



(233737)

MWD SURVEY REPORT
MWD Services, Inc.

RECEIVED
 DEPT OF CONSERVATION
 WELL RECORDS
 BATON ROUGE, LA

2006 NOV 17 PM 2:24

Survey End Date : September 03, 2006	Target +N / -S = -246.7'
Job Number : 06115	Target +E / -W = -1617.7'
Operator : Northcoast Oil Company	Target TVD = 10000.0'
Lease / Well : Allain Land Company #1	Magnetic Declination +E / -W = 1.47°
Location : St. Mary Parish, Louisiana	Grid Convergence +E / -W = -0.12°
Field : Jeanerette	Total Correction +E / -W = 1.59°
Contractor / Rig : Guichard Operating 5	North Reference = Grid
Directional Company : Downhole Drilling Services, LLC	RKB Height = 18.00'
MWD Field Rep. : R. Horton, B. Gary, S. Deshotel, J. Miller	Ground Level Elevation =
Tie In Survey Reference : Surface, Assume Vertical	Vertical Section Azimuth = 261.22°
Calculation Method : Minimum Curvature	

Comments :

Survey #0 = Tie In Survey
 Survey #88 = Straight Line Projected Survey To Well TD

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
0	0.00'	0.00°	0.00°		0.00'	0.00'	0.00'	0.00'			
1	500.00'	0.30°	283.40°	500'	500.00'	1.21'	0.30'	-1.27'	1.31'	283.40°	0.06°
2	1000.00'	0.40°	9.60°	500'	999.99'	1.87'	2.33'	-2.26'	3.24'	315.90°	0.10°
3	1500.00'	0.80°	200.20°	500'	1499.98'	3.01'	0.77'	-3.17'	3.26'	283.70°	0.24°
4	1909.00'	0.80°	229.60°	409'	1908.94'	6.83'	-3.76'	-6.33'	7.36'	239.31°	0.10°
5	2004.00'	1.40°	234.40°	95'	2003.92'	8.43'	-4.86'	-7.78'	9.17'	237.99°	0.64°
6	2099.00'	2.50°	243.00°	95'	2098.87'	11.43'	-6.48'	-10.57'	12.40'	238.49°	1.19°
7	2194.00'	3.30°	248.60°	95'	2193.74'	16.07'	-8.42'	-14.96'	17.17'	240.64°	0.89°
8	2289.00'	5.30°	255.70°	95'	2288.47'	23.11'	-10.50'	-21.76'	24.16'	244.24°	2.17°
9	2384.00'	7.90°	252.20°	95'	2382.84'	33.92'	-13.58'	-32.23'	34.97'	247.15°	2.77°
10	2447.00'	8.90°	255.20°	63'	2445.16'	43.05'	-16.15'	-41.06'	44.12'	248.53°	1.73°
11	2540.00'	9.10°	258.30°	93'	2537.01'	57.55'	-19.48'	-55.22'	58.55'	250.57°	0.56°
12	2636.00'	8.40°	263.10°	96'	2631.90'	72.14'	-21.86'	-69.62'	72.97'	252.57°	1.05°
13	2732.00'	8.00°	264.50°	96'	2726.92'	85.81'	-23.34'	-83.23'	86.44'	254.33°	0.47°
14	2828.00'	8.10°	265.30°	96'	2821.97'	99.23'	-24.54'	-96.62'	99.68'	255.75°	0.16°
15	2922.00'	8.30°	266.30°	94'	2915.01'	112.59'	-25.52'	-109.99'	112.91'	256.94°	0.26°
16	3017.00'	8.00°	264.40°	95'	3009.05'	126.02'	-26.60'	-123.41'	126.24'	257.83°	0.42°
17	3112.00'	7.70°	257.00°	95'	3103.16'	138.97'	-28.68'	-136.19'	139.18'	258.11°	1.11°
18	3208.00'	8.00°	255.10°	96'	3198.26'	152.03'	-31.85'	-148.91'	152.28'	257.93°	0.41°
19	3302.00'	8.20°	257.40°	94'	3291.32'	165.22'	-34.99'	-161.77'	165.52'	257.80°	0.41°
20	3397.00'	8.10°	261.10°	95'	3385.37'	178.67'	-37.50'	-175.00'	178.97'	257.90°	0.56°
21	3493.00'	8.20°	261.30°	96'	3480.40'	192.28'	-39.58'	-188.45'	192.56'	258.14°	0.11°
22	3588.00'	8.80°	260.60°	95'	3574.35'	206.32'	-41.80'	-202.31'	206.59'	258.33°	0.64°
23	3683.00'	7.90°	261.80°	95'	3668.34'	220.12'	-43.91'	-215.95'	220.37'	258.51°	0.96°
