

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr , Other _____						5 Lease Serial No NM 110332			
2 Name of Operator CHEVRON MIDCONTINENT, L.P.						6 If Indian, Allottee or Tribe Name N/A			
3 Address 15 SMITH ROAD, MIDLAND, TEXAS 79705				3a Phone No (include area code) 432-687-7375		7 Unit or CA Agreement Name and No 33615			
4 Location of Well (Report location clearly and in accordance with Federal requirements)* 2150' FSL & 1185' FEL, UL:1, SEC 11, T-21-S, R-22-E At surface At top prod interval reported below At total depth						8 Lease Name and Well No WEST INDIAN "11" FEDERAL #2			
14 Date Spudded 06/16/2005						15 Date T D Reached 07/28/2005			
16 Date Completed 08/12/2005 ☐ D & A ☒ Ready to Prod						9 AFI Well No 30-015-34017			
18 Total Depth MD 9860' TVD				19 Plug Back T D MD TVD		10 Field and Pool or Exploratory INDIAN BASIN; MORROW, WEST			
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) PLATFORM EXPRESS						11 Sec, T, R, M, on Block and Survey or Area			
22 Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)						12 County or Parish EDDY			
23 Casing and Liner Record (Report all strings set in well)						13 State NM			
Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	48#			364'	1085 SX		SURFACE	
12 1/4"	8 5/8"	32#			1748'	1500 SX		SURFACE	
7 7/8"	5 1/2"	17#			9860'	300 SX		7810'	
24 Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8"	9280'	9280'							
25 Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf Status	
A) MORROW		9381'	9536'	9381-9397, 9461-9536'				PRODUCING	
B)									
C)									
D)									
27 Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
9381-9536'		FRAC W/59,000 GALS 70Q XL 7% KCL & SAND							
28 Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
09/01/05	04/15/06	24	→	3	373	20			FLOWING
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
18/64"			→	3	373	20	124333	PRODUCING	
28a Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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OCD-ARTESIA

*(See instructions and spaces for additional data on page 2)

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29 Disposition of Gas (Solid, used for fuel, vented, etc)
SOLD

30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
GLORIETA	1847'	4903'	SHALE, DOLOMITE		
WOLFCAMP	4904'	6615'	DOLOMITE, SHALE, LIME		
CISCO	6616'	8657'	SHALE, LIMESTONE		
STRAWN	8658'	8945'	SHALE, LIME		
ATOKA	8946'	9253'	SHALE, CHLORIDE		
MORROW	9254'	9668'	SAND, SHALE		

32 Additional remarks (include plugging procedure)

" Previous operators failed to turn in completion papers for this New well- "

33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) DENISE PINKERTON

Title REGULATORY SPECIALIST

Signature *Denise Pinkerton*

Date 07/28/2008

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 3)

(Form 3160-4, page 2)

PathFinder

Survey Report

Company: PURE Resources	Date: 7/29/2005	Time: 08:56:43	Page: 1
Field: West Indian Basin	Co-ordinate(NE) Reference: Site: West Indian 11 Federal #2		
Site: West Indian 11 Federal #2	Vertical (TVD) Reference: SITE 0.0		
Well: West Indian '11' Federal #2	Section (VS) Reference: Site (0.00N,0.00E,10.41Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: West Indian Basin Eddy County, New Mexico	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: West Indian 11 Federal #2	AUG - 1 2008		
Eddy County, New Mexico	OCD-ARTESIA		
Site Position:	Northing: 542592.50 ft	Latitude: 32 29 28.502 N	
From: Map	Easting: 396564.80 ft	Longitude: 104 40 7.684 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 4207.00 ft		Grid Convergence: -0.18 deg	

Well: West Indian '11' Federal #2	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 29 28.502 N
+E/-W 0.00 ft	Longitude: 104 40 7.684 W
Position Uncertainty: 0.00 ft	

Wellpath: Original Hole	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 6/28/2005	Above System Datum: Mean Sea Level
Field Strength: 49281 nT	Declination: 8.79 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.38 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	10.41

Survey: Gyro Survey	Start Date: 6/29/2005
Company: SDI	Engineer:
Tool:	Tied-to: From Surface

Survey: Gyro Survey									
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.25	342.45	100.00	0.21	-0.07	0.19	0.25	0.25	0.00
200.00	0.36	239.29	200.00	0.26	-0.40	0.18	0.48	0.11	-103.16
300.00	1.24	143.15	299.99	-0.77	-0.02	-0.76	1.33	0.88	-96.14
400.00	2.20	132.97	399.94	-2.94	2.03	-2.53	1.00	0.96	-10.18
500.00	2.44	148.16	499.86	-6.06	4.56	-5.14	0.66	0.24	15.19
600.00	2.75	159.90	599.76	-10.12	6.51	-8.78	0.61	0.31	11.74
700.00	2.90	155.24	699.64	-14.67	8.39	-12.92	0.27	0.15	-4.66
800.00	3.70	163.25	799.47	-20.06	10.38	-17.85	0.92	0.80	8.01
900.00	3.95	168.77	899.25	-26.53	11.98	-23.93	0.44	0.25	5.52
1000.00	4.12	170.30	999.00	-33.45	13.26	-30.50	0.20	0.17	1.53
1100.00	4.32	170.93	1098.73	-40.71	14.45	-37.43	0.21	0.20	0.63
1200.00	4.53	170.17	1198.43	-48.32	15.72	-44.68	0.22	0.21	-0.76
1300.00	4.07	170.11	1298.15	-55.70	17.01	-51.71	0.46	-0.46	-0.06
1400.00	4.12	164.32	1397.90	-62.66	18.59	-58.27	0.42	0.05	-5.79
1500.00	3.47	165.71	1497.68	-69.05	20.30	-64.25	0.66	-0.65	1.39
1600.00	2.91	169.02	1597.52	-74.48	21.53	-69.36	0.59	-0.56	3.31
1640.00	2.50	175.72	1637.48	-76.34	21.79	-71.15	1.29	-1.02	16.75

