

"AS DRILLED"

DISTRICT I
1625 N. Fench Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

Form C-102

Revised October 12, 2005

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34275	² Pool Code 02170	³ Pool Name Angel Peak Gallup
⁴ Property Code 22715	⁵ Property Name JACK FROST B	⁶ Well Number 1F
⁷ GRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6165

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
M	27	27-N	10-W		775	SOUTH	380	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
N	27	27-N	10-W		1020	SOUTH	2118	WEST	SAN JUAN

¹² Dedicated Acres 320 AC SW 1/4 2022	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

AS-DRILLED "B.H.L." FOOTAGES ARE
PROVIDED BY XTO ENERGY INC.
CLIENT

BOTTOM HOLE LOCATION
LAT: 36.54177° N. (NAD 83)
LONG: 107.88476° W. (NAD 83)
LAT: 36°32'30.34" N. (NAD 27)
LONG: 107°53'02.92" W. (NAD 27)

SURFACE LOCATION
LAT: 36.54111° N. (NAD 83)
LONG: 107.89066° W. (NAD 83)
LAT: 36°32'28.0" N. (NAD 27)
LONG: 107°53'24.1" W. (NAD 27)

CALC. CORNER

WITNESS COR.
FD. 2 1/2" BC.
1913 G.L.O.
25' SOUTH

00°26'50" W
2617.34'

SEC. CORNER
FD. 2 1/2" BC.
1913 G.L.O.

N 89°56'55" E
5283.56'

SEC. CORNER
FD. 2 1/2" BC.
1913 G.L.O.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Dolena C Johnson Date 08-06-08
Printed Name Dolena C Johnson

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUL 10 2008
Date of Survey
Signature and Seal of Professional Surveyor:

8894
05-08
PROFESSIONAL LAND SURVEYOR
8894
Certificate Number



JACK FROST B#1F
SAN JUAN CO., NEW MEXICO



Weatherford

RCVD AUG 13 '08

OIL CONS. DIV.

DIST. 3

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	81.94	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	81.94	800.00	0.00	0.00	0.00	0.00	0.00	
3	1368.63	17.06	81.94	1360.27	11.79	83.20	3.00	81.94	44.61	
4	6584.86	17.06	81.94	6347.00	226.43	1598.28	0.00	0.00	857.07	T2

