



Scientific Drilling

Gyroscopic Survey Report for CAZA OPERATING

Well Location	LEA COUNTY, NEW MEXICO
Well Name	MOORE BAILOUT 11 ST. N0.1H
Rig Name	NABORS 783
Survey Date	9/2/2009
Latitude	33.38 deg
North Reference	Grid North
Grid Correction	-0.36 deg
Depth Reference	RIG FLOOR
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 175.25Azim (deg)
Definitive Survey	FINAL SURVEY
Operator	VICTOR MELENDEZ JR

Comments



Survey Report

Well Name: MOORE BAILOUT 11 ST. N0.1H

Survey: FINAL SURVEY

Survey Date: 9/2/2009

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	0.46	227.60	100.00	0.24	-0.27	-0.29	0.46	0.40	227.60
200.00	0.43	223.52	200.00	0.74	-0.81	-0.85	0.04	1.17	226.30
300.00	0.28	192.04	299.99	1.22	-1.32	-1.15	0.24	1.75	221.20
400.00	0.22	335.82	399.99	1.27	-1.38	-1.28	0.47	1.89	222.84
500.00	0.32	300.81	499.99	0.93	-1.07	-1.60	0.19	1.93	236.39
600.00	0.36	288.22	599.99	0.64	-0.82	-2.14	0.08	2.30	248.98
700.00	0.44	258.71	699.99	0.56	-0.80	-2.81	0.22	2.92	254.12
800.00	0.31	169.39	799.99	0.88	-1.14	-3.14	0.53	3.34	249.97
900.00	0.35	165.49	899.99	1.45	-1.70	-3.01	0.04	3.46	240.46
1000.00	0.26	157.14	999.98	1.97	-2.21	-2.84	0.09	3.60	232.15
1100.00	0.12	121.42	1099.98	2.25	-2.48	-2.66	0.18	3.64	227.06
1200.00	0.10	103.39	1199.98	2.34	-2.55	-2.49	0.04	3.56	224.24
1300.00	0.39	270.77	1299.98	2.33	-2.57	-2.74	0.49	3.76	226.84
1400.00	0.40	229.00	1399.98	2.51	-2.79	-3.34	0.28	4.36	230.11
1500.00	0.20	130.83	1499.98	2.84	-3.14	-3.47	0.47	4.68	227.87
1600.00	0.32	73.52	1599.98	2.91	-3.18	-3.07	0.27	4.42	224.02
1700.00	0.36	57.82	1699.98	2.71	-2.93	-2.54	0.10	3.88	220.91
1800.00	0.51	54.30	1799.97	2.34	-2.50	-1.91	0.16	3.15	217.37
1900.00	0.42	5.80	1899.97	1.74	-1.88	-1.51	0.39	2.41	218.85
2000.00	0.29	354.13	1999.97	1.13	-1.26	-1.50	0.15	1.96	229.99
2100.00	0.42	35.87	2099.97	0.60	-0.71	-1.31	0.28	1.49	241.47
2200.00	0.47	59.78	2199.96	0.15	-0.21	-0.74	0.19	0.77	254.11
2300.00	0.60	65.30	2299.96	-0.21	0.21	0.09	0.14	0.23	22.14
2400.00	0.48	103.62	2399.96	-0.25	0.33	0.97	0.37	1.03	71.12
2500.00	0.66	98.42	2499.95	0.01	0.15	1.95	0.18	1.96	85.65
2600.00	0.90	88.94	2599.94	0.20	0.08	3.31	0.27	3.31	88.64
2700.00	1.08	85.58	2699.93	0.25	0.17	5.03	0.18	5.03	88.11
2800.00	1.18	75.40	2799.91	0.08	0.50	6.96	0.22	6.98	85.92
2900.00	1.27	51.75	2899.89	-0.71	1.44	8.83	0.51	8.95	80.71
3000.00	1.22	46.72	2999.86	-1.98	2.86	10.47	0.12	10.86	74.73
3100.00	1.11	46.56	3099.84	-3.25	4.25	11.95	0.11	12.68	70.42
3200.00	0.95	50.33	3199.82	-4.32	5.44	13.29	0.17	14.36	67.72
3300.00	0.97	49.86	3299.81	-5.29	6.52	14.57	0.02	15.96	65.90
3400.00	0.74	55.74	3399.80	-6.09	7.42	15.75	0.25	17.41	64.76
3500.00	0.60	53.84	3499.79	-6.68	8.09	16.70	0.14	18.56	64.14
3600.00	0.55	54.90	3599.79	-7.20	8.68	17.52	0.05	19.55	63.64
3700.00	0.58	47.55	3699.78	-7.75	9.30	18.29	0.08	20.51	63.04
3800.00	0.33	30.94	3799.78	-8.30	9.89	18.81	0.29	21.25	62.27