Pathfinder

Survey Report

Page 1
Job No: JWT-0506-0101-WTWT
Date: 7/28/2005
Time: 3:48 pm
Wellpath ID: 05060101
Date Created: 6/29/2005
Last Revision: 7/28/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 10.41 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

PURE RESOURCES
WEST INDIAN "11" FED. #2
NABORS #329
EDDY COUNTY, NM.
WEST INDIAN

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
TIE-IN TO SDI GYRO										
1640.00	2.50	175.72	0.00	1637.47	-71.15	76.34 S	21.79 E	0.00	0.00	0.00
BEGIN PATHFINDER MWD SURRVEYS										
1788.00	2.02	169.63	148.00	1785.35	-76.71	82.12 S	22.50 E	-4.11	-0.32	0.36
1819.00	1.58	151.52	31.00	1816.34	-77.55	83.04 S	22.80 E	-58.42	-1.42	2.30
1851.00	0.79	120.24	32.00	1848.33	-77.97	83.54 S	23.20 E	-97.75	-2.47	3.10
1882.00	1.06	64.16	31.00	1879.33	-77.87	83.52 S	23.65 E	-180.90	0.87	2.91
1913.00	2.11	30.15	31.00	1910.32	-77.17	82.90 S	24.19 E	-109.71	3.39	4.41
1944.00	2.64	20.57	31.00	1941.29	-75.93	81.74 S	24.73 E	-30.90	1.71	2.13
1975.00	3.25	13.54	31.00	1972.25	-74.35	80.22 S	25.19 E	-22.68	1.97	2.28
2007.00	3.69	9.05	32.00	2004.19	-72.41	78.32 S	25.56 E	-14.03	1.38	1.62
2038.00	3.96	9.14	31.00	2035.12	-70.34	76.28 S	25.89 E	0.29	0.87	0.87
2068.00	4.22	6.86	30.00	2065.05	-68.21	74.16 S	26.18 E	-7.60	0.87	1.02
2099.00	4.57	6.59	31.00	2095.95	-65.83	71.80 S	26.46 E	-0.87	1.13	1.13
2130.00	4.84	5.36	31.00	2126.85	-63.30	69.27 S	26.72 E	-3.97	0.87	0.93
2161.00	4.92	2.81	31.00	2157.74	-60.68	66.64 S	26.91 E	-8.23	0.26	0.75
2192.00	5.36	6.33	31.00	2188.61	-57.92	63.87 S	27.14 E	11.35	1.42	1.75
2224.00	5.63	7.03	32.00	2220.47	-54.86	60.83 S	27.49 E	2.19	0.84	0.87
2285.00	6.33	11.51	61.00	2281.13	-48.51	54.56 S	28.53 E	7.34	1.15	1.38
2347.00	7.21	15.38	62.00	2342.70	-41.22	47.46 S	30.24 E	6.24	1.42	1.60
2409.00	8.18	12.75	62.00	2404.14	-32.93	39.41 S	32.25 E	-4.24	1.56	1.66
2471.00	9.06	10.37	62.00	2465.44	-23.64	30.31 S	34.10 E	-3.84	1.42	1.53
2534.00	10.02	9.84	63.00	2527.57	-13.20	20.03 S	35.93 E	-0.84	1.52	1.53
2597.00	11.08	10.37	63.00	2589.50	-1.67	8.67 S	37.96 E	0.84	1.68	1.69
2659.00	12.49	9.84	62.00	2650.20	10.99	3.80 N	40.18 E	-0.85	2.27	2.28
2720.00	13.72	10.90	61.00	2709.61	24.82	17.40 N	42.67 E	1.74	2.02	2.05
2782.00	14.77	8.97	62.00	2769.70	40.08	32.43 N	45.29 E	-3.11	1.69	1.86
2844.00	16.09	9.49	62.00	2829.46	56.57	48.71 N	47.94 E	0.84	2.13	2.14
2906.00	17.59	9.58	62.00	2888.80	74.53	66.42 N	50.92 E	0.15	2.42	2.42
2967.00	19.43	8.97	61.00	2946.64	93.89	85.53 N	54.04 E	-1.00	3.02	3.03
3028.00	21.63	8.09	61.00	3003.77	115.27	106.69 N	57.20 E	-1.44	3.61	3.64
3090.00	22.60	8.79	62.00	3061.20	138.59	129.77 N	60.63 E	1.13	1.56	1.62
3152.00	24.27	9.15	62.00	3118.09	163.24	154.13 N	64.48 E	0.58	2.69	2.70
3213.00	26.12	8.09	61.00	3173.28	189.20	179.80 N	68.36 E	-1.74	3.03	3.12