WELL DETAILS

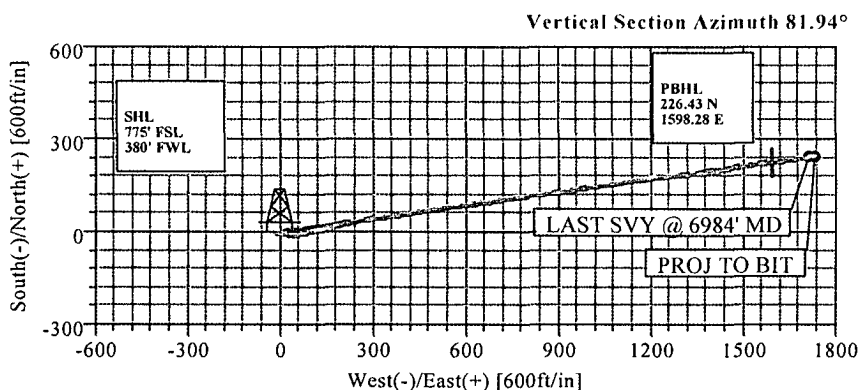
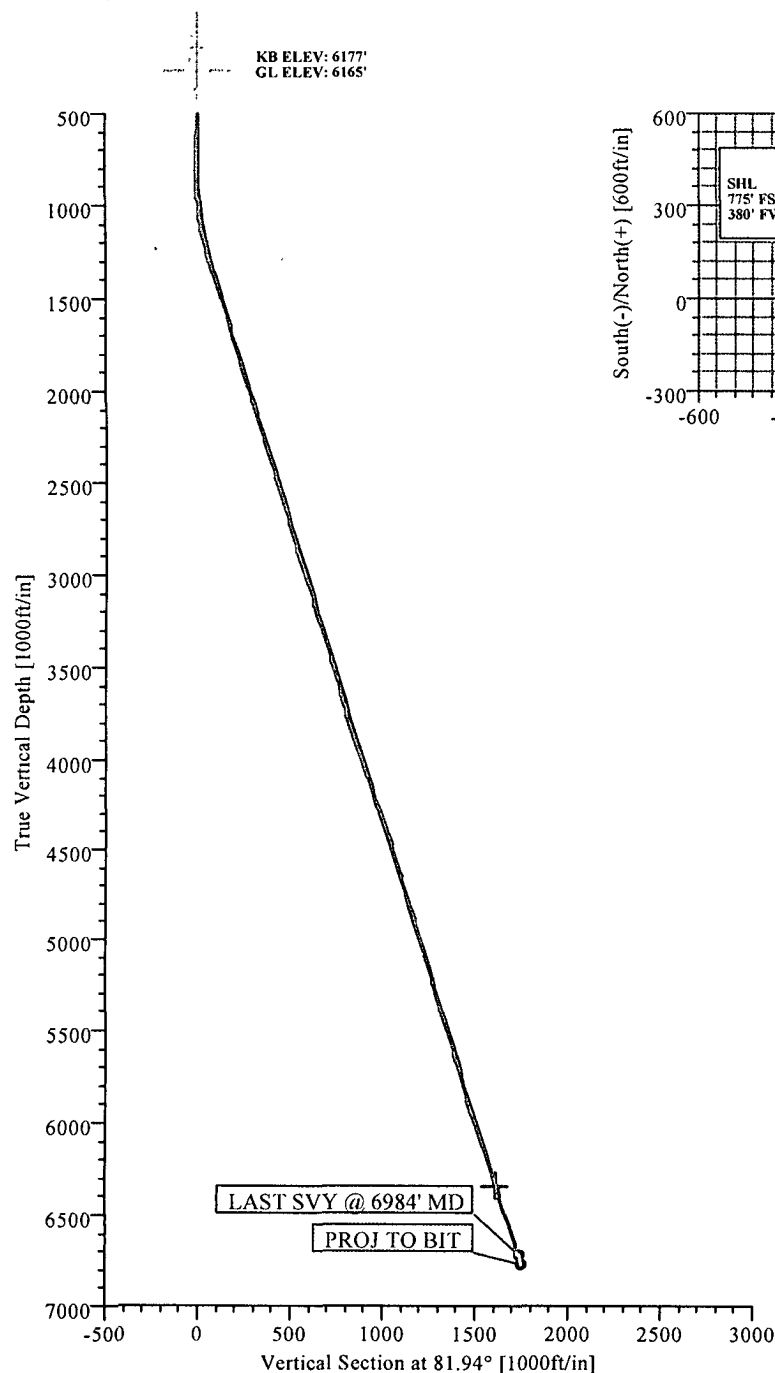
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#1F	0.00	0.00	2016277.21	2706257.17	36°32'27.960N	107°53'26.376W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
T2	6347.00	226.43	1598.28	2016502.69	2707855.58	Point

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	905.00	905.07	Ojo Alamo SS
2	1033.00	1033.36	Kirtland Shale
3	1439.00	1455.87	Fruitland Formation
4	1881.00	1917.01	Lower Fruitland Coal
5	1896.00	1932.63	Pictured Cliffs SS
6	2091.00	2136.34	Lewis Shale
7	2806.00	2882.39	Chacra SS
8	3503.00	3612.79	Cliffhouse SS
9	3548.00	3659.58	Menefee
10	4319.00	4470.92	Point Lookout SS
11	4599.00	4764.12	Mancos Shale
12	5423.00	5622.61	Gallup
13	6131.00	6365.02	Greenhorn
14	6187.00	6424.16	Graneros
15	6347.00	6592.19	Dakota 1
16	6376.00	6622.58	Dakota 2
17	6432.00	6681.25	Dakota 3
18	6481.00	6732.70	Dakota 4
19	6530.00	6784.06	Dakota 5
20	6566.00	6821.82	Dakota 6
21	6607.00	6864.70	Burro Canyon
22	6651.00	6910.71	Morrison



LEGEND

#1F, 1, Plan #2
WFT SVY

FIELD DETAILS

San Juan, NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Western Zone
Magnetic Model: bggm2007

System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

Jack Frost B #1F
775' FSL 380' FWL of SEC 27, T-27-N, R-10-W

Site Centre Latitude: 36°32'27.960N
Longitude: 107°53'26.376W

Ground Level: 6165.00
Positional Uncertainty: 0.00
Convergence: -0.03



Azimuths to True North
Magnetic North. 10.37°

Magnetic Field
Strength 50970nT
Dip Angle: 63.36°
Date 3/26/2008
Model: bggm2007

TOTAL CORRECTION TO TRUE NORTH 10.37°

Survey: WFT SVY (#1F/1)

