



**DRILLING DESIGN
PROPOSAL
FOR**

Mr. Dan Dodd

PURE RESOURCES

WEST INDIAN "11" FEDERAL #2

EDDY COUNTY, NEW MEXICO

30 - 015 - 34017

December 20, 2004

RECEIVED

MAR 23 2005

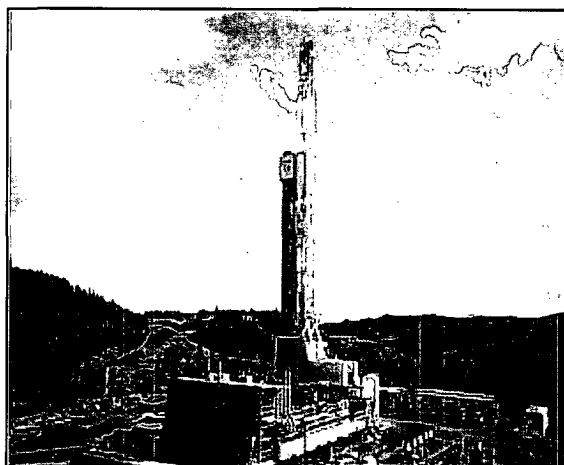
OPERATIONS

Presented By:

Larry Williams
Operations Manager

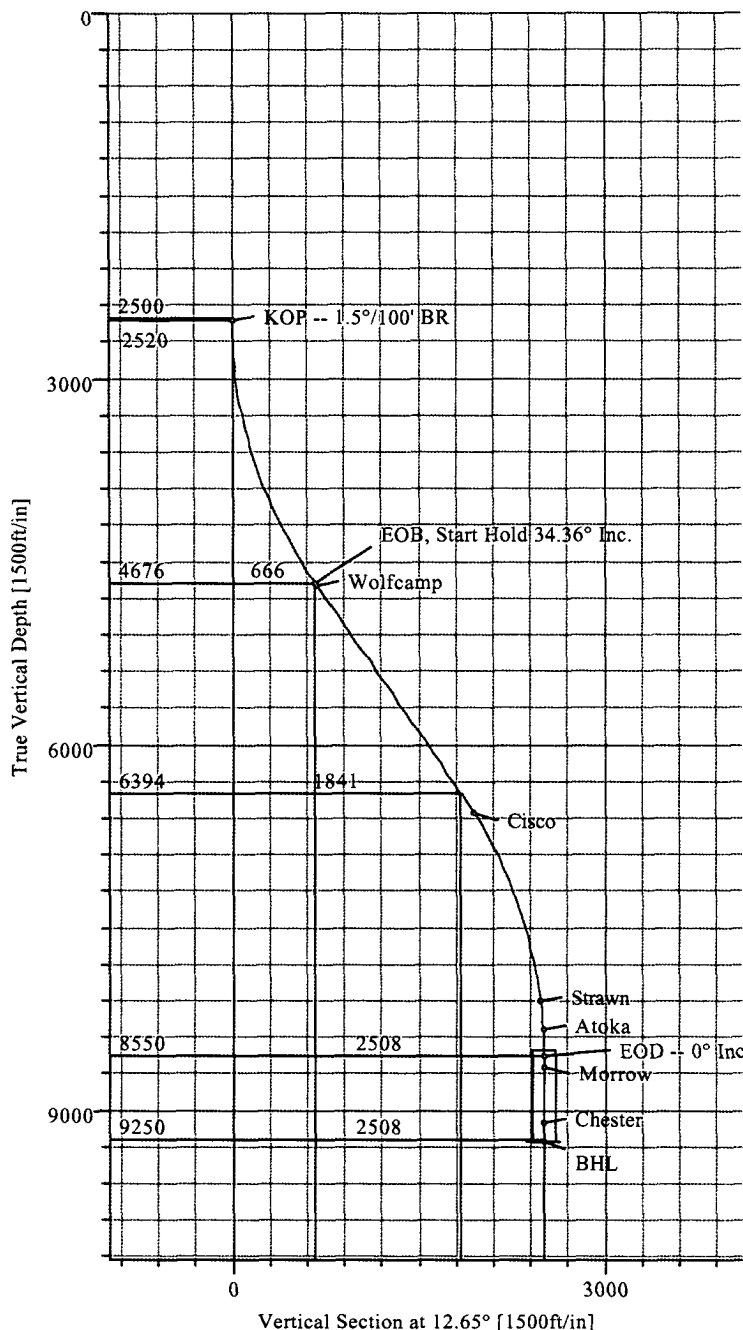
Pete Orteiz
Sr. Drilling Systems Engineer

