



XTO Energy

Field: San Juan Co. New Mexico
Site: Fed Gas Com #3
Well: Fed Gas Com #3
Wellpath: Original Hole
Plan: Plan #1 4-19-06

PATHFINDER

30-045-32873

WELL DETAILS

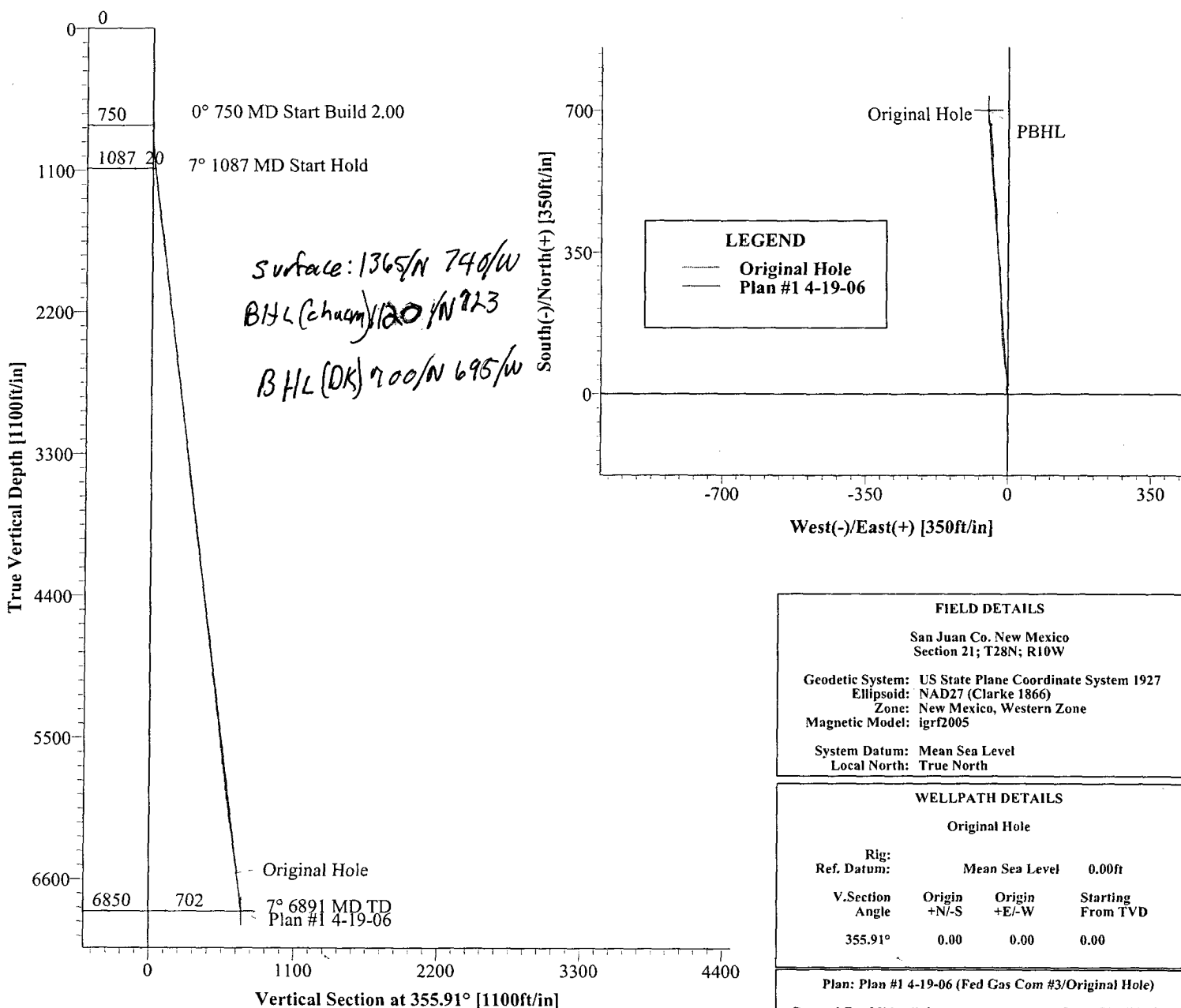
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Fed Gas Com #3	0.00	0.00	2051146.81	581515.95	36°38'12.300N	107°33'19.800W	N/A

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	355.91	0.00	0.00	0.00	0.00	0.00	0.00	
2	750.00	0.00	355.91	750.00	0.00	0.00	0.00	0.00	0.00	
3	1087.40	6.75	355.91	1086.62	19.80	-1.41	2.00	355.91	19.85	
4	6890.98	6.75	355.91	6850.00	700.00	-50.00	0.00	0.00	701.78	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	6850.00	700.00	-50.00	2051846.67	581463.92	36°38'19.222N	107°33'20.414W	Point