Created By: Lindsey Maddux

Date: 4/23/2008



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: XTO Energy	Date: 4/23/2008	Time: 15:20:37	Page: 1
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Site: Jack Frost B #1F, True North		
Site: Jack Frost B #1F	Vertical (TVD) Reference: SITE 6177.0		
Well: #1F	Section (VS) Reference: Well (0.00N,0.00E,81.94Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: San Juan, NM (NAD 83)**Map System:** US State Plane Coordinate System 1983**Geo Datum:** GRS 1980**Sys Datum:** Mean Sea Level**Map Zone:**

New Mexico, Western Zone

Coordinate System:

Site Centre

Geomagnetic Model:

bggm2007

Site: Jack Frost B #1F

775' FSL 380' FWL of SEC 27, T-27-N, R-10-W

Site Position:	Northing: 2016277.21 ft	Latitude: 36 32 27.960 N
From: Geographic	Easting: 2706257.17 ft	Longitude: 107 53 26.376 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6165.00 ft		Grid Convergence: -0.03 deg

Well: #1F**Slot Name:**

Well Position: +N/-S 0.00 ft	Northing: 2016277.21 ft	Latitude: 36 32 27.960 N
+E/-W 0.00 ft	Easting: 2706257.17 ft	Longitude: 107 53 26.376 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6177.00 ft	Drilled From: Surface
Magnetic Data: 3/26/2008		Tie-on Depth: 0.00 ft
Field Strength: 50970 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 10.37 deg
ft	ft	Mag Dip Angle: 63.36 deg
0.00	0.00	+E/-W Direction
		deg
		0.00 81.94

Survey: WFT SVY**Start Date:** 4/11/2008**Company:** Weatherford International, Inc**Engineer:** Lindsey Maddux**Tool:** MWD;MWD - Standard**Tied-to:** From Surface**Survey:** WFT SVY

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	MWD
360.01	0.69	227.62	360.00	-1.46	-1.60	-1.79	0.19	0.19	0.00	8 5/8"
391.00	0.75	227.62	390.99	-1.72	-1.89	-2.11	0.19	0.19	0.00	MWD
451.00	0.88	232.87	450.98	-2.27	-2.55	-2.84	0.25	0.22	8.75	MWD
511.00	0.94	238.25	510.98	-2.80	-3.33	-3.69	0.17	0.10	8.97	MWD
571.00	0.94	239.25	570.97	-3.32	-4.18	-4.60	0.03	0.00	1.67	MWD
631.00	0.63	253.37	630.96	-3.66	-4.91	-5.38	0.61	-0.52	23.53	MWD
797.00	1.00	249.12	796.94	-4.44	-7.14	-7.69	0.23	0.22	-2.56	MWD
828.00	0.63	218.62	827.94	-4.67	-7.50	-8.08	1.80	-1.19	-98.39	MWD
860.00	0.56	136.87	859.94	-4.92	-7.50	-8.12	2.44	-0.22	-255.47	MWD
891.00	1.44	117.87	890.94	-5.21	-7.06	-7.72	3.00	2.84	-61.29	MWD
923.00	2.19	102.75	922.92	-5.54	-6.10	-6.82	2.76	2.34	-47.25	MWD
954.00	3.06	98.00	953.89	-5.78	-4.71	-5.47	2.89	2.81	-15.32	MWD
985.00	4.19	103.25	984.82	-6.16	-2.79	-3.62	3.80	3.65	16.94	MWD
1016.00	5.13	101.87	1015.72	-6.70	-0.33	-1.26	3.05	3.03	-4.45	MWD
1047.00	6.06	98.75	1046.57	-7.23	2.65	1.61	3.16	3.00	-10.06	MWD
1078.00	7.50	94.87	1077.36	-7.66	6.28	5.14	4.87	4.65	-12.52	MWD
1109.00	9.44	95.50	1108.02	-8.07	10.83	9.59	6.27	6.26	2.03	MWD
1140.00	11.00	95.75	1138.52	-8.61	16.30	14.93	5.03	5.03	0.81	MWD
1171.00	12.69	95.87	1168.86	-9.26	22.63	21.11	5.45	5.45	0.39	MWD
1202.00	14.56	95.37	1198.99	-9.97	29.90	28.21	6.04	6.03	-1.61	MWD
1234.00	16.75	91.37	1229.80	-10.46	38.51	36.67	7.63	6.84	-12.50	MWD
1266.00	18.06	89.00	1260.33	-10.48	48.08	46.14	4.65	4.09	-7.41	MWD
1298.00	18.94	85.12	1290.68	-9.95	58.22	56.25	4.73	2.75	-12.12	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: XTO Energy
Field: San Juan, NM (NAD 83)
Site: Jack Frost B #1F
Well: #1F
Wellpath: 1