Jason Hulslander
Directional Coordinator

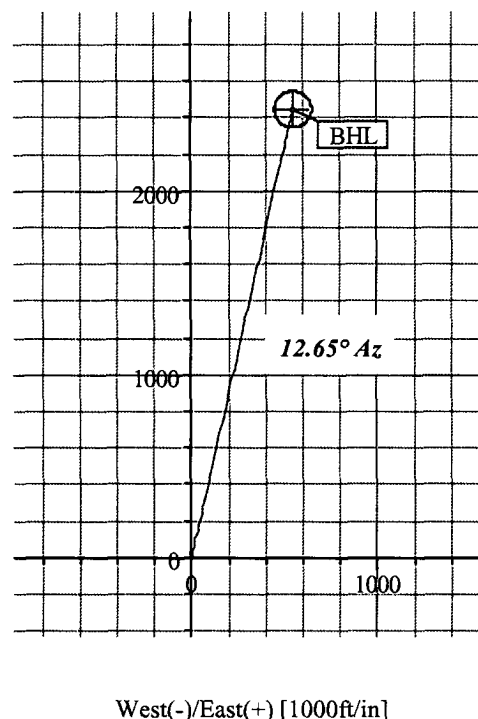




WEST INDIAN "11" FEDERAL #2 EDDY COUNTY, NEW MEXICO PURE RESOURCES



South(-)/North(+) [1000ft/in]



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-/S	+E-/W	DLeg	TFace	VSec	Target
1	2500.00	0.00	12.65	2500.00	0.00	0.00	0.00	0.00	0.00	
2	2520.00	0.00	12.65	2520.00	0.00	0.00	0.00	0.00	0.00	
3	4810.51	34.36	12.65	4675.69	650.25	145.92	1.50	12.65	666.42	
4	6892.36	34.36	12.65	6394.31	1796.65	403.18	0.00	0.00	1841.33	
5	9182.87	0.00	12.65	8550.00	2446.90	549.10	1.50	180.00	2507.75	
6	9882.87	0.00	12.65	9250.00	2446.90	549.10	0.00	0.00	2507.75	BHL

Company: Pure Resources Field: West Indian Site: West Indian "11" Federal Well: #2 Wellpath: 1	Date: 12/20/2004 Co-ordinate(NE) Reference: Well: #2, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: User (0.00N,0.00E,12.65Azi) Plan: 1.5° B&D	Page: 1
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Field: West Indian

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2000

Site: West Indian "11" Federal
 Sec 11, T 21S, R 22E

Site Position:	Northing: 542607.60 ft	Latitude: 32 29 28.651 N
From: Map	Easting: 396549.90 ft	Longitude: 104 40 7.858 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 0.00 ft		Grid Convergence: -0.18 deg

Well: #2

Slot Name:

Well Position:	Northing: 542607.60 ft	Latitude: 32 29 28.651 N
+N/-S 0.00 ft	Easting: 396549.90 ft	Longitude: 104 40 7.858 W
+E/-W 0.00 ft		
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 12/20/2004		Tie-on Depth: 0.00 ft
Field Strength: 49475 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 9.09 deg
ft	ft	Mag Dip Angle: 60.47 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00 12.65

Plan: 1.5° B&D

Date Composed: 12/20/2004
Version: 1
Tied-to: User Defined

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
2500.00	0.00	12.65	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2520.00	0.00	12.65	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	
4810.51	34.36	12.65	4675.69	650.25	145.92	1.50	1.50	0.00	12.65	
6892.36	34.36	12.65	6394.31	1796.65	403.18	0.00	0.00	0.00	0.00	
9182.87	0.00	12.65	8550.00	2446.90	549.10	1.50	-1.50	0.00	180.00	
9882.87	0.00	12.65	9250.00	2446.90	549.10	0.00	0.00	0.00	0.00	BHL