Pathfinder Energy Survey Report

PATHFINDER

Company: XTO Energy	Date: 7/13/2006	Time: 16:00:49	Page: 1
Field: San Juan Co. New Mexico	Co-ordinate(NE) Reference: Well: Fed Gas Com #3, True North		
Site: Fed Gas Com #3	Vertical (TVD) Reference: System: Mean Sea Level		
Well: Fed Gas Com #3	Section (VS) Reference: Well (0.00N,0.00E,355.91Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature		
	Db: Sybase		

Field: San Juan Co. New Mexico
Section 21; T28N; R10W

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

Map Zone: New Mexico, Western Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Fed Gas Com #3
San Juan County, New Mexico
1365' FNL 740' FWL Section 27; T28N; R10W

Site Position:	Northing:	ft	Latitude:
From: Lease Line	Easting:	ft	Longitude:
Position Uncertainty: 0.00 ft			North Reference: True
Ground Level: 6006.00 ft			Grid Convergence: 0.17 deg

Well: Fed Gas Com #3	Slot Name:
S-Well	
Well Position: +N/-S 0.00 ft	Northing: 2051146.81 ft
+E/-W 0.00 ft	Easting: 581515.95 ft
Position Uncertainty: 0.00 ft	Latitude: 36 38 12.300 N
	Longitude: 107 33 19.800 W

Wellpath: Original Hole	Drilled From: Surface
Current Datum: Mean Sea Level	Tie-on Depth: 0.00 ft
Magnetic Data: 4/19/2006	Above System Datum: Mean Sea Level
Field Strength: 51281 nT	Declination: 10.41 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.54 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	355.91

Survey: Pathfinder MWD Survey	Start Date: 5/1/2006
Company: Pathfinder Energy	Engineer:
Tool:	Tied-to: From Surface

Survey: Pathfinder MWD 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	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
198.00	0.05	100.00	198.00	-0.02	0.09	-0.02	0.03	0.03	0.00	
272.00	0.09	155.78	272.00	-0.07	0.14	-0.08	0.10	0.05	75.38	
364.00	0.26	357.23	364.00	0.07	0.16	0.06	0.38	0.18	-172.34	
458.00	0.18	231.54	458.00	0.19	0.03	0.19	0.42	-0.09	-133.71	
550.00	0.26	240.86	550.00	0.00	-0.26	0.02	0.09	0.09	10.13	
642.00	0.35	223.46	642.00	-0.31	-0.64	-0.26	0.14	0.10	-18.91	
736.00	0.18	249.56	736.00	-0.57	-0.97	-0.50	0.22	-0.18	27.77	
859.00	3.17	345.45	858.93	2.66	-2.01	2.79	2.60	2.43	77.96	
952.00	4.04	358.19	951.75	8.42	-2.76	8.60	1.27	0.94	13.70	
1047.00	6.51	1.36	1046.34	17.15	-2.74	17.30	2.62	2.60	3.34	
1138.00	6.86	1.36	1136.72	27.74	-2.48	27.85	0.38	0.38	0.00	
1232.00	7.12	354.06	1230.03	39.15	-2.95	39.26	0.98	0.28	-7.77	
1325.00	7.02	353.45	1322.32	50.53	-4.20	50.70	0.13	-0.11	-0.66	
1419.00	6.51	352.74	1415.66	61.52	-5.53	61.76	0.55	-0.54	-0.76	
1513.00	5.89	353.80	1509.11	71.60	-6.72	71.90	0.67	-0.66	1.13	
1606.00	7.39	353.80	1601.49	82.29	-7.88	82.64	1.61	1.61	0.00	
1701.00	6.86	354.06	1695.75	94.01	-9.13	94.42	0.56	-0.56	0.27	
1795.00	6.60	354.33	1789.10	104.97	-10.24	105.43	0.28	-0.28	0.29	
1889.00	5.25	351.25	1882.60	114.59	-11.43	115.12	1.47	-1.44	-3.28	
1982.00	6.95	356.35	1975.07	124.42	-12.44	124.99	1.92	1.83	5.48	
2075.00	6.51	354.77	2067.43	135.28	-13.28	135.88	0.51	-0.47	-1.70	
2167.00	7.56	359.07	2158.74	146.53	-13.85	147.14	1.28	1.14	4.67	
2260.00	7.21	358.55	2250.97	158.48	-14.10	159.08	0.38	-0.38	-0.56	