Pathfinder Survey Report

Page 2
Date: 7/28/2005
Wellpath ID: 05060101

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
3276.00	28.05	8.18	63.00	3229.37	217.86	208.20 N	72.42 E	0.14	3.06	3.06
3338.00	28.40	8.71	62.00	3284.00	247.16	237.20 N	76.73 E	0.85	0.56	0.69
3399.00	28.49	8.71	61.00	3337.64	276.20	265.92 N	81.13 E	0.00	0.15	0.15
3462.00	28.75	7.21	63.00	3392.94	306.35	295.81 N	85.30 E	-2.38	0.41	1.21
3524.00	29.11	7.30	62.00	3447.20	336.30	325.56 N	89.09 E	0.15	0.58	0.58
3586.00	28.49	9.76	62.00	3501.53	366.14	355.09 N	93.51 E	3.97	-1.00	2.16
3648.00	28.40	9.85	62.00	3556.05	395.67	384.19 N	98.54 E	0.15	-0.15	0.16
3709.00	28.40	10.90	61.00	3609.71	424.68	412.73 N	103.77 E	1.72	0.00	0.82
3894.00	29.11	7.21	185.00	3771.91	513.62	500.58 N	117.74 E	-1.99	0.38	1.03
3956.00	28.49	8.09	62.00	3826.24	543.45	530.18 N	121.71 E	1.42	-1.00	1.21
4018.00	27.36	9.67	62.00	3881.02	572.47	558.87 N	126.18 E	2.55	-1.82	2.18
4081.00	27.00	9.94	63.00	3937.06	601.25	587.23 N	131.08 E	0.43	-0.57	0.60
4173.00	26.64	8.27	92.00	4019.17	642.74	628.21 N	137.66 E	-1.82	-0.39	0.91
4265.00	26.82	11.08	92.00	4101.34	684.11	668.99 N	144.61 E	3.05	0.20	1.39
4359.00	27.26	10.46	94.00	4185.06	726.84	710.97 N	152.60 E	-0.66	0.47	0.56
4452.00	27.61	9.94	93.00	4267.60	769.69	753.14 N	160.18 E	-0.56	0.38	0.46
4544.00	27.26	13.36	92.00	4349.26	812.05	794.64 N	168.73 E	3.72	-0.38	1.75
4637.00	27.96	13.80	93.00	4431.67	855.09	836.54 N	178.85 E	0.47	0.75	0.78
4729.00	25.50	5.81	92.00	4513.86	896.37	877.20 N	186.01 E	-8.68	-2.67	4.73
4792.00	24.53	0.97	63.00	4570.96	922.80	903.78 N	187.60 E	-7.68	-1.54	3.59
4855.00	24.09	358.69	63.00	4628.37	948.29	929.71 N	187.53 E	-3.62	-0.70	1.65
4918.00	25.32	2.38	63.00	4685.61	974.22	956.02 N	187.79 E	5.86	1.95	3.13
4980.00	27.17	4.84	62.00	4741.21	1001.44	983.38 N	189.54 E	3.97	2.98	3.46
5043.00	28.49	7.48	63.00	4796.93	1030.76	1012.61 N	192.71 E	4.19	2.10	2.87
5106.00	29.19	9.76	63.00	4852.12	1061.13	1042.65 N	197.27 E	3.62	1.11	2.07
5169.00	29.63	10.90	63.00	4907.00	1092.07	1073.08 N	202.82 E	1.81	0.70	1.13
5232.00	30.16	10.20	63.00	4961.61	1123.47	1103.95 N	208.57 E	-1.11	0.84	1.01
5295.00	30.78	10.55	63.00	5015.91	1155.41	1135.38 N	214.32 E	0.56	0.98	1.02
5358.00	31.22	10.55	63.00	5069.92	1187.86	1167.27 N	220.26 E	0.00	0.70	0.70
5421.00	30.34	10.64	63.00	5124.04	1220.10	1198.96 N	226.19 E	0.14	-1.40	1.40
5483.00	30.34	10.20	62.00	5177.55	1251.42	1229.77 N	231.85 E	-0.71	0.00	0.36
5545.00	30.69	10.82	62.00	5230.96	1282.90	1260.72 N	237.60 E	1.00	0.56	0.76
5608.00	30.78	10.73	63.00	5285.11	1315.09	1292.35 N	243.61 E	-0.14	0.14	0.16
5669.00	29.72	10.64	61.00	5337.81	1345.82	1322.54 N	249.31 E	-0.15	-1.74	1.74
5858.00	25.06	8.71	189.00	5505.58	1432.73	1408.20 N	264.03 E	-1.02	-2.47	2.51
5920.00	22.42	8.27	62.00	5562.32	1457.68	1432.89 N	267.72 E	-0.71	-4.26	4.27
5977.00	20.22	9.94	57.00	5615.42	1478.39	1453.35 N	270.99 E	2.93	-3.86	4.00
6040.00	19.61	12.57	63.00	5674.65	1499.84	1474.39 N	275.17 E	4.17	-0.97	1.72
6104.00	19.08	15.21	64.00	5735.04	1521.00	1494.97 N	280.25 E	4.13	-0.83	1.60
6166.00	19.17	16.35	62.00	5793.62	1541.22	1514.52 N	285.77 E	1.84	0.15	0.62
6228.00	19.70	17.93	62.00	5852.09	1561.71	1534.23 N	291.86 E	2.55	0.85	1.20
6291.00	19.08	17.32	63.00	5911.51	1582.46	1554.16 N	298.19 E	-0.97	-0.98	1.04
6353.00	20.05	16.88	62.00	5969.93	1603.08	1574.00 N	304.29 E	-0.71	1.56	1.58
6417.00	23.39	15.83	64.00	6029.38	1626.63	1596.73 N	310.95 E	-1.64	5.22	5.25
6480.00	23.30	15.83	63.00	6087.22	1651.49	1620.75 N	317.76 E	0.00	-0.14	0.14
6544.00	24.53	16.44	64.00	6145.73	1677.30	1645.67 N	324.97 E	0.95	1.92	1.96

