

Scientific Drilling

EOG

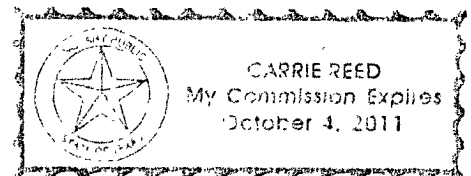
Field: Southeast Quahada Ridge
Site: Eddy County, NM
Well: James Ranch Unit #112H
Wellpath: VH - Job #32K0109030
Survey: 01/16/09

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

.....*K. L. V. R.*.....Company Representative

Notorized this date 2/11/09 of Midland, 2009.

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: EOG **Date:** 01/21/2009 **Time:** 11:41:13 **Page:** 1
Field: Southeast Quahada Ridge **Co-ordinate(NE) Reference:** Site: Eddy County, NM, Grd North
Site: Eddy County, NM **Vertical (IVD) Reference:** SITE 0 0
Well: James Ranch Unit #112H **Section (VS) Reference:** Well (0 00N.0.00E.93.37Azi)
Wellpath: VH - Job #32K0109030 **Survey Calculation Method:** Minimum Curvature **Db:** Sybase

Survey: 01/16/09 **Start Date:** 01/16/2009
Company: Scientific Drilling Internatio **Engineer:** Pena w/GeoGyro
Tool: Keeper, Keeper Surface Readout Gyro **Tied-to:** From Surface

Survey

VD ft	Incl deg	Azim deg	IVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	CISD ft	CISA deg
0.00	0 00	359.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.49	152.37	100.00	0.22	-0.38	0.20	0.49	0.43	152.37
200.00	0.29	238.58	200.00	0.23	-0.89	0.18	0.55	0.91	168.52
300.00	0.51	197.78	299.99	-0.09	-1.45	-0.17	0.35	1.46	186.76
400.00	0.63	136.92	399.99	0.20	-2.27	0.07	0.59	2.27	178.28
500.00	0.50	56.14	499.99	0.95	-2.43	0.81	0.74	2.56	161.64
600.00	0.58	355.74	599.98	1.23	-1.68	1.13	0.55	2.03	146.07
700.00	0.86	330.08	699.98	0.75	-0.53	0.72	0.42	0.89	126.19
800.00	0.78	296.92	799.97	-0.29	0.43	-0.26	0.47	0.51	328.77
900.00	0.35	233.99	899.96	-1.15	0.56	-1.12	0.69	1.25	296.69
1000.00	0.38	173.96	999.96	-1.33	0.05	-1.33	0.37	1.33	272.23
1100.00	0.50	138.87	1099.96	-0.97	-0.61	-1.01	0.29	1.18	238.92
1200.00	0.62	142.54	1199.95	-0.31	-1.36	-0.39	0.13	1.42	195.96
1300.00	0.76	155.50	1299.95	0.35	-2.40	0.21	0.21	2.41	174.91
1400.00	0.92	129.49	1399.93	1.31	-3.51	1.11	0.41	3.68	162.48
1500.00	1.32	141.22	1499.92	2.73	-4.92	2.45	0.46	5.50	153.54
1600.00	1.46	169.43	1599.89	3.81	-7.07	3.40	0.69	7.85	154.29
1700.00	1.54	142.75	1699.85	5.00	-9.39	4.45	0.70	10.39	154.64
1800.00	1.71	163.04	1799.81	6.39	-11.89	5.70	0.60	13.19	154.39
1900.00	1.61	165.00	1899.77	7.35	-14.67	6.50	0.11	16.05	156.11
2000.00	1.44	158.87	1999.74	8.31	-17.20	7.32	0.24	18.69	156.96
2100.00	1.99	122.30	2099.70	10.35	-19.30	9.24	1.20	21.40	154.43
2200.00	2.27	109.09	2199.63	13.78	-20.88	12.58	0.56	24.37	148.94
2300.00	2.70	104.95	2299.53	17.99	-22.13	16.72	0.47	27.74	142.93
2400.00	2.49	93.38	2399.43	22.47	-22.87	21.17	0.56	31.16	137.21
2500.00	2.85	108.38	2499.32	27.05	-23.78	25.69	0.78	35.01	132.79
2600.00	2.00	135.92	2599.24	30.73	-25.82	29.27	1.42	39.03	131.42
2700.00	1.61	116.30	2699.19	33.31	-27.69	31.74	0.73	42.12	131.11
2800.00	1.48	145.94	2799.15	35.39	-29.39	33.72	0.80	44.73	131.07
2900.00	1.07	137.16	2899.13	36.85	-31.14	35.08	0.45	46.91	131.59
3000.00	1.78	139.36	2999.10	38.60	-33.00	36.73	0.71	49.38	131.94
3100.00	4.28	132.09	3098.95	42.60	-36.68	40.51	2.52	54.65	132.16
3200.00	4.79	133.11	3198.63	48.72	-42.04	46.33	0.52	62.56	132.22
3300.00	4.37	134.77	3298.32	54.79	-47.58	52.08	0.44	70.54	132.41
3400.00	4.86	140.51	3397.99	60.53	-53.53	57.48	0.67	78.54	132.96
3500.00	5.17	138.35	3497.61	66.59	-60.16	63.17	0.36	87.23	133.61
3600.00	6.21	138.23	3597.11	73.61	-67.56	69.76	1.04	97.12	134.08
3665.00	6.79	137.50	3661.70	78.86	-73.02	74.70	0.90	104.46	134.35



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