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2500.00	0.00	12.65	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2520.00	0.00	12.65	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	12.65

Section 2 : Start Build 1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2600.00	1.20	12.65	2599.99	0.82	0.18	0.84	1.50	1.50	0.00	0.00
2700.00	2.70	12.65	2699.93	4.14	0.93	4.24	1.50	1.50	0.00	0.00
2800.00	4.20	12.65	2799.75	10.01	2.25	10.26	1.50	1.50	0.00	0.00
2900.00	5.70	12.65	2899.37	18.43	4.14	18.89	1.50	1.50	0.00	0.00
3000.00	7.20	12.65	2998.74	29.39	6.60	30.12	1.50	1.50	0.00	0.00
3100.00	8.70	12.65	3097.77	42.88	9.62	43.95	1.50	1.50	0.00	0.00
3200.00	10.20	12.65	3196.41	58.90	13.22	60.37	1.50	1.50	0.00	0.00
3300.00	11.70	12.65	3294.59	77.44	17.38	79.36	1.50	1.50	0.00	0.00
3400.00	13.20	12.65	3392.24	98.47	22.10	100.92	1.50	1.50	0.00	0.00
3500.00	14.70	12.65	3489.28	121.99	27.38	125.03	1.50	1.50	0.00	0.00
3600.00	16.20	12.65	3585.67	147.99	33.21	151.67	1.50	1.50	0.00	0.00

Company: Pure Resources
Field: West Indian
Site: West Indian "11" Federal
Well: #2
Wellpath: 1

Date: 12/20/2004 Time: 11:49:44
Co-ordinate(NE) Reference: Well: #2, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: User (0.00N,0.00E,12.65Azi)
Plan: 1.5° B&D

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Section 2 : Start Build 1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3700.00	17.70	12.65	3681.32	176.43	39.59	180.82	1.50	1.50	0.00	0.00
3800.00	19.20	12.65	3776.18	207.31	46.52	212.47	1.50	1.50	0.00	0.00
3900.00	20.70	12.65	3870.17	240.60	53.99	246.59	1.50	1.50	0.00	0.00
4000.00	22.20	12.65	3963.25	276.28	62.00	283.15	1.50	1.50	0.00	0.00
4100.00	23.70	12.65	4055.33	314.33	70.54	322.15	1.50	1.50	0.00	0.00
4200.00	25.20	12.65	4146.36	354.71	79.60	363.53	1.50	1.50	0.00	0.00
4300.00	26.70	12.65	4236.27	397.41	89.18	407.29	1.50	1.50	0.00	0.00
4400.00	28.20	12.65	4325.01	442.39	99.27	453.39	1.50	1.50	0.00	0.00
4500.00	29.70	12.65	4412.51	489.61	109.87	501.79	1.50	1.50	0.00	0.00
4600.00	31.20	12.65	4498.72	539.06	120.97	552.47	1.50	1.50	0.00	0.00
4700.00	32.70	12.65	4583.57	590.69	132.56	605.38	1.50	1.50	0.00	0.00
4800.00	34.20	12.65	4667.00	644.48	144.62	660.50	1.50	1.50	0.00	0.00
4810.51	34.36	12.65	4675.69	650.25	145.92	666.42	1.50	1.50	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4900.00	34.36	12.65	4749.56	699.53	156.98	716.93	0.00	0.00	0.00	0.00
5000.00	34.36	12.65	4832.11	754.60	169.34	773.36	0.00	0.00	0.00	0.00
5100.00	34.36	12.65	4914.67	809.66	181.69	829.80	0.00	0.00	0.00	0.00
5200.00	34.36	12.65	4997.22	864.73	194.05	886.23	0.00	0.00	0.00	0.00
5300.00	34.36	12.65	5079.77	919.80	206.41	942.67	0.00	0.00	0.00	0.00
5400.00	34.36	12.65	5162.33	974.86	218.77	999.11	0.00	0.00	0.00	0.00
5500.00	34.36	12.65	5244.88	1029.93	231.12	1055.54	0.00	0.00	0.00	0.00
5600.00	34.36	12.65	5327.43	1084.99	243.48	1111.98	0.00	0.00	0.00	0.00
5700.00	34.36	12.65	5409.99	1140.06	255.84	1168.41	0.00	0.00	0.00	0.00
5800.00	34.36	12.65	5492.54	1195.13	268.19	1224.85	0.00	0.00	0.00	0.00
5900.00	34.36	12.65	5575.09	1250.19	280.55	1281.29	0.00	0.00	0.00	0.00
6000.00	34.36	12.65	5657.64	1305.26	292.91	1337.72	0.00	0.00	0.00	0.00
6100.00	34.36	12.65	5740.20	1360.33	305.27	1394.16	0.00	0.00	0.00	0.00
6200.00	34.36	12.65	5822.75	1415.39	317.62	1450.59	0.00	0.00	0.00	0.00
6300.00	34.36	12.65	5905.30	1470.46	329.98	1507.03	0.00	0.00	0.00	0.00
6400.00	34.36	12.65	5987.86	1525.52	342.34	1563.46	0.00	0.00	0.00	0.00
6500.00	34.36	12.65	6070.41	1580.59	354.69	1619.90	0.00	0.00	0.00	0.00
6600.00	34.36	12.65	6152.96	1635.66	367.05	1676.34	0.00	0.00	0.00	0.00
6700.00	34.36	12.65	6235.52	1690.72	379.41	1732.77	0.00	0.00	0.00	0.00
6800.00	34.36	12.65	6318.07	1745.79	391.77	1789.21	0.00	0.00	0.00	0.00
6892.36	34.36	12.65	6394.31	1796.65	403.18	1841.33	0.00	0.00	0.00	0.00

