	5.65	92.79
1792.00	0.61	46.86	1791.96	-2.28	0.16	6.31	0.33	6.32	88.56
1886.00	0.64	49.36	1885.95	-1.94	0.84	7.08	0.04	7.13	83.21
1979.00	0.73	52.79	1978.95	-1.63	1.54	7.94	0.11	8.09	79.03
2073.00	0.79	53.49	2072.94	-1.32	2.29	8.94	0.06	9.23	75.65
2167.00	0.97	55.46	2166.93	-1.00	3.12	10.12	0.19	10.59	72.84
2260.00	1.11	53.85	2259.91	-0.63	4.10	11.49	0.15	12.20	70.36
2354.00	1.34	51.96	2353.89	-0.12	5.32	13.09	0.25	14.13	67.90
2447.00	1.20	52.98	2446.87	0.41	6.57	14.73	0.15	16.13	65.95
2540.00	1.39	47.85	2539.84	1.03	7.92	16.34	0.24	18.16	64.15
2634.00	1.39	48.51	2633.82	1.79	9.44	18.04	0.02	20.36	62.39
2728.00	2.04	36.84	2727.77	3.01	11.53	19.90	0.78	23.00	59.91



Scientific Drilling International

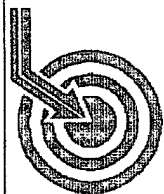
Survey Report

Company: CHEVRON	Date: 05/04/2009	Time: 16:08:45	Page: 1
Field: Vacuum Glorietta San Andres	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: VGSAU #441	Section (VS) Reference:	Well (0.00N,0.00E,337.42Azi)	
Wellpath: DH - Job #32D0409120	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/10/09-04/14/09	Start Date: 04/10/2009
MWD 2857'-4947'	
Company: Scientific Drilling Internatio	Engineer: Hernandez/Lopez/Elger
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
2728.00	2.04	36.84	2727.77	3.01	11.53	19.90	0.00	23.00	59.91
2857.00	2.04	45.95	2856.69	5.01	14.96	22.93	0.25	27.38	56.87
2951.00	2.83	358.16	2950.62	7.80	18.45	24.05	2.23	30.31	52.51
3047.00	2.60	352.98	3046.51	12.11	22.98	23.71	0.35	33.02	45.90
3142.00	2.29	352.77	3141.42	16.02	27.00	23.21	0.33	35.60	40.68
3237.00	3.45	329.11	3236.30	20.68	31.33	21.50	1.72	38.00	34.46
3332.00	3.10	327.90	3331.15	26.04	35.96	18.67	0.38	40.52	27.43
3427.00	4.69	328.15	3425.93	32.41	41.44	15.25	1.67	44.16	20.21
3522.00	4.07	327.94	3520.65	39.56	47.60	11.42	0.65	48.95	13.49
3616.00	5.29	320.84	3614.33	47.01	53.78	6.91	1.43	54.22	7.32
3711.00	4.99	318.04	3708.95	55.10	60.25	1.38	0.41	60.27	1.31
3806.00	6.09	323.38	3803.51	63.89	67.37	-4.39	1.28	67.51	356.27
3901.00	5.98	322.98	3897.98	73.57	75.36	-10.37	0.12	76.07	352.16
3996.00	5.64	322.28	3992.49	82.87	83.01	-16.21	0.37	84.58	348.95
4091.00	5.46	321.31	4087.05	91.72	90.23	-21.89	0.21	92.85	346.36
4186.00	4.76	326.67	4181.67	99.93	97.05	-26.88	0.89	100.70	344.52
4282.00	4.44	328.72	4277.36	107.52	103.55	-31.00	0.37	108.09	343.33
4377.00	4.17	329.19	4372.09	114.57	109.66	-34.68	0.29	115.01	342.45
4472.00	4.25	322.11	4466.84	121.39	115.41	-38.61	0.55	121.69	341.50
4567.00	3.83	324.47	4561.60	127.87	120.77	-42.61	0.48	128.07	340.56
4662.00	4.69	324.70	4656.34	134.75	126.52	-46.70	0.91	134.86	339.74
4757.00	4.65	325.11	4751.02	142.30	132.85	-51.15	0.05	142.35	338.94
4852.00	4.60	324.15	4845.71	149.77	139.09	-55.58	0.10	149.79	338.22
4947.00	4.41	328.00	4940.42	157.08	145.28	-59.75	0.38	157.09	337.64