Date: 4/23/2008 Time: 15:20:37 Page: 2
Co-ordinate(NE) Reference: Site: Jack Frost B #1F, True North
Vertical (TVD) Reference: SITE 6177.0
Section (VS) Reference: Well (0.00N,0.00E,81.94Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

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
1329.00	19.94	79.50	1319.92	-8.56	68.43	66.55	6.84	3.23	-18.13	MWD
1360.00	20.44	75.12	1349.01	-6.21	78.86	77.21	5.13	1.61	-14.13	MWD
1391.00	20.81	72.87	1378.03	-3.19	89.35	88.02	2.82	1.19	-7.26	MWD
1422.00	20.19	74.50	1407.06	-0.14	99.77	98.77	2.72	-2.00	5.26	MWD
1453.00	18.81	77.62	1436.29	2.36	109.81	109.05	5.58	-4.45	10.06	MWD
1484.00	17.38	78.50	1465.75	4.35	119.23	118.66	4.70	-4.61	2.84	MWD
1515.00	17.06	79.12	1495.36	6.14	128.23	127.82	1.19	-1.03	2.00	MWD
1546.00	16.88	78.25	1525.01	7.91	137.10	136.86	1.00	-0.58	-2.81	MWD
1578.00	16.69	78.75	1555.65	9.75	146.16	146.08	0.75	-0.59	1.56	MWD
1609.00	16.38	77.62	1585.37	11.56	154.79	154.88	1.44	-1.00	-3.65	MWD
1640.00	16.19	76.87	1615.12	13.48	163.27	163.55	0.91	-0.61	-2.42	MWD
1671.00	16.31	77.62	1644.89	15.39	171.73	172.19	0.78	0.39	2.42	MWD
1703.00	16.38	77.12	1675.59	17.36	180.52	181.17	0.49	0.22	-1.56	MWD
1734.00	16.38	77.00	1705.33	19.32	189.04	189.88	0.11	0.00	-0.39	MWD
1765.00	16.31	76.75	1735.08	21.30	197.54	198.57	0.32	-0.23	-0.81	MWD
1796.00	16.19	75.37	1764.84	23.39	205.95	207.20	1.30	-0.39	-4.45	MWD
1827.00	16.25	76.12	1794.61	25.52	214.35	215.81	0.70	0.19	2.42	MWD
1859.00	16.31	74.37	1825.33	27.81	223.02	224.72	1.54	0.19	-5.47	MWD
1890.00	16.38	75.00	1855.07	30.11	231.43	233.37	0.61	0.23	2.03	MWD
1921.00	16.19	78.75	1884.83	32.08	239.90	242.02	3.45	-0.61	12.10	MWD
1952.00	16.31	81.25	1914.59	33.59	248.44	250.69	2.29	0.39	8.06	MWD
1983.00	16.56	82.00	1944.33	34.87	257.11	259.46	1.06	0.81	2.42	MWD
2014.00	16.75	83.12	1974.03	36.02	265.92	268.35	1.20	0.61	3.61	MWD
2046.00	16.69	83.37	2004.67	37.10	275.07	277.55	0.29	-0.19	0.78	MWD
2077.00	16.81	82.12	2034.36	38.23	283.93	286.48	1.22	0.39	-4.03	MWD