Section 4 : Start Drop -1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
6900.00	34.24	12.65	6400.63	1800.85	404.12	1845.64	1.50	-1.50	0.00	-180.00
7000.00	32.74	12.65	6484.02	1854.69	416.20	1900.82	1.50	-1.50	0.00	180.00
7100.00	31.24	12.65	6568.83	1906.39	427.81	1953.80	1.50	-1.50	0.00	180.00
7200.00	29.74	12.65	6654.99	1955.90	438.92	2004.54	1.50	-1.50	0.00	180.00
7300.00	28.24	12.65	6742.46	2003.19	449.53	2053.01	1.50	-1.50	0.00	180.00
7400.00	26.74	12.65	6831.16	2048.23	459.64	2099.17	1.50	-1.50	0.00	180.00
7500.00	25.24	12.65	6921.05	2090.99	469.23	2143.00	1.50	-1.50	0.00	-180.00
7600.00	23.74	12.65	7012.05	2131.45	478.31	2184.45	1.50	-1.50	0.00	180.00
7700.00	22.24	12.65	7104.10	2169.56	486.86	2223.52	1.50	-1.50	0.00	180.00
7800.00	20.74	12.65	7197.14	2205.31	494.89	2260.15	1.50	-1.50	0.00	180.00
7900.00	19.24	12.65	7291.11	2238.67	502.37	2294.34	1.50	-1.50	0.00	-180.00
8000.00	17.74	12.65	7385.95	2269.62	509.32	2326.06	1.50	-1.50	0.00	180.00
8100.00	16.24	12.65	7481.58	2298.13	515.72	2355.29	1.50	-1.50	0.00	180.00
8200.00	14.74	12.65	7577.94	2324.19	521.56	2382.00	1.50	-1.50	0.00	180.00
8300.00	13.24	12.65	7674.97	2347.79	526.86	2406.18	1.50	-1.50	0.00	180.00
8400.00	11.74	12.65	7772.60	2368.89	531.59	2427.81	1.50	-1.50	0.00	180.00
8500.00	10.24	12.65	7870.76	2387.50	535.77	2446.88	1.50	-1.50	0.00	180.00
8600.00	8.74	12.65	7969.39	2403.59	539.38	2463.37	1.50	-1.50	0.00	180.00
8700.00	7.24	12.65	8068.42	2417.16	542.43	2477.27	1.50	-1.50	0.00	180.00
8800.00	5.74	12.65	8167.77	2428.19	544.90	2488.58	1.50	-1.50	0.00	180.00