24	3778.00'	8.20°	261.30°	95'	3762.41'	233.42'	-45.87'	-229.10'	233.65'	258.68°	0.32°
25	3875.00'	8.30°	260.80°	97'	3858.40'	247.34'	-48.04'	-242.85'	247.56'	258.81°	0.13°
26	3970.00'	8.50°	259.80°	95'	3952.39'	261.22'	-50.38'	-256.53'	261.43'	258.89°	0.26°
27	4066.00'	8.50°	259.40°	96'	4047.33'	275.40'	-52.94'	-270.49'	275.62'	258.93°	0.06°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
28	4161.00'	9.00°	259.80°	95'	4141.23'	289.85'	-55.54'	-284.70'	290.07'	258.96°	0.53°
29	4257.00'	8.10°	265.80°	96'	4236.16'	304.09'	-57.37'	-298.84'	304.30'	259.13°	1.32°
30	4351.00'	8.30°	266.20°	94'	4329.20'	317.45'	-58.30'	-312.21'	317.61'	259.42°	0.22°
31	4447.00'	7.80°	266.20°	96'	4424.25'	330.85'	-59.20'	-325.63'	330.96'	259.70°	0.52°
32	4542.00'	6.90°	263.20°	95'	4518.47'	342.97'	-60.30'	-337.73'	343.07'	259.88°	1.03°
33	4638.00'	7.00°	263.20°	96'	4613.77'	354.58'	-61.67'	-349.26'	354.66'	259.99°	0.10°
34	4733.00'	7.00°	262.30°	95'	4708.06'	366.16'	-63.13'	-360.75'	366.23'	260.07°	0.12°
35	4827.00'	6.60°	263.30°	94'	4801.40'	377.28'	-64.53'	-371.79'	377.35'	260.15°	0.44°
36	4921.00'	7.70°	263.70°	94'	4894.66'	388.97'	-65.85'	-383.41'	389.03'	260.25°	1.17°
37	5015.00'	8.90°	261.80°	94'	4987.68'	402.53'	-67.58'	-396.87'	402.58'	260.34°	1.31°
38	5110.00'	8.70°	263.70°	95'	5081.56'	417.06'	-69.42'	-411.28'	417.10'	260.42°	0.37°
39	5205.00'	8.60°	264.00°	95'	5175.48'	431.33'	-70.95'	-425.49'	431.36'	260.53°	0.12°
40	5301.00'	8.70°	263.60°	96'	5270.39'	445.76'	-72.51'	-439.84'	445.78'	260.64°	0.12°
41	5394.00'	8.80°	264.60°	93'	5362.30'	459.89'	-73.96'	-453.92'	459.90'	260.75°	0.20°
42	5489.00'	8.40°	260.50°	95'	5456.24'	474.08'	-75.79'	-467.99'	474.09'	260.80°	0.77°
43	5584.00'	8.80°	259.10°	95'	5550.17'	488.28'	-78.31'	-481.97'	488.29'	260.77°	0.48°
44	5679.00'	9.10°	260.70°	95'	5644.01'	503.05'	-80.90'	-496.52'	503.07'	260.75°	0.41°
45	5776.00'	9.40°	261.00°	97'	5739.75'	518.64'	-83.38'	-511.92'	518.66'	260.75°	0.31°
46	5871.00'	8.70°	262.40°	95'	5833.57'	533.59'	-85.54'	-526.70'	533.60'	260.78°	0.77°
47	5966.00'	8.70°	263.60°	95'	5927.47'	547.95'	-87.29'	-540.96'	547.96'	260.83°	0.19°
48	6060.00'	8.80°	265.40°	94'	6020.38'	562.22'	-88.66'	-555.20'	562.23'	260.93°	0.31°
49	6155.00'	8.80°	264.20°	95'	6114.26'	576.73'	-89.98'	-569.67'	576.73'	261.02°	0.19°
50	6250.00'	8.70°	262.50°	95'	6208.16'	591.17'	-91.65'	-584.02'	591.17'	261.08°	0.29°
51	6345.00'	8.70°	263.00°	95'	6302.06'	605.53'	-93.47'	-598.28'	605.53'	261.12°	0.08°
52	6441.00'	7.90°	263.30°	96'	6397.06'	619.38'	-95.12'	-612.04'	619.38'	261.17°	0.83°
53	6537.00'	7.90°	261.30°	96'	6492.15'	632.57'	-96.89'	-625.11'	632.57'	261.19°	0.29°
54	6633.00'	8.10°	261.90°	96'	6587.21'	645.93'	-98.84'	-638.33'	645.93'	261.20°	0.23°
55	6727.00'	8.20°	261.80°	94'	6680.26'	659.26'	-100.73'	-651.52'	659.26'	261.21°	0.11°
56	6822.00'	8.40°	262.50°	95'	6774.27'	672.97'	-102.60'	-665.10'	672.97'	261.23°	0.24°