2108.00	17.44	81.75	2063.98	39.51	292.97	295.61	2.06	2.03	-1.19	MWD
2139.00	17.75	82.00	2093.53	40.83	302.24	304.98	1.03	1.00	0.81	MWD
2170.00	17.63	81.75	2123.07	42.16	311.57	314.40	0.46	-0.39	-0.81	MWD
2201.00	17.25	80.50	2152.64	43.60	320.75	323.69	1.72	-1.23	-4.03	MWD
2231.00	16.56	80.00	2181.34	45.07	329.34	332.41	2.35	-2.30	-1.67	MWD
2263.00	16.44	80.50	2212.03	46.61	338.30	341.50	0.58	-0.37	1.56	MWD
2294.00	15.94	80.87	2241.80	48.01	346.83	350.14	1.65	-1.61	1.19	MWD
2326.00	16.06	82.50	2272.56	49.29	355.56	358.96	1.45	0.37	5.09	MWD
2357.00	16.25	82.12	2302.33	50.44	364.11	367.58	0.70	0.61	-1.23	MWD
2388.00	16.06	82.50	2332.11	51.60	372.65	376.21	0.70	-0.61	1.23	MWD
2419.00	16.69	83.37	2361.85	52.67	381.33	384.94	2.18	2.03	2.81	MWD
2450.00	16.56	82.25	2391.56	53.78	390.13	393.81	1.12	-0.42	-3.61	MWD
2481.00	17.31	80.37	2421.21	55.15	399.05	402.84	3.00	2.42	-6.06	MWD
2512.00	17.25	79.87	2450.81	56.73	408.12	412.04	0.52	-0.19	-1.61	MWD
2544.00	17.44	79.37	2481.36	58.45	417.51	421.58	0.75	0.59	-1.56	MWD
2576.00	17.00	79.00	2511.92	60.22	426.81	431.04	1.42	-1.37	-1.16	MWD
2608.00	17.13	78.12	2542.51	62.09	436.01	440.41	0.90	0.41	-2.75	MWD
2639.00	16.44	79.00	2572.19	63.86	444.79	449.35	2.37	-2.23	2.84	MWD
2670.00	16.56	78.87	2601.92	65.55	453.43	458.14	0.41	0.39	-0.42	MWD
2701.00	16.38	79.50	2631.65	67.20	462.06	466.92	0.82	-0.58	2.03	MWD
2733.00	16.25	79.50	2662.36	68.84	470.90	475.90	0.41	-0.41	0.00	MWD
2764.00	16.31	79.37	2692.11	70.43	479.44	484.58	0.23	0.19	-0.42	MWD
2795.00	15.88	78.12	2721.90	72.11	487.87	493.16	1.78	-1.39	-4.03	MWD
2826.00	15.63	78.62	2751.73	73.81	496.12	501.56	0.92	-0.81	1.61	MWD
2857.00	15.88	78.25	2781.57	75.49	504.36	509.97	0.87	0.81	-1.19	MWD
2887.00	15.75	82.00	2810.43	76.90	512.41	518.13	3.43	-0.43	12.50	MWD
2919.00	16.19	82.00	2841.20	78.12	521.13	526.94	1.37	1.37	0.00	MWD
2950.00	16.50	82.87	2870.95	79.27	529.78	535.66	1.27	1.00	2.81	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: XTO Energy
Field: San Juan, NM (NAD 83)
Site: Jack Frost B #1F
Well: #1F
Wellpath: 1