Survey Report

Well Name: MOORE BAILOUT 11 ST NO.1H
 Survey: FINAL SURVEY
 Survey Date: 9/2/2009

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	0.15	18.85	3899.78	-8.65	10.25	19 00	0.18	21.59	61.64
4000.00	0.20	25.05	3999.78	-8.92	10.53	19.11	0.05	21.82	61.14
4100.00	0.32	128.08	4099.78	-8.88	10.52	19.40	0.41	22.07	61.53
4200.00	0.29	62 13	4199 78	-8.79	10 47	19.85	0.33	22.44	62 19
4300.00	0.42	323.06	4299.78	-9.20	10 88	19.85	0.55	22.64	61.27
4400 00	0.17	201.50	4399.77	-9.37	11 03	19.58	0.53	22.47	60.59
4500.00	0.17	203.75	4499.77	-9 11	10.76	19.46	0.01	22.24	61.06
4600.00	0.51	347 46	4599.77	-9.43	11.06	19.31	0.65	22.25	60.19
4700 00	0.44	12.77	4699.77	-10 24	11.88	19 30	0.22	22.66	58.39
4800.00	0.31	357.34	4799 77	-10.87	12.52	19.37	0.17	23.07	57.12
4900.00	0.33	35.29	4899 77	-11 36	13 02	19.52	0 21	23.47	56.30
5000 00	0.49	69.74	4999 76	-11.69	13.40	20.09	0 29	24.15	56.29
5100.00	0 74	117 68	5099.76	-11.46	13.25	21.06	0.55	24.89	57.83
5200.00	0.73	121.25	5199.75	-10.74	12.62	22.18	0.05	25.52	60 36
5300.00	0.50	123.57	5299.74	-10 10	12.05	23.09	0.24	26 04	62.44
5400.00	0.50	128 10	5399 74	-9.53	11.54	23.79	0.04	26.44	64.12
5500.00	0 53	121.21	5499.74	-8.97	11 03	24.53	0 07	26.89	65.78
5600.00	0.74	164.69	5599 73	-8 06	10 18	25.09	0.51	27.07	67.92
5700.00	0.74	135 87	5699.72	-6.93	9.09	25 71	0.37	27.27	70.52
5800.00	0.66	124 10	5799.72	-6 07	8.30	26 64	0.17	27.90	72 69
5900.00	0.63	124.01	5899.71	-5.36	7 67	27.57	0.03	28 62	74.45
6000.00	0.61	132.03	5999.70	-4.63	7.01	28.42	0.09	29 27	76 14
6100.00	0.56	126 75	6099.70	-3.92	6.36	29.21	0.07	29.89	77.71
6200.00	0 50	120.86	6199.69	-3 34	5.85	29 98	0.09	30.54	78.97
6300 00	0.56	100.23	6299 69	-2.96	5 54	30.83	0 20	31.32	79.82
6400.00	0 66	95.54	6399.68	-2.74	5.39	31.88	0.11	32.34	80.40
6500.00	0.63	88.08	6499.68	-2.60	5 36	33.01	0.09	33.44	80 78
6600.00	0.88	98.88	6599.67	-2.40	5 26	34 32	0.29	34.72	81.29
6700.00	1.05	105.78	6699 65	-1.89	4.89	35 97	0 21	36.30	82.26
6800.00	1.21	115 01	6799.64	-1.05	4.19	37.81	0.24	38.04	83.67
6900.00	1.38	101.04	6899.61	-0.20	3.52	39 95	0.36	40 10	84.97
7000.00	1.14	120.49	6999.59	0.70	2.78	41.99	0 49	42.08	86.21
7100.00	1.35	121 58	7099.56	1.98	1.66	43.85	0 22	43.88	87.83
7200.00	1.41	97.73	7199.53	2.94	0 88	46 07	0.57	46.08	88.91
7300.00	1.35	104.95	7299.51	3 60	0.41	48.42	0 18	48.42	89.52
7400.00	1.54	106.84	7399.47	4.49	-0.28	50.84	0.20	50.84	90.32
7500.00	1 74	120.30	7499.43	5.86	-1 44	53.43	0.43	53.45	91.54
7600.00	1.76	121 43	7599.39	7.63	-3.00	56.05	0 04	56.13	93.07