57	6916.00'	8.70°	264.60°	94'	6867.22'	686.93'	-104.16'	-678.99'	686.93'	261.28°	0.46°
58	7011.00'	8.80°	268.80°	95'	6961.12'	701.31'	-104.99'	-693.41'	701.31'	261.39°	0.68°
59	7106.00'	8.10°	264.30°	95'	7055.09'	715.19'	-105.81'	-707.33'	715.20'	261.49°	1.01°
60	7201.00'	8.30°	264.10°	95'	7149.12'	728.72'	-107.18'	-720.81'	728.74'	261.54°	0.21°
61	7296.00'	8.80°	263.20°	95'	7243.06'	742.84'	-108.74'	-734.85'	742.85'	261.58°	0.54°
62	7392.00'	9.20°	263.90°	96'	7337.88'	757.84'	-110.43'	-749.77'	757.86'	261.62°	0.43°
63	7485.00'	8.40°	264.50°	93'	7429.78'	772.05'	-111.87'	-763.92'	772.07'	261.67°	0.87°
64	7581.00'	7.70°	256.20°	96'	7524.84'	785.46'	-114.08'	-777.15'	785.48'	261.65°	1.41°
65	7676.00'	7.70°	254.90°	95'	7618.98'	798.12'	-117.25'	-789.48'	798.14'	261.55°	0.18°
66	7770.00'	7.50°	255.60°	94'	7712.16'	810.49'	-120.42'	-801.50'	810.49'	261.46°	0.23°
67	7866.00'	8.10°	257.10°	96'	7807.27'	823.47'	-123.49'	-814.16'	823.47'	261.38°	0.66°
68	7962.00'	7.90°	257.50°	96'	7902.33'	836.80'	-126.43'	-827.19'	836.80'	261.31°	0.22°
69	8056.00'	8.90°	259.40°	94'	7995.32'	850.51'	-129.16'	-840.65'	850.51'	261.27°	1.10°
70	8151.00'	8.70°	259.30°	95'	8089.21'	865.04'	-131.85'	-854.93'	865.04'	261.23°	0.21°
71	8246.00'	11.20°	258.50°	95'	8182.77'	881.44'	-135.02'	-871.03'	881.44'	261.19°	2.64°
72	8341.00'	13.80°	261.00°	95'	8275.51'	901.99'	-138.63'	-891.27'	901.99'	261.16°	2.79°
73	8436.00'	15.40°	260.70°	95'	8367.44'	925.93'	-142.44'	-914.91'	925.93'	261.15°	1.69°
74	8530.00'	15.30°	260.30°	94'	8458.09'	950.81'	-146.55'	-939.45'	950.81'	261.13°	0.15°
75	8624.00'	16.60°	264.60°	94'	8548.47'	976.62'	-149.90'	-965.05'	976.62'	261.17°	1.87°
76	8719.00'	18.80°	262.60°	95'	8638.97'	1005.47'	-153.15'	-993.74'	1005.47'	261.24°	2.40°
77	8814.00'	20.40°	262.80°	95'	8728.46'	1037.33'	-157.20'	-1025.35'	1037.33'	261.28°	1.69°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
78	8910.00'	23.20°	261.30°	96'	8817.59'	1072.97'	-162.16'	-1060.65'	1072.97'	261.31°	2.97°
79	9005.00'	25.50°	261.90°	95'	8904.13'	1112.14'	-167.87'	-1099.39'	1112.14'	261.32°	2.43°
80	9101.00'	27.20°	261.70°	96'	8990.15'	1154.74'	-173.95'	-1141.57'	1154.74'	261.34°	1.77°
81	9195.00'	28.10°	261.20°	94'	9073.42'	1198.36'	-180.44'	-1184.70'	1198.37'	261.34°	0.99°
82	9291.00'	28.10°	259.60°	96'	9158.10'	1243.57'	-187.98'	-1229.28'	1243.57'	261.31°	0.79°
83	9386.00'	28.20°	259.50°	95'	9241.87'	1288.37'	-196.11'	-1273.36'	1288.37'	261.24°	0.12°
84	9449.00'	27.30°	261.00°	63'	9297.62'	1317.70'	-201.08'	-1302.27'	1317.70'	261.22°	1.81°
85	9551.00'	26.70°	262.00°	102'	9388.50'	1364.00'	-207.93'	-1348.06'	1364.00'	261.23°	0.74°
86	9645.00'	26.10°	263.40°	94'	9472.70'	1405.78'	-213.25'	-1389.52'	1405.78'	261.28°	0.92°
87	9741.00'	25.80°	263.80°	96'	9559.02'	1447.75'	-217.93'	-1431.26'	1447.76'	261.34°	0.36°
88	10484.00'	25.80°	263.80°	743'	10227.96'	1770.80'	-252.85'	-1752.75'	1770.89'	261.79°	0.00°

