



30-015-38392

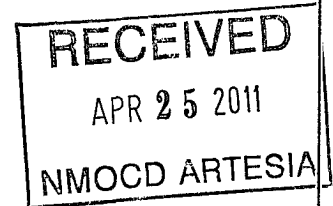
Scientific Drilling

Gyroscopic Survey Report
for
MEWBOURNE

Well Location	LEA COUNTY, NEW MEXICO
Well Name	ARIES 20 FED COM # 2H
Rig Name	PATTERSON 46
Survey Date	1/29/2011
Latitude	32.73 deg
North Reference	Grid North
Grid Correction	-0.18 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 89.11Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	FRANK RENTERIA

Comments

20.5 FOOT KB





Scientific Drilling Survey Report

Well Name: ARIES 20 FED COM # 2H

Survey: FINAL GYRO SURVEY

Survey Date: 1/29/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.25	217.22	100.00	-0.13	-0.17	-0.13	0.25	0.22	217.22
200.00	1.49	175.93	199.99	-0.19	-1.64	-0.17	1.32	1.65	185.88
300.00	1.49	182.35	299.95	-0.20	-4.24	-0.13	0.17	4.24	181.76
400.00	1.41	190.40	399.92	-0.51	-6.75	-0.41	0.22	6.76	183.44
500.00	1.39	186.05	499.89	-0.90	-9.16	-0.75	0.11	9.19	184.71
600.00	1.43	180.28	599.86	-1.07	-11.61	-0.89	0.15	11.64	184.37
700.00	1.42	178.56	699.83	-1.08	-14.10	-0.86	0.04	14.13	183.50
800.00	1.47	175.25	799.80	-0.98	-16.62	-0.73	0.09	16.63	182.50
900.00	1.44	172.90	899.77	-0.76	-19.14	-0.46	0.06	19.15	181.39
1000.00	1.49	162.71	999.73	-0.26	-21.63	0.08	0.26	21.63	179.80
1100.00	1.51	132.66	1099.70	1.06	-23.76	1.43	0.78	23.80	176.56
1200.00	1.51	124.13	1199.67	3.09	-25.39	3.49	0.22	25.62	172.18
1300.00	1.42	120.86	1299.63	5.22	-26.76	5.63	0.12	27.34	168.11
1400.00	1.10	114.89	1399.61	7.13	-27.79	7.56	0.34	28.80	164.78
1500.00	0.96	118.35	1499.59	8.72	-28.59	9.17	0.15	30.03	162.23
1600.00	0.64	109.67	1599.58	9.97	-29.18	10.42	0.34	30.98	160.34
1700.00	0.83	115.78	1699.58	11.13	-29.68	11.59	0.21	31.86	158.66
1800.00	0.58	118.44	1799.57	12.22	-30.23	12.69	0.25	32.78	157.23
1900.00	0.46	127.67	1899.56	12.97	-30.71	13.45	0.15	33.53	156.36
2000.00	0.52	114.02	1999.56	13.69	-31.14	14.17	0.13	34.22	155.53
2100.00	0.55	115.88	2099.56	14.52	-31.53	15.02	0.04	34.93	154.54
2200.00	0.73	115.72	2199.55	15.52	-32.02	16.02	0.18	35.80	153.42
2300.00	0.76	117.75	2299.54	16.67	-32.60	17.18	0.05	36.85	152.21
2400.00	0.69	126.85	2399.53	17.74	-33.28	18.26	0.14	37.96	151.25
2500.00	0.55	108.20	2499.53	18.67	-33.79	19.20	0.25	38.86	150.40
2600.00	0.60	109.62	2599.52	19.62	-34.12	20.15	0.05	39.62	149.44
2700.00	0.41	79.96	2699.52	20.46	-34.23	20.99	0.32	40.16	148.48
2800.00	0.45	67.61	2799.52	21.17	-34.02	21.70	0.10	40.36	147.46
2900.00	0.36	42.80	2899.51	21.76	-33.64	22.28	0.19	40.35	146.48
3000.00	0.42	55.91	2999.51	22.29	-33.20	22.80	0.11	40.28	145.51
3100.00	0.41	27.10	3099.51	22.76	-32.67	23.27	0.21	40.11	144.54
3200.00	0.45	25.08	3199.51	23.10	-32.00	23.60	0.04	39.76	143.58
3300.00	0.35	25.57	3299.50	23.41	-31.37	23.90	0.10	39.44	142.69
3400.00	0.51	20.76	3399.50	23.71	-30.67	24.19	0.17	39.07	141.74
3500.00	0.47	20.73	3499.50	24.03	-29.87	24.49	0.05	38.63	140.65
3600.00	0.83	19.06	3599.49	24.42	-28.81	24.87	0.36	38.06	139.20
3700.00	0.63	27.46	3699.48	24.93	-27.64	25.36	0.22	37.51	137.46
3800.00	0.81	20.27	3799.47	25.45	-26.48	25.87	0.20	37.02	135.68