Pathfinder **Survey Report**

Page 3
Date: 7/28/2005
Wellpath ID: 05060101

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
6608.00	25.06	15.91	64.00	6203.83	1704.00	1671.45 N	332.44 E	-0.83	0.83	0.90
6674.00	24.89	15.47	66.00	6263.66	1731.75	1698.27 N	339.98 E	-0.67	-0.26	0.38
6736.00	25.06	14.95	62.00	6319.86	1757.84	1723.54 N	346.85 E	-0.84	0.27	0.45
6799.00	26.03	13.89	63.00	6376.70	1784.94	1749.85 N	353.61 E	-1.68	1.54	1.70
6863.00	26.64	13.36	64.00	6434.06	1813.28	1777.44 N	360.30 E	-0.83	0.95	1.02
6922.00	27.26	13.01	59.00	6486.65	1839.99	1803.47 N	366.39 E	-0.59	1.05	1.08
6985.00	25.50	11.96	63.00	6543.09	1867.96	1830.80 N	372.45 E	-1.67	-2.79	2.89
7049.00	23.39	11.17	64.00	6601.35	1894.44	1856.74 N	377.77 E	-1.23	-3.30	3.34
7112.00	21.02	10.73	63.00	6659.67	1918.25	1880.12 N	382.30 E	-0.70	-3.76	3.77
7175.00	19.43	10.73	63.00	6718.78	1940.02	1901.51 N	386.35 E	0.00	-2.52	2.52
7238.00	17.06	10.02	63.00	6778.61	1959.75	1920.91 N	389.91 E	-1.13	-3.76	3.78
7319.00	15.39	8.88	81.00	6856.38	1982.37	1943.23 N	393.64 E	-1.41	-2.06	2.10
7381.00	16.44	7.12	62.00	6916.01	1999.36	1960.07 N	395.99 E	-2.84	1.69	1.86
7445.00	15.04	4.22	64.00	6977.61	2016.66	1977.34 N	397.73 E	-4.53	-2.19	2.51
7505.00	16.36	5.01	60.00	7035.37	2032.81	1993.52 N	399.04 E	1.32	2.20	2.23
7568.00	16.88	1.32	63.00	7095.74	2050.67	2011.50 N	400.02 E	-5.86	0.83	1.87
7631.00	16.44	0.18	63.00	7156.09	2068.48	2029.56 N	400.26 E	-1.81	-0.70	0.87
7693.00	16.53	4.22	62.00	7215.55	2085.88	2047.13 N	400.94 E	6.52	0.15	1.85
7754.00	17.67	6.95	61.00	7273.85	2103.75	2064.98 N	402.70 E	4.48	1.87	2.29
7816.00	18.82	8.79	62.00	7332.73	2123.14	2084.20 N	405.37 E	2.97	1.85	2.07
7880.00	18.03	7.56	64.00	7393.45	2143.35	2104.22 N	408.25 E	-1.92	-1.23	1.38
7941.00	17.59	7.12	61.00	7451.53	2161.98	2122.73 N	410.63 E	-0.72	-0.72	0.75
8004.00	17.24	7.48	63.00	7511.64	2180.81	2141.43 N	413.03 E	0.57	-0.56	0.58
8067.00	16.88	8.62	63.00	7571.87	2199.28	2159.73 N	415.61 E	1.81	-0.57	0.78
8129.00	15.30	10.73	62.00	7631.44	2216.45	2176.67 N	418.48 E	3.40	-2.55	2.72
8193.00	14.68	12.75	64.00	7693.26	2233.00	2192.87 N	421.85 E	3.16	-0.97	1.27
8255.00	13.63	6.86	62.00	7753.38	2248.14	2207.79 N	424.45 E	-9.50	-1.69	2.87
8317.00	13.45	5.01	62.00	7813.66	2262.61	2222.23 N	425.95 E	-2.98	-0.29	0.76
8379.00	12.22	6.60	62.00	7874.11	2276.34	2235.93 N	427.34 E	2.56	-1.98	2.06
8443.00	10.90	8.71	64.00	7936.81	2289.15	2248.64 N	429.03 E	3.30	-2.06	2.17
8506.00	10.38	8.71	63.00	7998.72	2300.77	2260.14 N	430.80 E	0.00	-0.83	0.83
8569.00	9.58	11.43	63.00	8060.77	2311.69	2270.88 N	432.69 E	4.32	-1.27	1.47
8632.00	8.97	11.61	63.00	8122.95	2321.84	2280.83 N	434.72 E	0.29	-0.97	0.97
8695.00	8.44	10.82	63.00	8185.22	2331.37	2290.19 N	436.58 E	-1.25	-0.84	0.86
8759.00	7.56	8.79	64.00	8248.60	2340.28	2298.96 N	438.10 E	-3.17	-1.37	1.44
8822.00	6.86	7.30	63.00	8311.10	2348.18	2306.79 N	439.21 E	-2.37	-1.11	1.15
8884.00	6.24	5.63	62.00	8372.69	2355.23	2313.81 N	440.01 E	-2.69	-1.00	1.05
8946.00	5.89	5.54	62.00	8434.35	2361.76	2320.33 N	440.65 E	-0.15	-0.56	0.56
9038.00	5.36	3.35	92.00	8525.90	2370.73	2329.32 N	441.36 E	-2.38	-0.58	0.62
9131.00	4.31	4.84	93.00	8618.57	2378.52	2337.14 N	441.91 E	1.60	-1.13	1.14
9225.00	3.96	0.09	94.00	8712.33	2385.23	2343.91 N	442.21 E	-5.05	-0.37	0.52
9318.00	3.43	354.03	93.00	8805.13	2391.06	2349.88 N	441.93 E	-6.52	-0.57	0.71
9412.00	3.25	342.08	94.00	8898.98	2396.10	2355.22 N	440.81 E	-12.71	-0.19	0.76
9504.00	3.08	334.61	92.00	8990.84	2400.40	2359.93 N	438.95 E	-8.12	-0.18	0.48
9598.00	2.99	325.20	94.00	9084.71	2404.18	2364.22 N	436.47 E	-10.01	-0.10	0.54
9692.00	2.37	294.09	94.00	9178.61	2406.36	2367.03 N	433.30 E	-33.10	-0.66	1.66

