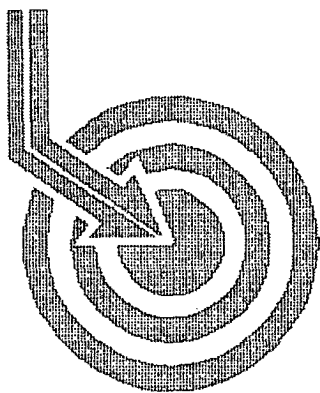




Scientific Drilling

MACK ENERGY

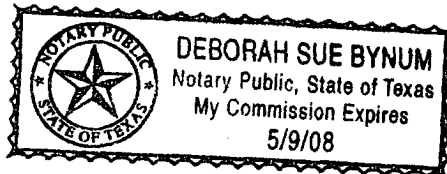
Field: Penasco
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: VH - Job #32K0406329
Survey: 04/22/06

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

.....*Deborah S. Bynum*.....Company Representative

Notorized this date 2nd of June, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Penasco
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: VH - Job #32K0406329

Date: 06/01/2006 Time: 19:21:53 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,198.25Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 04/22/06 Start Date: 04/22/2006
Company: Scientific Drilling Internatio Engineer: Gonzales w/Signal
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	0.27	6.97	100.00	-0.23	0.23	0.03	0.27	0.24	6.97
200.00	0.68	80.63	200.00	-0.74	0.56	0.64	0.66	0.86	48.71
300.00	0.66	62.36	299.99	-1.43	0.93	1.74	0.21	1.97	61.90
400.00	0.61	66.85	399.98	-2.19	1.40	2.74	0.07	3.08	62.84
500.00	0.55	31.73	499.98	-3.01	2.02	3.48	0.35	4.02	59.84
600.00	0.23	14.28	599.98	-3.68	2.62	3.78	0.34	4.60	55.24
700.00	0.34	251.97	699.98	-3.70	2.73	3.55	0.50	4.48	52.46
800.00	0.46	273.70	799.97	-3.43	2.66	2.87	0.19	3.91	47.12
900.00	0.36	282.05	899.97	-3.29	2.75	2.16	0.12	3.50	38.10
1000.00	1.39	240.84	999.96	-2.36	2.23	0.79	1.14	2.36	19.58
1100.00	1.54	236.88	1099.93	-0.42	0.90	-1.39	0.18	1.66	302.95
1200.00	1.82	237.91	1199.88	1.85	-0.68	-3.86	0.28	3.92	260.08
1300.00	2.89	230.15	1299.80	5.21	-3.13	-7.14	1.11	7.80	246.31
1400.00	2.55	191.76	1399.69	9.56	-6.93	-9.53	1.82	11.78	233.99
1500.00	2.11	179.14	1499.61	13.51	-10.95	-9.96	0.67	14.80	222.29
1600.00	2.23	184.86	1599.54	17.15	-14.73	-10.10	0.25	17.85	214.43
1700.00	2.01	183.21	1699.47	20.73	-18.42	-10.36	0.23	21.13	209.36
1800.00	1.82	195.73	1799.41	24.01	-21.69	-10.89	0.46	24.27	206.65
1900.00	1.45	201.43	1899.37	26.86	-24.40	-11.78	0.40	27.10	205.77
2000.00	1.40	205.24	1999.34	29.34	-26.68	-12.76	0.11	29.58	205.56
2100.00	1.10	211.38	2099.32	31.49	-28.61	-13.78	0.33	31.76	205.73
2200.00	0.89	219.89	2199.30	33.14	-30.02	-14.78	0.26	33.47	206.21
2300.00	0.61	218.16	2299.30	34.36	-31.04	-15.61	0.28	34.74	206.70
2400.00	0.37	247.10	2399.29	35.08	-31.58	-16.24	0.34	35.51	207.21
2500.00	0.31	249.96	2499.29	35.46	-31.80	-16.79	0.06	35.96	207.83
2600.00	0.49	252.06	2599.29	35.88	-32.03	-17.45	0.18	36.47	208.58
2700.00	0.71	251.50	2699.28	36.50	-32.35	-18.44	0.22	37.24	209.68
2800.00	1.04	245.11	2799.27	37.49	-32.93	-19.85	0.34	38.45	211.08
2900.00	0.97	248.00	2899.25	38.66	-33.63	-21.46	0.09	39.90	212.54
3000.00	0.81	255.67	2999.24	39.59	-34.12	-22.93	0.20	41.11	213.90
3100.00	0.83	258.99	3099.23	40.32	-34.44	-24.33	0.05	42.16	215.24
3200.00	0.94	252.37	3199.22	41.16	-34.82	-25.82	0.15	43.35	216.56
3300.00	0.75	252.31	3299.21	42.02	-35.27	-27.22	0.19	44.56	217.66
3400.00	0.42	238.99	3399.20	42.68	-35.66	-28.16	0.35	45.44	218.30
3500.00	0.22	190.33	3499.20	43.15	-36.04	-28.51	0.32	45.95	218.35
3600.00	0.18	166.91	3599.20	43.48	-36.38	-28.51	0.09	46.22	218.09
3700.00	0.45	94.52	3699.20	43.52	-36.56	-28.08	0.43	46.10	217.53
3800.00	0.86	126.35	3799.19	43.66	-37.04	-27.09	0.53	45.89	216.18
3900.00	0.85	117.72	3899.18	44.01	-37.83	-25.83	0.13	45.80	214.32
4000.00	0.90	143.08	3999.17	44.58	-38.80	-24.70	0.39	45.99	212.48
4100.00	0.81	136.67	4099.16	45.37	-39.94	-23.74	0.13	46.46	210.73
4200.00	0.48	125.45	4199.15	45.83	-40.70	-22.91	0.35	46.71	209.38
4300.00	0.55	145.56	4299.15	46.24	-41.34	-22.30	0.19	46.97	208.35
4400.00	0.81	152.62	4399.14	47.03	-42.36	-21.71	0.27	47.60	207.13
4500.00	0.77	172.23	4499.13	48.13	-43.65	-21.29	0.27	48.57	206.00
4600.00	0.99	163.73	4599.12	49.44	-45.15	-20.96	0.26	49.78	204.90
4700.00	1.00	147.28	4699.11	50.70	-46.71	-20.24	0.28	50.91	203.43
4800.00	0.89	149.06	4799.09	51.76	-48.11	-19.37	0.11	51.87	201.93