Survey Report

Well Name: MOORE BAILOUT 11 ST. N0.1H

Survey: FINAL SURVEY

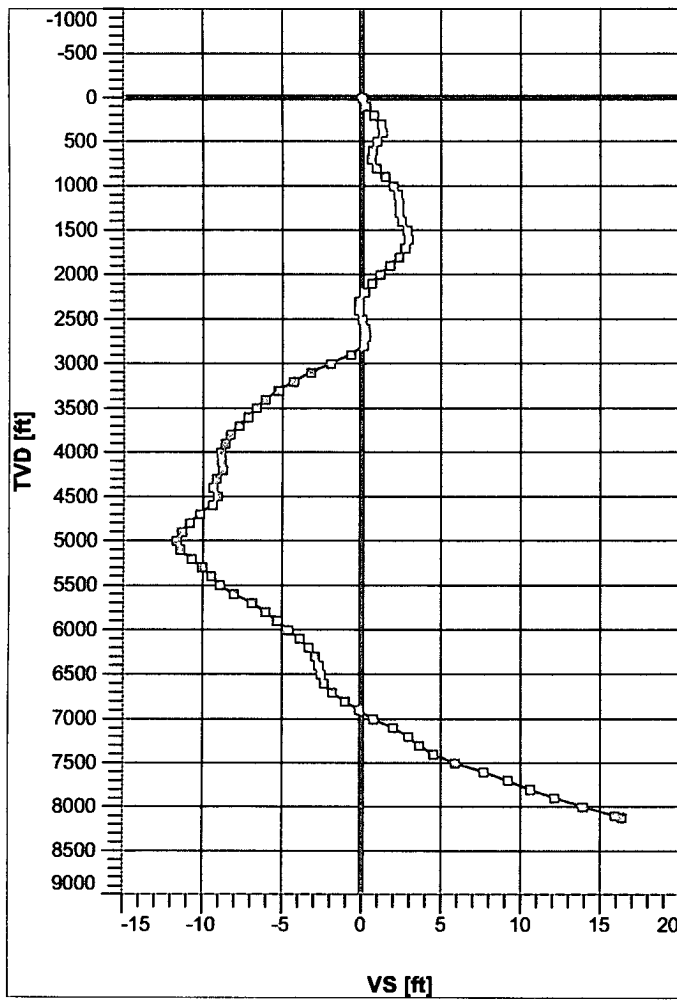
Survey Date: 9/2/2009

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
7700.00	1.46	115.99	7699.35	9.19	-4.36	58.50	0.34	58.66	94.26
7800.00	1.72	113.96	7799.31	10.56	-5.53	61.02	0.27	61.27	95.17
7900.00	1.69	117.90	7899.26	12.08	-6.83	63.69	0.12	64.06	96.12
8000.00	2.07	118.57	7999.21	13.86	-8.38	66.58	0.37	67.11	97.17
8100.00	2.01	121.20	8099.15	15.88	-10.15	69.67	0.11	70.40	98.29
8123.00	1.93	115.52	8122.13	16.32	-10.53	70.36	0.92	71.14	98.51



Name : FINAL SURVEY
Generated : 9/2/2009 13:46:43 Central Daylight Time

VS View



Plan View