10/23/2013
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107 HENDERSON ROAD
 LAFAYETTE, LA 70508
 PH (318) 234-9183
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CLIENT: NORTHCOAST OIL COMPANY
 WELL: ALLAIN LAND CO. WELL #1
 LOCATION: MARY PARISH
 RIG: KEY #1213
 JOB: SRGL-472610-L PERRY COOKE / TODD DELAHOUSAYE 10/13/06

TOTAL CORRECTION 0.00 ° E
 SLOT ELEVATION: 15.00 ft
 VERT. Y
 PLAN OF VERTICAL SECT.: 261.22°

Minimum Curvature Calculations

Measured Depth (Feet)	Inc. Angle (°/dec.)	Azimuth Direction (°/dec.)	Azimuth Direction (quad)	Vertical Depth (Feet)	Sub Sea Depth (Feet)	Rectangular Coordinates (Feet) N/S	Rectangular Coordinates (Feet) E/W	Closure Distance (Feet)	Closure Direction (°/dec.)	Closure Direction (quad)	Dog Leg Severity (°/dec.)	Verti Secti (fee
9741.00	25.80	263.80	S 83.80 W	9559.02	9544.02	217.93 S	1431.20 W	1447.70	261.34	S 81.34 W	0.00	1447.
JANIC SURFACE RECORDING GYRO MULTI-SHOT TIED INTO NORTHCOAST SUPPLIED DATA @ 9,741' M.D.												
9800.00	24.89	263.15	S 83.15 W	9612.34	9597.34	220.80 S	1456.29 W	1472.94	261.38	S 81.38 W	1.61	1472.
9900.00	24.60	264.47	S 84.47 W	9703.16	9688.16	225.31 S	1497.90 W	1514.75	261.45	S 81.45 W	0.62	1514.
10000.00	24.66	265.92	S 85.92 W	9794.06	9779.06	228.80 S	1539.43 W	1556.34	261.55	S 81.55 W	0.61	1556.
10100.00	24.12	267.67	S 87.67 W	9885.14	9870.14	231.12 S	1580.65 W	1597.46	261.68	S 81.68 W	0.90	1597.
10200.00	24.29	268.47	S 88.47 W	9976.35	9961.35	232.50 S	1621.63 W	1638.21	261.84	S 81.84 W	0.37	1638.
10300.00	23.96	270.35	N 89.65 W	10067.61	10052.61	232.92 S	1662.50 W	1678.73	262.02	S 82.02 W	0.84	1678.
10384.00	23.76	270.85	N 89.15 W	10144.43	10129.43	232.57 S	1696.47 W	1712.34	262.19	S 82.19 W	0.34	1712.