Pathfinder Survey Report

Page 4
Date: 7/28/2005
Wellpath ID: 05060101

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
9778.00	2.55	275.72	86.00	9264.53	2406.63	2367.95 N	429.77 E	-21.36	0.21	0.94
STRAIGHT LINE PROJECTION TO BIT @ 9860'										
9860.00	2.55	275.72	82.00	9346.45	2406.33	2368.31 N	426.14 E	0.00	0.00	0.00

PathFinder

Survey Report

Company: PURE Resources	Date: 7/28/2005	Time: 16:02:11	Page: 1
Field: West Indian Basin	Co-ordinate(NE) Reference: Site: West Indian 11 Federal #2		
Site: West Indian 11 Federal #2	Vertical (TVD) Reference: SITE 0.0		
Well: West Indian '11' Federal #2	Section (VS) Reference: Site (0.00N,0.00E,10.41Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: West Indian Basin
Eddy County, New Mexico

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: Site Centre
Geomagnetic Model: igrf2005

AUG - 1 2006

Site: West Indian 11 Federal #2
Eddy County, New Mexico

OCD-ARTESIA

Site Position:	Northing: 542592.50 ft	Latitude: 32 29 28.502 N
From: Map	Easting: 396564 80 ft	Longitude: 104 40 7 684 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 4207.00 ft		Grid Convergence: -0.18 deg

Well: West Indian '11' Federal #2

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 542592.50 ft	Latitude: 32 29 28.502 N
+E/-W 0.00 ft	Easting: 396564 80 ft	Longitude: 104 40 7.684 W
Position Uncertainty: 0.00 ft		

Wellpath: Original Hole

Current Datum: SITE	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 6/28/2005		Tie-on Depth: 0.00 ft
Field Strength: 49281 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)		Declination: 8 79 deg
ft	+N/-S ft	Mag Dip Angle: 60.38 deg
		+E/-W ft
		Direction deg
0.00	0.00	0.00
		10.41

Survey: PathFinder MWD Surveys

Start Date: 7/5/2005

Company: PathFinder Energy Services
Tool:

Engineer: Ron McIntyre
Tied-to: From Definitive Path

Survey: PathFinder MWD Surveys

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	Tool/Comment
1640.00	2.50	175.72	1637.48	-76.34	21.79	-71.15	0.00	0.00	0.00	Tie-In to SDI Gyro Begin PathFinder MWD Sur
1788.00	2.02	169.63	1785.36	-82.13	22.50	-76.71	0.36	-0.32	-4.11	
1819.00	1.58	151.52	1816.35	-83.04	22.81	-77.55	2.30	-1.42	-58.42	
1851.00	0.79	120.24	1848.34	-83.54	23.21	-77.97	3.10	-2.47	-97.75	
1882.00	1.06	64.16	1879.34	-83.52	23.65	-77.87	2.91	0.87	-180.90	
1913.00	2.11	30.15	1910.33	-82.90	24.19	-77.17	4.41	3.39	-109.71	
1944.00	2.64	20.57	1941.30	-81.74	24.73	-75.93	2.13	1.71	-30.90	
1975.00	3.25	13.54	1972.26	-80.22	25.19	-74.35	2.28	1.97	-22.68	
2007.00	3.69	9.05	2004.20	-78.32	25.56	-72.41	1.62	1.37	-14.03	
2038.00	3.96	9.14	2035.13	-76.28	25.89	-70.34	0.87	0.87	0.29	
2068.00	4.22	6.86	2065.05	-74.16	26.19	-68.21	1.02	0.87	-7.60	
2099.00	4.57	6.59	2095.96	-71.80	26.46	-65.84	1.13	1.13	-0.87	
2130.00	4.84	5.36	2126.86	-69.27	26.73	-63.30	0.93	0.87	-3.97	
2161.00	4.92	2.81	2157.75	-66.64	26.92	-60.68	0.75	0.26	-8.23	
2192.00	5.36	6.33	2188.62	-63.87	27.14	-57.92	1.75	1.42	11.35	
2224.00	5.63	7.03	2220.47	-60.83	27.50	-54.86	0.87	0.84	2.19	
2285.00	6.33	11.51	2281.14	-54.57	28.53	-48.51	1.38	1.15	7.34	
2347.00	7.21	15.38	2342.71	-47.46	30.25	-41.22	1.60	1.42	6.24	
2409.00	8.18	12.75	2404.15	-39.41	32.25	-32.93	1.66	1.56	-4.24	
2471.00	9.06	10.37	2465.45	-30.31	34.11	-23.65	1.53	1.42	-3.84	
2534.00	10.02	9.84	2527.58	-20.03	35.94	-13.20	1.53	1.52	-0.84	
2597.00	11.08	10.37	2589.51	-8.67	37.96	-1.67	1.69	1.68	0.84	
2659.00	12.49	9.84	2650.20	3.79	40.18	10.99	2.28	2.27	-0.85	
2720.00	13.72	10.90	2709.61	17.40	42.68	24.82	2.05	2.02	1.74	