Company: Pure Resources
 Field: West Indian
 Site: West Indian "11" Federal
 Well: #2
 Wellpath: 1

Date: 12/20/2004 Time: 11:49:44
 Co-ordinate(N/E) Reference: Well: #2, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: User (0.00N,0.00E,12.65Azi)
 Plan: 1.5° B&D

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Section 4 : Start Drop -1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
8900.00	4.24	12.65	8267.39	2436.68	546.81	2497.28	1.50	-1.50	0.00	180.00
9000.00	2.74	12.65	8367.20	2442.63	548.14	2503.38	1.50	-1.50	0.00	180.00
9100.00	1.24	12.65	8467.14	2446.02	548.90	2506.86	1.50	-1.50	0.00	180.00
9182.87	0.00	12.65	8550.00	2446.90	549.10	2507.75	1.50	-1.50	0.00	-180.00

Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
9200.00	0.00	12.65	8567.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9300.00	0.00	12.65	8667.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9400.00	0.00	12.65	8767.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9500.00	0.00	12.65	8867.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9600.00	0.00	12.65	8967.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9700.00	0.00	12.65	9067.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9800.00	0.00	12.65	9167.13	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65
9882.87	0.00	12.65	9250.00	2446.90	549.10	2507.75	0.00	0.00	0.00	12.65

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
2500.00	0.00	12.65	2500.00	0.00	0.00	542607.60	396549.90	32	29	28.651 N	104	40	7.858 W
2520.00	0.00	12.65	2520.00	0.00	0.00	542607.60	396549.90	32	29	28.651 N	104	40	7.858 W
2600.00	1.20	12.65	2599.99	0.82	0.18	542608.42	396550.08	32	29	28.659 N	104	40	7.856 W
2700.00	2.70	12.65	2699.93	4.14	0.93	542611.74	396550.83	32	29	28.692 N	104	40	7.848 W
2800.00	4.20	12.65	2799.75	10.01	2.25	542617.61	396552.15	32	29	28.750 N	104	40	7.832 W
2900.00	5.70	12.65	2899.37	18.43	4.14	542626.03	396554.04	32	29	28.833 N	104	40	7.811 W
3000.00	7.20	12.65	2998.74	29.39	6.60	542636.99	396556.50	32	29	28.942 N	104	40	7.782 W
3100.00	8.70	12.65	3097.77	42.88	9.62	542650.48	396559.52	32	29	29.076 N	104	40	7.747 W
3200.00	10.20	12.65	3196.41	58.90	13.22	542666.50	396563.12	32	29	29.234 N	104	40	7.706 W
3300.00	11.70	12.65	3294.59	77.44	17.38	542685.04	396567.28	32	29	29.418 N	104	40	7.658 W