Date: 4/23/2008 Time: 15:20:37 Page: 3
Co-ordinate(NE) Reference: Site: Jack Frost B #1F, True North
Vertical (TVD) Reference: SITE 6177.0
Section (VS) Reference: Well (0.00N,0.00E,81.94Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

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
2980.00	16.94	83.25	2899.68	80.31	538.35	544.29	1.51	1.47	1.27	MWD
3011.00	17.28	85.37	2929.31	81.21	547.42	553.40	2.29	1.10	6.84	MWD
3042.00	17.38	84.00	2958.90	82.07	556.61	562.62	1.36	0.32	-4.42	MWD
3072.00	17.50	84.12	2987.52	83.00	565.56	571.61	0.42	0.40	0.40	MWD
3104.00	17.50	84.25	3018.04	83.98	575.13	581.22	0.12	0.00	0.41	MWD
3136.00	17.56	84.50	3048.55	84.92	584.72	590.85	0.30	0.19	0.78	MWD
3167.00	17.75	84.00	3078.09	85.86	594.08	600.25	0.78	0.61	-1.61	MWD
3198.00	18.25	84.87	3107.58	86.79	603.61	609.82	1.83	1.61	2.81	MWD
3230.00	18.38	83.37	3137.95	87.82	613.61	619.87	1.53	0.41	-4.69	MWD
3261.00	18.25	83.87	3167.38	88.90	623.29	629.60	0.66	-0.42	1.61	MWD
3292.00	18.38	84.62	3196.81	89.88	632.99	639.34	0.87	0.42	2.42	MWD
3323.00	18.56	84.00	3226.22	90.85	642.76	649.15	0.86	0.58	-2.00	MWD
3354.00	17.81	83.25	3255.67	91.93	652.37	658.82	2.53	-2.42	-2.42	MWD
3385.00	17.56	81.87	3285.20	93.15	661.71	668.23	1.57	-0.81	-4.45	MWD
3416.00	17.75	82.12	3314.74	94.46	671.02	677.64	0.66	0.61	0.81	MWD
3447.00	17.69	82.12	3344.27	95.75	680.37	687.07	0.19	-0.19	0.00	MWD
3478.00	16.88	79.50	3373.87	97.21	689.46	696.28	3.62	-2.61	-8.45	MWD
3510.00	16.69	78.75	3404.51	98.96	698.53	705.51	0.90	-0.59	-2.34	MWD
3541.00	16.69	78.87	3434.20	100.69	707.27	714.40	0.11	0.00	0.39	MWD
3573.00	16.69	78.25	3464.86	102.51	716.28	723.57	0.56	0.00	-1.94	MWD
3604.00	16.44	80.00	3494.57	104.18	724.95	732.40	1.80	-0.81	5.65	MWD
3633.00	15.94	79.37	3522.42	105.62	732.91	740.48	1.83	-1.72	-2.17	MWD
3665.00	15.56	78.50	3553.22	107.29	741.43	749.15	1.40	-1.19	-2.72	MWD
3696.00	15.50	79.87	3583.09	108.85	749.59	757.44	1.20	-0.19	4.42	MWD
3727.00	15.44	81.20	3612.96	110.21	757.74	765.71	1.16	-0.19	4.29	MWD
3759.00	15.19	83.00	3643.83	111.37	766.11	774.16	1.68	-0.78	5.62	MWD
3790.00	14.81	88.37	3673.77	111.98	774.10	782.16	4.65	-1.23	17.32	MWD
3821.00	15.13	83.12	3703.72	112.57	782.08	790.14	4.49	1.03	-16.94	MWD
3852.00	15.75	81.75	3733.60	113.66	790.26	798.39	2.32	2.00	-4.42	MWD
3883.00	16.13	81.37	3763.41	114.91	798.68	806.90	1.27	1.23	-1.23	MWD
3914.00	16.81	82.25	3793.14	116.16	807.38	815.69	2.34	2.19	2.84	MWD
3946.00	16.88	81.00	3823.77	117.51	816.56	824.97	1.15	0.22	-3.91	MWD
3977.00	16.25	82.37	3853.48	118.79	825.30	833.80	2.39	-2.03	4.42	MWD
4009.00	16.81	82.87	3884.16	119.96	834.33	842.91	1.81	1.75	1.56	MWD
4040.00	17.63	84.62	3913.77	120.96	843.45	852.08	3.13	2.65	5.65	MWD
4071.00	17.75	84.62	3943.30	121.84	852.83	861.49	0.39	0.39	0.00	MWD
4102.00	18.69	84.37	3972.75	122.77	862.48	871.17	3.04	3.03	-0.81	MWD
4133.00	19.00	84.50	4002.08	123.74	872.44	881.17	1.01	1.00	0.42	MWD
4164.00	19.50	84.00	4031.35	124.77	882.61	891.39	1.70	1.61	-1.61	MWD
4195.00	20.06	83.12	4060.52	125.95	893.04	901.87	2.05	1.81	-2.84	MWD
4227.00	20.06	81.62	4090.58	127.40	903.91	912.85	1.61	0.00	-4.69	MWD
4258.00	20.44	82.00	4119.66	128.93	914.53	923.58	1.30	1.23	1.23	MWD
4290.00	20.63	81.62	4149.63	130.53	925.64	934.80	0.73	0.59	-1.19	MWD
4321.00	20.81	82.62	4178.63	132.03	936.51	945.77	1.28	0.58	3.23	MWD
4352.00	21.00	81.75	4207.59	133.54	947.47	956.83	1.17	0.61	-2.81	MWD
4383.00	21.13	82.50	4236.51	135.07	958.50	967.97	0.97	0.42	2.42	MWD
4413.00	21.13	81.37	4264.50	136.58	969.21	978.79	1.36	0.00	-3.77	MWD
4444.00	19.44	81.37	4293.57	138.20	979.84	989.53	5.45	-5.45	0.00	MWD
4475.00	18.88	81.25	4322.86	139.73	989.89	999.71	1.81	-1.81	-0.39	MWD
4506.00	18.25	80.00	4352.24	141.34	999.63	1009.57	2.40	-2.03	-4.03	MWD
4538.00	18.50	79.50	4382.61	143.13	1009.56	1019.65	0.92	0.78	-1.56	MWD
4569.00	17.88	80.50	4412.06	144.82	1019.09	1029.33	2.24	-2.00	3.23	MWD
4600.00	16.69	80.25	4441.66	146.35	1028.17	1038.53	3.85	-3.84	-0.81	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: XTO Energy
Field: San Juan, NM (NAD 83)
Site: Jack Frost B #1F
Well: #1F
Wellpath: 1