PathFinder

Survey Report

Company: PURE Resources	Date: 7/28/2005	Time: 16:02:11	Page: 2
Field: West Indian Basin	Co-ordinate(NE) Reference:	Site: West Indian 11 Federal #2	
Site: West Indian 11 Federal #2	Vertical (TVD) Reference:	SITE 0.0	
Well: West Indian '11' Federal #2	Section (VS) Reference:	Site (0.00N,0.00E,10.41Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: PathFinder MWD Surveys

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	Tool/Comment
2782.00	14.77	8.97	2769.71	32.42	45.30	40.08	1.86	1.69	-3.11	
2844.00	16.09	9.49	2829.47	48.71	47.95	56.57	2.14	2.13	0.84	
2906.00	17.59	9.58	2888.81	66.42	50.92	74.53	2.42	2.42	0.15	
2967.00	19.43	8.97	2946.65	85.53	54.04	93.89	3.03	3.02	-1.00	
3028.00	21.63	8.09	3003.78	106.69	57.20	115.27	3.64	3.61	-1.44	
3090.00	22.60	8.79	3061.21	129.77	60.63	138.59	1.62	1.56	1.13	
3152.00	24.27	9.15	3118.10	154.13	64.48	163.24	2.70	2.69	0.58	
3213.00	26.12	8.09	3173.29	179.80	68.36	189.19	3.12	3.03	-1.74	
3276.00	28.05	8.18	3229.38	208.20	72.42	217.85	3.06	3.06	0.14	
3338.00	28.40	8.71	3284.01	237.20	76.73	247.16	0.69	0.56	0.85	
3399.00	28.49	8.71	3337.64	265.92	81.13	276.20	0.15	0.15	0.00	
3462.00	28.75	7.21	3392.95	295.80	85.31	306.35	1.21	0.41	-2.38	
3524.00	29.11	7.30	3447.21	325.56	89.09	336.30	0.58	0.58	0.15	
3586.00	28.49	9.76	3501.54	355.09	93.52	366.14	2.16	-1.00	3.97	
3648.00	28.40	9.85	3556.06	384.19	98.55	395.67	0.16	-0.15	0.15	
3709.00	28.40	10.90	3609.72	412.73	103.77	424.68	0.82	0.00	1.72	
3894.00	29.11	7.21	3771.91	500.58	117.74	513.62	1.03	0.38	-1.99	
3956.00	28.49	8.09	3826.25	530.18	121.71	543.45	1.21	-1.00	1.42	
4018.00	27.36	9.67	3881.03	558.87	126.19	572.47	2.18	-1.82	2.55	
4081.00	27.00	9.94	3937.07	587.23	131.09	601.25	0.60	-0.57	0.43	
4173.00	26.64	8.27	4019.17	628.21	137.66	642.74	0.91	-0.39	-1.82	
4265.00	26.82	11.08	4101.35	668.99	144.61	684.11	1.39	0.20	3.05	
4359.00	27.26	10.46	4185.07	710.97	152.60	726.84	0.56	0.47	-0.66	
4452.00	27.61	9.94	4267.61	753.14	160.19	769.69	0.46	0.38	-0.56	
4544.00	27.26	13.36	4349.27	794.64	168.73	812.05	1.75	-0.38	3.72	
4637.00	27.96	13.80	4431.68	836.54	178.86	855.08	0.78	0.75	0.47	
4729.00	25.50	5.81	4513.87	877.20	186.01	896.37	4.73	-2.67	-8.68	
4792.00	24.53	0.97	4570.96	903.77	187.60	922.80	3.59	-1.54	-7.68	
4855.00	24.09	358.69	4628.38	929.70	187.53	948.29	1.65	-0.70	-3.62	
4918.00	25.32	2.38	4685.61	956.02	187.80	974.22	3.13	1.95	5.86	
4980.00	27.17	4.84	4741.22	983.38	189.54	1001.44	3.46	2.98	3.97	
5043.00	28.49	7.48	4796.94	1012.61	192.71	1030.76	2.87	2.10	4.19	
5106.00	29.19	9.76	4852.12	1042.65	197.27	1061.13	2.07	1.11	3.62	
5169.00	29.63	10.90	4907.01	1073.08	202.82	1092.07	1.13	0.70	1.81	
5232.00	30.16	10.20	4961.62	1103.95	208.57	1123.47	1.01	0.84	-1.11	
5295.00	30.78	10.55	5015.92	1135.37	214.32	1155.41	1.02	0.98	0.56	
5358.00	31.22	10.55	5069.92	1167.27	220.26	1187.86	0.70	0.70	0.00	
5421.00	30.34	10.64	5124.05	1198.96	226.19	1220.10	1.40	-1.40	0.14	
5483.00	30.34	10.20	5177.56	1229.76	231.86	1251.42	0.36	0.00	-0.71	
5545.00	30.69	10.82	5230.97	1260.72	237.60	1282.90	0.76	0.56	1.00	
5608.00	30.78	10.73	5285.12	1292.35	243.62	1315.09	0.16	0.14	-0.14	
5669.00	29.72	10.64	5337.81	1322.54	249.32	1345.82	1.74	-1.74	-0.15	
5858.00	25.06	8.71	5505.58	1408.20	264.04	1432.73	2.51	-2.47	-1.02	
5920.00	22.42	8.27	5562.33	1432.89	267.73	1457.68	4.27	-4.26	-0.71	
5977.00	20.22	9.94	5615.43	1453.35	270.99	1478.39	4.00	-3.86	2.93	
6040.00	19.61	12.57	5674.66	1474.39	275.17	1499.84	1.72	-0.97	4.17	
6104.00	19.08	15.21	5735.05	1494.97	280.25	1521.00	1.60	-0.83	4.12	
6166.00	19.17	16.35	5793.63	1514.51	285.78	1541.22	0.62	0.15	1.84	
6228.00	19.70	17.93	5852.10	1534.22	291.86	1561.71	1.20	0.85	2.55	
6291.00	19.08	17.32	5911.52	1554.16	298.19	1582.46	1.04	-0.98	-0.97	
6353.00	20.05	16.88	5969.94	1574.00	304.30	1603.08	1.58	1.56	-0.71	
6417.00	23.39	15.83	6029.39	1596.73	310.95	1626.63	5.25	5.22	-1.64	
6480.00	23.30	15.83	6087.23	1620.75	317.76	1651.48	0.14	-0.14	0.00	