3400.00	13.20	12.65	3392.24	98.47	22.10	542706.07	396572.00	32	29	29.626 N	104	40	7.604 W
3500.00	14.70	12.65	3489.28	121.99	27.38	542729.59	396577.28	32	29	29.859 N	104	40	7.543 W
3600.00	16.20	12.65	3585.67	147.99	33.21	542755.59	396583.11	32	29	30.116 N	104	40	7.476 W
3700.00	17.70	12.65	3681.32	176.43	39.59	542784.03	396589.49	32	29	30.398 N	104	40	7.402 W
3800.00	19.20	12.65	3776.18	207.31	46.52	542814.91	396596.42	32	29	30.704 N	104	40	7.323 W
3900.00	20.70	12.65	3870.17	240.60	53.99	542848.20	396603.89	32	29	31.034 N	104	40	7.237 W
4000.00	22.20	12.65	3963.25	276.28	62.00	542883.88	396611.90	32	29	31.387 N	104	40	7.145 W
4100.00	23.70	12.65	4055.33	314.33	70.54	542921.93	396620.44	32	29	31.764 N	104	40	7.046 W
4200.00	25.20	12.65	4146.36	354.71	79.60	542962.31	396629.50	32	29	32.164 N	104	40	6.942 W
4300.00	26.70	12.65	4236.27	397.41	89.18	543005.01	396639.08	32	29	32.586 N	104	40	6.832 W
4400.00	28.20	12.65	4325.01	442.39	99.27	543049.99	396649.17	32	29	33.032 N	104	40	6.715 W
4500.00	29.70	12.65	4412.51	489.61	109.87	543097.21	396659.77	32	29	33.499 N	104	40	6.593 W
4600.00	31.20	12.65	4498.72	539.06	120.97	543146.66	396670.87	32	29	33.989 N	104	40	6.466 W
4700.00	32.70	12.65	4583.57	590.69	132.56	543198.29	396682.46	32	29	34.500 N	104	40	6.332 W
4800.00	34.20	12.65	4667.00	644.48	144.62	543252.08	396694.52	32	29	35.033 N	104	40	6.193 W
4810.51	34.36	12.65	4675.69	650.25	145.92	543257.85	396695.82	32	29	35.090 N	104	40	6.178 W
4900.00	34.36	12.65	4749.56	699.53	156.98	543307.13	396706.88	32	29	35.578 N	104	40	6.051 W
5000.00	34.36	12.65	4832.11	754.60	169.34	543362.20	396719.24	32	29	36.124 N	104	40	5.909 W
5100.00	34.36	12.65	4914.67	809.66	181.69	543417.26	396731.59	32	29	36.669 N	104	40	5.767 W
5200.00	34.36	12.65	4997.22	864.73	194.05	543472.33	396743.95	32	29	37.214 N	104	40	5.624 W
5300.00	34.36	12.65	5079.77	919.80	206.41	543527.40	396756.31	32	29	37.759 N	104	40	5.482 W
5400.00	34.36	12.65	5162.33	974.86	218.77	543582.46	396768.67	32	29	38.305 N	104	40	5.340 W
5500.00	34.36	12.65	5244.88	1029.93	231.12	543637.53	396781.02	32	29	38.850 N	104	40	5.198 W
5600.00	34.36	12.65	5327.43	1084.99	243.48	543692.59	396793.38	32	29	39.395 N	104	40	5.055 W
5700.00	34.36	12.65	5409.99	1140.06	255.84	543747.66	396805.74	32	29	39.941 N	104	40	4.913 W