Scientific Drilling Survey Report

Well Name: ARIES 20 FED COM # 2H

Survey: FINAL GYRO SURVEY

Survey Date: 1/29/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	0.86	357.35	3899.46	25.68	-25.07	26.08	0.34	36.17	133.87
4000.00	1.17	354.22	3999.45	25.57	-23.30	25.94	0.31	34.87	131.93
4100.00	1.20	355.01	4099.43	25.41	-21.24	25.75	0.04	33.38	129.53
4200.00	1.26	352.20	4199.40	25.20	-19.11	25.50	0.09	31.87	126.84
4300.00	1.67	2.15	4299.37	25.15	-16.56	25.41	0.48	30.33	123.09
4400.00	2.04	14.53	4399.32	25.70	-13.38	25.91	0.54	29.16	117.30
4500.00	1.94	18.44	4499.26	26.73	-10.05	26.89	0.17	28.71	110.49
4600.00	2.37	28.93	4599.19	28.32	-6.63	28.43	0.59	29.19	103.13
4700.00	2.35	28.20	4699.10	30.35	-3.01	30.40	0.04	30.55	95.66
4800.00	1.82	8.67	4799.04	31.61	0.36	31.61	0.88	31.61	89.35
4900.00	1.51	1.42	4899.00	31.92	3.25	31.88	0.37	32.04	84.18
5000.00	1.31	358.64	4998.96	31.97	5.72	31.88	0.21	32.39	79.83
5100.00	1.50	357.53	5098.93	31.92	8.17	31.80	0.19	32.83	75.59
5200.00	1.57	355.94	5198.90	31.81	10.84	31.65	0.08	33.45	71.09
5300.00	1.46	353.93	5298.86	31.62	13.47	31.42	0.12	34.18	66.79
5400.00	1.29	349.15	5398.84	31.31	15.84	31.07	0.20	34.87	62.99
5500.00	1.35	344.84	5498.81	30.83	18.08	30.55	0.11	35.50	59.38
5600.00	0.94	346.93	5598.79	30.36	20.01	30.06	0.41	36.11	56.35
5700.00	0.98	346.78	5698.77	30.01	21.64	29.68	0.05	36.73	53.90
5800.00	0.96	328.60	5798.76	29.40	23.20	29.04	0.31	37.17	51.38
5900.00	1.26	303.63	5898.74	28.07	24.52	27.69	0.56	36.99	48.47
6000.00	1.03	297.52	5998.72	26.37	25.55	25.98	0.26	36.43	45.48
6100.00	0.95	283.22	6098.71	24.78	26.15	24.38	0.26	35.75	42.99
6200.00	0.70	229.49	6198.70	23.51	25.94	23.11	0.78	34.74	41.69
6300.00	0.73	206.11	6298.69	22.75	24.98	22.36	0.29	33.53	41.84
6400.00	0.83	229.73	6398.68	21.90	23.94	21.53	0.33	32.20	41.97
6500.00	0.49	274.89	6498.68	20.92	23.50	20.55	0.60	31.22	41.17
6600.00	0.73	311.94	6598.67	20.03	23.96	19.66	0.45	30.99	39.36
6700.00	1.27	317.28	6698.65	18.83	25.20	18.44	0.55	31.22	36.19
6800.00	1.09	304.68	6798.63	17.31	26.55	16.90	0.31	31.48	32.48
6900.00	0.97	282.27	6898.62	15.71	27.28	15.29	0.42	31.27	29.28
7000.00	1.10	284.40	6998.60	13.97	27.69	13.54	0.13	30.83	26.05
7100.00	0.93	287.63	7098.59	12.27	28.18	11.83	0.17	30.56	22.78
7200.00	0.75	295.99	7198.58	10.92	28.71	10.47	0.22	30.56	20.04
7300.00	0.62	271.57	7298.57	9.80	29.01	9.35	0.32	30.48	17.86
7400.00	0.56	250.81	7398.56	8.80	28.87	8.35	0.22	30.05	16.13
7440.00	0.60	239.65	7438.56	8.43	28.70	7.98	0.30	29.79	15.55