Date: 4/23/2008 Time: 15:20:37 Page: 4
Co-ordinate(NE) Reference: Site: Jack Frost B #1F, True North
Vertical (TVD) Reference: SITE 6177.0
Section (VS) Reference: Well (0.00N,0.00E,81.94Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

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
4631.00	16.50	80.00	4471.37	147.87	1036.89	1047.38	0.65	-0.61	-0.81	MWD
4662.00	16.38	81.37	4501.10	149.29	1045.55	1056.15	1.31	-0.39	4.42	MWD
4693.00	16.69	81.50	4530.82	150.61	1054.27	1064.97	1.01	1.00	0.42	MWD
4724.00	16.56	81.75	4560.53	151.90	1063.05	1073.84	0.48	-0.42	0.81	MWD
4756.00	16.44	80.75	4591.21	153.28	1072.03	1082.93	0.96	-0.37	-3.12	MWD
4787.00	16.31	81.87	4620.95	154.60	1080.67	1091.67	1.10	-0.42	3.61	MWD
4818.00	16.44	81.00	4650.69	155.90	1089.31	1100.41	0.90	0.42	-2.81	MWD
4849.00	16.63	81.00	4680.41	157.28	1098.02	1109.23	0.61	0.61	0.00	MWD
4881.00	17.00	80.75	4711.04	158.75	1107.16	1118.49	1.18	1.16	-0.78	MWD
4912.00	17.38	81.37	4740.66	160.18	1116.21	1127.65	1.36	1.23	2.00	MWD
4943.00	17.00	81.00	4770.27	161.58	1125.27	1136.81	1.28	-1.23	-1.19	MWD
4974.00	17.13	81.50	4799.91	162.96	1134.26	1145.90	0.63	0.42	1.61	MWD
5005.00	16.88	80.62	4829.55	164.37	1143.21	1154.97	1.16	-0.81	-2.84	MWD
5036.00	17.00	81.25	4859.21	165.79	1152.13	1164.00	0.71	0.39	2.03	MWD
5067.00	17.13	81.62	4888.84	167.15	1161.13	1173.10	0.55	0.42	1.19	MWD
5098.00	16.81	83.00	4918.49	168.36	1170.10	1182.14	1.66	-1.03	4.45	MWD
5129.00	16.69	82.12	4948.18	169.52	1178.95	1191.08	0.91	-0.39	-2.84	MWD
5161.00	16.38	82.50	4978.85	170.74	1187.98	1200.18	1.03	-0.97	1.19	MWD
5192.00	16.19	84.50	5008.61	171.72	1196.62	1208.87	1.91	-0.61	6.45	MWD
5223.00	15.75	83.25	5038.41	172.63	1205.10	1217.40	1.80	-1.42	-4.03	MWD
5254.00	15.31	83.87	5068.28	173.56	1213.34	1225.69	1.52	-1.42	2.00	MWD
5285.00	15.06	84.50	5098.20	174.38	1221.42	1233.81	0.97	-0.81	2.03	MWD
5315.00	14.88	83.50	5127.18	175.19	1229.13	1241.55	1.05	-0.60	-3.33	MWD
5345.00	15.25	83.62	5156.15	176.07	1236.88	1249.34	1.24	1.23	0.40	MWD
5376.00	15.38	83.50	5186.05	176.99	1245.01	1257.53	0.43	0.42	-0.39	MWD
5407.00	15.38	84.62	5215.94	177.84	1253.19	1265.74	0.96	0.00	3.61	MWD
5438.00	15.88	84.62	5245.79	178.62	1261.50	1274.09	1.61	1.61	0.00	MWD
5469.00	16.19	85.25	5275.59	179.38	1270.03	1282.64	1.15	1.00	2.03	MWD
5500.00	16.44	85.75	5305.34	180.06	1278.72	1291.33	0.93	0.81	1.61	MWD
5532.00	16.38	85.75	5336.04	180.73	1287.73	1300.35	0.19	-0.19	0.00	MWD
5562.00	16.13	85.00	5364.84	181.41	1296.10	1308.73	1.09	-0.83	-2.50	MWD