Company: Pure Resources
Field: West Indian
Site: West Indian "11" Federal
Well: #2
Wellpath: 1

Date: 12/20/2004 Time: 11:49:44
Co-ordinate(NE) Reference: Well: #2, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: User (0.00N,0.00E,12.65Azi)
Plan: 1.5° B&D

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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
5800.00	34.36	12.65	5492.54	1195.13	268.19	543802.73	396818.09	32	29	40.486 N	104	40	4.771 W
5900.00	34.36	12.65	5575.09	1250.19	280.55	543857.79	396830.45	32	29	41.031 N	104	40	4.628 W
6000.00	34.36	12.65	5657.64	1305.26	292.91	543912.86	396842.81	32	29	41.577 N	104	40	4.486 W
6100.00	34.36	12.65	5740.20	1360.33	305.27	543967.93	396855.17	32	29	42.122 N	104	40	4.344 W
6200.00	34.36	12.65	5822.75	1415.39	317.62	544022.99	396867.52	32	29	42.667 N	104	40	4.202 W
6300.00	34.36	12.65	5905.30	1470.46	329.98	544078.06	396879.88	32	29	43.213 N	104	40	4.059 W
6400.00	34.36	12.65	5987.86	1525.52	342.34	544133.12	396892.24	32	29	43.758 N	104	40	3.917 W
6500.00	34.36	12.65	6070.41	1580.59	354.69	544188.19	396904.59	32	29	44.303 N	104	40	3.775 W
6600.00	34.36	12.65	6152.96	1635.66	367.05	544243.26	396916.95	32	29	44.848 N	104	40	3.633 W
6700.00	34.36	12.65	6235.52	1690.72	379.41	544298.32	396929.31	32	29	45.394 N	104	40	3.490 W
6800.00	34.36	12.65	6318.07	1745.79	391.77	544353.39	396941.67	32	29	45.939 N	104	40	3.348 W
6892.36	34.36	12.65	6394.31	1796.65	403.18	544404.25	396953.08	32	29	46.443 N	104	40	3.217 W
6900.00	34.24	12.65	6400.63	1800.85	404.12	544408.45	396954.02	32	29	46.484 N	104	40	3.206 W
7000.00	32.74	12.65	6484.02	1854.69	416.20	544462.29	396966.10	32	29	47.017 N	104	40	3.067 W
7100.00	31.24	12.65	6568.83	1906.39	427.81	544513.99	396977.71	32	29	47.529 N	104	40	2.933 W
7200.00	29.74	12.65	6654.99	1955.90	438.92	544563.50	396988.82	32	29	48.020 N	104	40	2.805 W
7300.00	28.24	12.65	6742.46	2003.19	449.53	544610.79	396999.43	32	29	48.488 N	104	40	2.683 W
7400.00	26.74	12.65	6831.16	2048.23	459.64	544655.83	397009.54	32	29	48.934 N	104	40	2.567 W
7500.00	25.24	12.65	6921.05	2090.99	469.23	544698.59	397019.13	32	29	49.358 N	104	40	2.456 W
7600.00	23.74	12.65	7012.05	2131.45	478.31	544739.05	397028.21	32	29	49.758 N	104	40	2.352 W
7700.00	22.24	12.65	7104.10	2169.56	486.86	544777.16	397036.76	32	29	50.136 N	104	40	2.253 W
7800.00	20.74	12.65	7197.14	2205.31	494.89	544812.91	397044.79	32	29	50.490 N	104	40	2.161 W
7900.00	19.24	12.65	7291.11	2238.67	502.37	544846.27	397052.27	32	29	50.820 N	104	40	2.075 W
8000.00	17.74	12.65	7385.95	2269.62	509.32	544877.22	397059.22	32	29	51.126 N	104	40	1.995 W
8100.00	16.24	12.65	7481.58	2298.13	515.72	544905.73	397065.62	32	29	51.409 N	104	40	1.921 W
8200.00	14.74	12.65	7577.94	2324.19	521.56	544931.79	397071.46	32	29	51.667 N	104	40	1.854 W
8300.00	13.24	12.65	7674.97	2347.79	526.86	544955.39	397076.76	32	29	51.900 N	104	40	1.793 W
8400.00	11.74	12.65	7772.60	2368.89	531.59	544976.49	397081.49	32	29	52.109 N	104	40	1.738 W
8500.00	10.24	12.65	7870.76	2387.50	535.77	544995.10	397085.67	32	29	52.294 N	104	40	1.690 W
8600.00	8.74	12.65	7969.39	2403.59	539.38	545011.19	397089.28	32	29	52.453 N	104	40	1.648 W
8700.00	7.24	12.65	8068.42	2417.16	542.43	545024.76	397092.33	32	29	52.587 N	104	40	1.613 W
8800.00	5.74	12.65	8167.77	2428.19	544.90	545035.79	397094.80	32	29	52.697 N	104	40	1.585 W
8900.00	4.24	12.65	8267.39	2436.68	546.81	545044.28	397096.71	32	29	52.781 N	104	40	1.563 W
9000.00	2.74	12.65	8367.20	2442.63	548.14	545050.23	397098.04	32	29	52.840 N	104	40	1.548 W
9100.00	1.24	12.65	8467.14	2446.02	548.90	545053.62	397098.80	32	29	52.873 N	104	40	1.539 W
9182.87	0.00	12.65	8550.00	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9200.00	0.00	12.65	8567.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9300.00	0.00	12.65	8667.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9400.00	0.00	12.65	8767.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9500.00	0.00	12.65	8867.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9600.00	0.00	12.65	8967.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9700.00	0.00	12.65	9067.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9800.00	0.00	12.65	9167.13	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W
9882.87	0.00	12.65	9250.00	2446.90	549.10	545054.50	397099.00	32	29	52.882 N	104	40	1.537 W