Scientific
Drilling

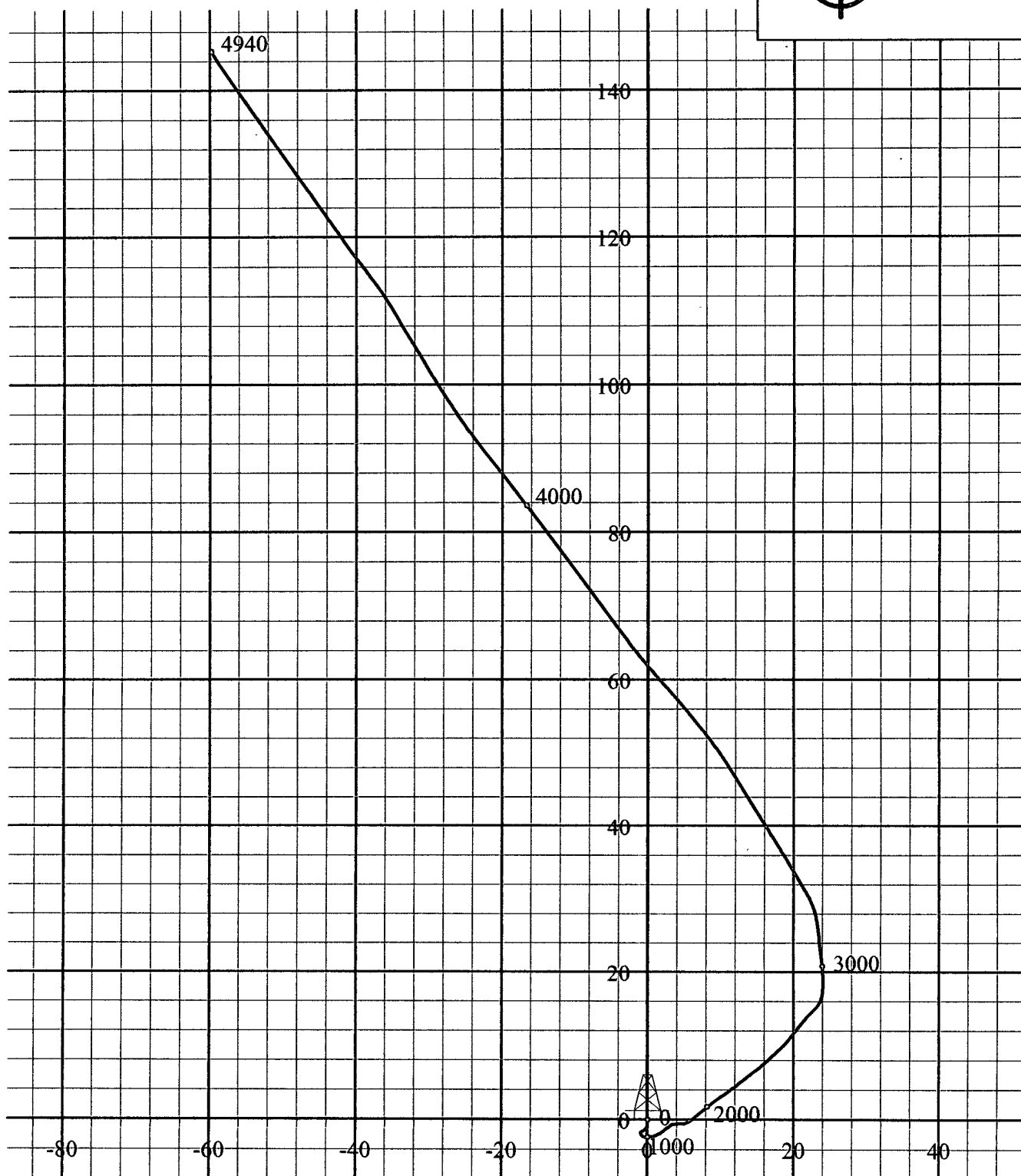
Field: Vacuum Glorietta San Andres
Site: Lea County, NM
Well: VGSAU #441
Wellpath: DH - Job #32D0409120
Survey: 04/10/09-04/14/09



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 05/04/2009
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]