Pathfinder Energy

Survey Report

PATHFINDER

Company: XTO Energy Field: San Juan Co. New Mexico Site: Fed Gas Com #3 Well: Fed Gas Com #3 Wellpath: Original Hole	Date: 7/13/2006 Time: 16:00:49 Page: 2 Co-ordinate(NE) Reference: Well: Fed Gas Com #3, True North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,355.91Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD 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	Tool/Comment
2354.00	6.07	355.56	2344.33	169.33	-14.63	169.94	1.27	-1.21	-3.18	
2447.00	6.77	358.28	2436.75	179.71	-15.18	180.34	0.82	0.75	2.92	
2541.00	7.21	356.17	2530.05	191.14	-15.74	191.77	0.54	0.47	-2.24	
2635.00	6.42	355.38	2623.39	202.26	-16.55	202.93	0.85	-0.84	-0.84	
2728.00	6.86	359.77	2715.76	213.00	-17.00	213.67	0.72	0.47	4.72	
2822.00	6.42	1.36	2809.13	223.86	-16.89	224.50	0.51	-0.47	1.69	
2915.00	6.77	359.34	2901.52	234.54	-16.83	235.15	0.45	0.38	-2.17	
3007.00	6.24	358.02	2992.92	244.96	-17.07	245.56	0.60	-0.58	-1.43	
3100.00	6.24	359.42	3085.37	255.07	-17.29	255.65	0.16	0.00	1.51	
3194.00	6.77	358.02	3178.77	265.71	-17.54	266.29	0.59	0.56	-1.49	
3287.00	5.98	358.63	3271.19	276.03	-17.84	276.60	0.85	-0.85	0.66	
3381.00	6.33	358.55	3364.65	286.11	-18.09	286.67	0.37	0.37	-0.09	
3475.00	5.63	355.64	3458.14	295.89	-18.57	296.46	0.81	-0.74	-3.10	
3569.00	7.30	353.97	3551.54	306.43	-19.55	307.04	1.79	1.78	-1.78	
3663.00	6.33	351.95	3644.87	317.50	-20.90	318.18	1.06	-1.03	-2.15	
3757.00	6.77	351.25	3738.26	328.10	-22.47	328.87	0.48	0.47	-0.74	
3851.00	6.51	353.97	3831.63	338.88	-23.87	339.72	0.43	-0.28	2.89	
3945.00	7.03	359.42	3924.97	349.93	-24.49	350.79	0.88	0.55	5.80	
4039.00	6.42	356.17	4018.33	360.93	-24.90	361.78	0.76	-0.65	-3.46	
4132.00	7.47	357.14	4110.64	372.15	-25.55	373.03	1.14	1.13	1.04	
4222.00	7.12	355.03	4199.91	383.55	-26.33	384.45	0.49	-0.39	-2.34	
4316.00	6.51	355.20	4293.25	394.66	-27.28	395.61	0.65	-0.65	0.18	
4408.00	6.95	358.19	4384.62	405.43	-27.89	406.38	0.61	0.48	3.25	
4503.00	6.60	1.80	4478.95	416.63	-27.90	417.56	0.58	-0.37	3.80	
4596.00	6.33	0.92	4571.36	427.10	-27.65	427.98	0.31	-0.29	-0.95	
4690.00	6.86	356.96	4664.74	437.88	-27.86	438.75	0.74	0.56	-4.21	
4753.00	6.24	355.56	4727.33	445.05	-28.33	445.94	1.02	-0.98	-2.22	
4846.00	6.77	355.29	4819.73	455.56	-29.17	456.48	0.57	0.57	-0.29	
4940.00	6.24	355.82	4913.12	466.17	-30.00	467.12	0.57	-0.56	0.56	
5034.00	6.24	358.82	5006.57	476.38	-30.47	477.34	0.35	0.00	3.19	
5128.00	6.68	351.78	5099.97	486.89	-31.36	487.89	0.96	0.47	-7.49	
5220.00	6.60	353.01	5191.35	497.44	-32.77	498.51	0.18	-0.09	1.34	
5315.00	6.86	353.80	5285.70	508.50	-34.05	509.63	0.29	0.27	0.83	
5409.00	7.21	355.82	5378.99	519.96	-35.08	521.14	0.46	0.37	2.15	
5503.00	5.45	355.82	5472.42	530.30	-35.84	531.50	1.87	-1.87	0.00	
5595.00	5.98	355.47	5563.96	539.43	-36.53	540.66	0.58	0.58	-0.38	
5689.00	6.60	357.31	5657.39	549.71	-37.18	550.96	0.69	0.66	1.96	
5784.00	7.65	358.46	5751.66	561.48	-37.60	562.74	1.12	1.11	1.21	
5874.00	5.63	0.30	5841.05	571.89	-37.74	573.12	2.26	-2.24	2.04	
5937.00	6.07	1.18	5903.72	578.31	-37.65	579.52	0.71	0.70	1.40	
6031.00	7.74	356.17	5997.04	589.59	-37.98	590.80	1.89	1.78	-5.33	
6125.00	6.86	356.35	6090.27	601.51	-38.76	602.74	0.94	-0.94	0.19	
6218.00	8.71	355.91	6182.41	614.08	-39.61	615.34	1.99	1.99	-0.47	
6343.00	7.02	356.72	6306.23	631.15	-40.72	632.45	1.35	-1.35	0.65	
6406.00	7.03	356.85	6368.76	638.84	-41.16	640.15	0.03	0.02	0.21	
6500.00	8.74	349.86	6461.87	651.62	-42.73	653.00	2.08	1.82	-7.44	
6592.00	8.29	351.71	6552.85	665.06	-44.92	666.57	0.57	-0.49	2.01	