PathFinder

Survey Report

Company: PURE Resources
 Field: West Indian Basin
 Site: West Indian 11 Federal #2
 Well: West Indian '11' Federal #2
 Wellpath: Original Hole

Date: 7/28/2005 Time: 16:02:11 Page: 3
 Co-ordinate(NE) Reference: Site: West Indian 11 Federal #2
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Site (0.00N,0.00E,10.41Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: PathFinder MWD Surveys

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	Tool/Comment
6544.00	24.53	16.44	6145.74	1645.67	324.97	1677.30	1.96	1.92	0.95	
6608.00	25.06	15.91	6203.84	1671.44	332.45	1704.00	0.90	0.83	-0.83	
6674.00	24.89	15.47	6263.66	1698.27	339.98	1731.75	0.38	-0.26	-0.67	
6736.00	25.06	14.95	6319.87	1723.53	346.85	1757.84	0.45	0.27	-0.84	
6799.00	26.03	13.89	6376.71	1749.84	353.61	1784.94	1.70	1.54	-1.68	
6863.00	26.64	13.36	6434.07	1777.44	360.30	1813.28	1.02	0.95	-0.83	
6922.00	27.26	13.01	6486.66	1803.47	366.40	1839.99	1.08	1.05	-0.59	
6985.00	25.50	11.96	6543.10	1830.80	372.46	1867.96	2.89	-2.79	-1.67	
7049.00	23.39	11.17	6601.36	1856.74	377.77	1894.44	3.34	-3.30	-1.23	
7112.00	21.02	10.73	6659.68	1880.11	382.30	1918.24	3.77	-3.76	-0.70	
7175.00	19.43	10.73	6718.79	1901.51	386.35	1940.02	2.52	-2.52	0.00	
7238.00	17.06	10.02	6778.62	1920.91	389.91	1959.75	3.78	-3.76	-1.13	
7319.00	15.39	8.88	6856.39	1943.23	393.64	1982.37	2.10	-2.06	-1.41	
7381.00	16.44	7.12	6916.02	1960.07	396.00	1999.36	1.86	1.69	-2.84	
7445.00	15.04	4.22	6977.62	1977.34	397.73	2016.65	2.51	-2.19	-4.53	
7505.00	16.36	5.01	7035.38	1993.52	399.04	2032.81	2.23	2.20	1.32	
7568.00	16.88	1.32	7095.75	2011.50	400.03	2050.67	1.87	0.83	-5.86	
7631.00	16.44	0.18	7156.10	2029.56	400.27	2068.48	0.87	-0.70	-1.81	
7693.00	16.53	4.22	7215.55	2047.13	400.94	2085.88	1.85	0.15	6.52	
7754.00	17.67	6.95	7273.86	2064.98	402.70	2103.75	2.29	1.87	4.48	
7816.00	18.82	8.79	7332.74	2084.20	405.37	2123.14	2.07	1.85	2.97	
7880.00	18.03	7.56	7393.46	2104.22	408.25	2143.35	1.38	-1.23	-1.92	
7941.00	17.59	7.12	7451.54	2122.72	410.63	2161.98	0.75	-0.72	-0.72	
8004.00	17.24	7.48	7511.65	2141.43	413.03	2180.81	0.58	-0.56	0.57	
8067.00	16.88	8.62	7571.88	2159.73	415.62	2199.28	0.78	-0.57	1.81	
8129.00	15.30	10.73	7631.45	2176.66	418.49	2216.45	2.72	-2.55	3.40	
8193.00	14.68	12.75	7693.27	2192.87	421.85	2233.00	1.27	-0.97	3.16	
8255.00	13.63	6.86	7753.39	2207.79	424.46	2248.14	2.87	-1.69	-9.50	
8317.00	13.45	5.01	7813.67	2222.22	425.96	2262.61	0.76	-0.29	-2.98	
8379.00	12.22	6.60	7874.12	2235.92	427.34	2276.34	2.06	-1.98	2.56	
8443.00	10.90	8.71	7936.82	2248.63	429.04	2289.15	2.17	-2.06	3.30	
8506.00	10.38	8.71	7998.73	2260.13	430.80	2300.77	0.83	-0.83	0.00	
8569.00	9.58	11.43	8060.78	2270.88	432.70	2311.69	1.47	-1.27	4.32	