Scientific
Drilling

Scientific Drilling International

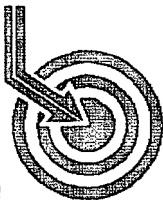
Survey Report

Company: MACK ENERGY
Field: Penasco
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: VH - Job #32K0406329

Date: 06/01/2006 Time: 19:21:53 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,198.25Azi)
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
4900.00	0.90	153.88	4899.08	52.83	-49.48	-18.63	0.08	52.87	200.63
5000.00	0.69	160.69	4999.07	53.87	-50.76	-18.08	0.23	53.88	199.61
5100.00	0.60	154.17	5099.07	54.72	-51.80	-17.65	0.12	54.72	198.82
5200.00	0.54	185.32	5199.06	55.56	-52.74	-17.47	0.31	55.56	198.33
5240.00	0.65	189.04	5239.06	55.96	-53.15	-17.52	0.29	55.96	198.25



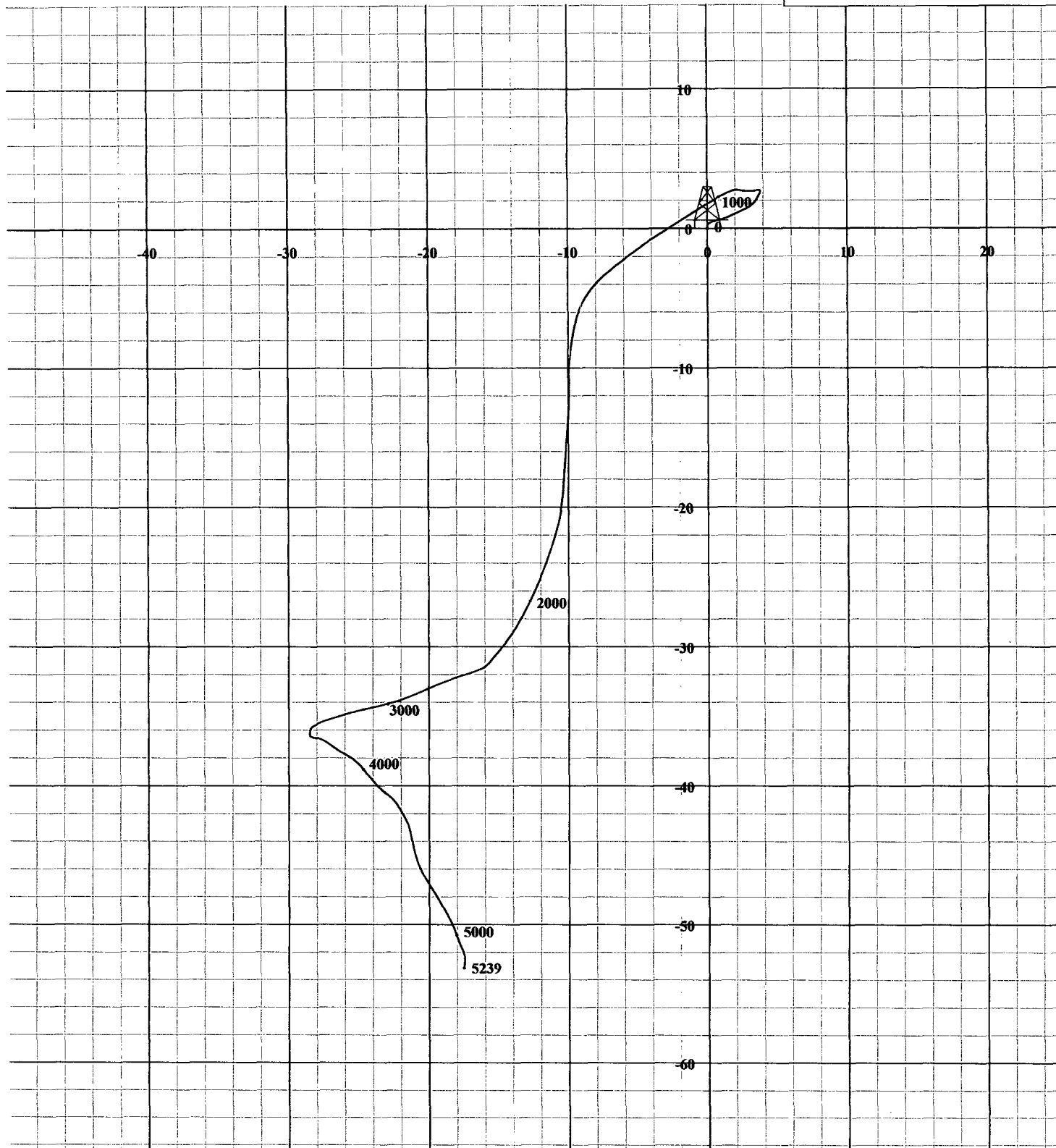
**Scientific
Drilling**

Field: Penasco
Site: Eddy County, NM
Well: Red River Fee #1
Wellpath: VH - Job #32K0406329
Survey: 04/22/06



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.1
Dip Angle: 0.00°
Date: 06/01/2006
Model: igr2000

South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]