8632.00	8.97	11.61	8122.96	2280.83	434.72	2321.84	0.97	-0.97	0.29	
8695.00	8.44	10.82	8185.23	2290.18	436.58	2331.37	0.86	-0.84	-1.25	
8759.00	7.56	8.79	8248.61	2298.96	438.11	2340.28	1.44	-1.37	-3.17	
8822.00	6.86	7.30	8311.11	2306.78	439.22	2348.18	1.15	-1.11	-2.37	
8884.00	6.24	5.63	8372.70	2313.81	440.02	2355.23	1.05	-1.00	-2.69	
8946.00	5.89	5.54	8434.36	2320.33	440.66	2361.76	0.56	-0.56	-0.15	
9038.00	5.36	3.35	8525.91	2329.32	441.36	2370.73	0.62	-0.58	-2.38	
9131.00	4.31	4.84	8618.58	2337.14	441.91	2378.52	1.14	-1.13	1.60	
9225.00	3.96	0.09	8712.34	2343.90	442.21	2385.23	0.52	-0.37	-5.05	
9318.00	3.43	354.03	8805.14	2349.88	441.93	2391.05	0.71	-0.57	-6.52	
9412.00	3.25	342.08	8898.98	2355.21	440.82	2396.10	0.76	-0.19	-12.71	
9504.00	3.08	334.61	8990.84	2359.93	438.96	2400.40	0.48	-0.18	-8.12	
9598.00	2.99	325.20	9084.71	2364.22	436.47	2404.17	0.54	-0.10	-10.01	
9692.00	2.37	294.09	9178.61	2367.03	433.30	2406.36	1.66	-0.66	-33.10	
9778.00	2.55	275.72	9264.54	2367.95	429.77	2406.62	0.94	0.21	-21.36	Last PathFinder MWD Survey
9860.00	2.55	275.72	9346.45	2368.31	426.14	2406.33	0.00	0.00	0.00	Straight-Line Bit Project

PathFinder Survey Report

Company: PURE Resources	Date: 7/28/2005	Time: 16:02:11	Page: 4
Field: West Indian Basin	Co-ordinate(NE) Reference:	Site: West Indian 11 Federal #2	
Site: West Indian 11 Federal #2	Vertical (TVD) Reference:	SITE 0.0	
Well: West Indian '11' Federal #2	Section (VS) Reference:	Site (0.00N,0.00E,10.41Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft.	TVD ft	
1640.00	1637.48	Tie-In to SDI Gyro
1788.00	1785.36	Begin PathFinder MWD Surveys
9778.00	9264.54	Last PathFinder MWD Survey
9860.00	9346.45	Straight-Line Bit Projection

PURE Resources

West Indian '11' Federal #2

Section 11, T21-S, R22-E

Eddy County, New Mexico

Final Plot

COMPANY DETAILS

PURE Resources
500 W Illinois Avenue
Midland, TX 79701

Calculation Method Minimum Curvature
Error System Systematic Ellipse
Scan Method Horizontal Plane
Error Surface Elliptical - Casing
Warning Method Error Ratio

PATHFINDER

ENERGY SERVICES

SITE DETAILS

West Indian 11 Federal #2
Eddy County New Mexico
Site Centre Northing 542592.50
Easting 396564.80
Ground Level 4207.00
Positional Uncertainty 0.00
Convergence -0.18

WELLPATH DETAILS

Original Hole
Rig Nabors #329
Ref Datum SITE 0.00ft
V Section Onigin Onigin Starting
Angle +N/-S +E/-W From TVD
10.41° 0.00 0.00 0.00

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
West Indian '11' Federal #2	0.00	0.00	542592.50	396564.80	32°29'18.50"N	104°40'07.68"W	N/A



Azimuths to Gnd North
True North 0.18°
Magnetic North 8.97°
Magnetic Field
Strength 4928 InT
Dip Angle 60.38°
Date 6/28/2005
Model agri2005