5593.00	16.44	84.37	5394.59	182.21	1304.76	1317.42	1.15	1.00	-2.03	MWD
5625.00	16.38	84.87	5425.29	183.06	1313.76	1326.45	0.48	-0.19	1.56	MWD
5656.00	16.94	84.00	5454.99	183.92	1322.60	1335.32	1.98	1.81	-2.81	MWD
5687.00	16.94	83.37	5484.64	184.92	1331.58	1344.35	0.59	0.00	-2.03	MWD
5718.00	17.44	83.75	5514.26	185.94	1340.68	1353.51	1.65	1.61	1.23	MWD
5750.00	16.94	84.50	5544.83	186.91	1350.09	1362.96	1.71	-1.56	2.34	MWD
5781.00	16.50	84.12	5574.52	187.80	1358.97	1371.87	1.46	-1.42	-1.23	MWD
5812.00	16.69	83.00	5604.23	188.79	1367.76	1380.72	1.20	0.61	-3.61	MWD
5842.00	16.38	82.50	5632.99	189.87	1376.23	1389.26	1.14	-1.03	-1.67	MWD
5874.00	15.88	82.50	5663.73	191.03	1385.05	1398.15	1.56	-1.56	0.00	MWD
5904.00	16.00	82.25	5692.57	192.12	1393.21	1406.39	0.46	0.40	-0.83	MWD
5935.00	16.25	83.75	5722.35	193.17	1401.76	1414.99	1.57	0.81	4.84	MWD
5966.00	16.31	84.12	5752.11	194.09	1410.40	1423.68	0.39	0.19	1.19	MWD
5998.00	16.50	82.87	5782.81	195.11	1419.38	1432.71	1.25	0.59	-3.91	MWD
6011.00	16.31	82.37	5795.28	195.58	1423.02	1436.38	1.82	-1.46	-3.85	MWD
6043.00	16.56	79.37	5825.97	197.02	1431.95	1445.43	2.76	0.78	-9.37	MWD
6073.00	16.75	78.87	5854.71	198.64	1440.40	1454.02	0.79	0.63	-1.67	MWD
6104.00	17.50	78.12	5884.34	200.46	1449.34	1463.13	2.52	2.42	-2.42	MWD
6136.00	18.25	78.75	5914.79	202.43	1458.97	1472.94	2.42	2.34	1.97	MWD
6167.00	18.44	77.37	5944.22	204.45	1468.51	1482.67	1.53	0.61	-4.45	MWD
6198.00	18.56	78.12	5973.62	206.54	1478.12	1492.48	0.86	0.39	2.42	MWD
6229.00	19.44	79.75	6002.93	208.47	1488.03	1502.56	3.31	2.84	5.26	MWD
6260.00	19.50	82.00	6032.15	210.11	1498.23	1512.89	2.43	0.19	7.26	MWD

Bottom
C/LP



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: XTO Energy
Field: San Juan, NM (NAD 83)
Site: Jack Frost B #1F
Well: #1F
Wellpath: 1

Date: 4/23/2008 Time: 15:20:37 Page: 5
Co-ordinate(NE) Reference: Site: Jack Frost B #1F, True North
Vertical (TVD) Reference: SITE 6177.0
Section (VS) Reference: Well (0.00N,0.00E,81.94Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

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
6292.00	19.75	81.50	6062.30	211.65	1508.86	1523.63	0.94	0.78	-1.56	MWD
6323.00	20.00	81.62	6091.45	213.20	1519.29	1534.17	0.82	0.81	0.39	MWD
6354.00	19.63	82.62	6120.61	214.64	1529.70	1544.68	1.62	-1.19	3.23	MWD
6385.00	18.75	81.87	6149.89	216.02	1539.79	1554.87	2.95	-2.84	-2.42	MWD
6416.00	18.56	82.00	6179.26	217.41	1549.61	1564.79	0.63	-0.61	0.42	MWD
6447.00	17.81	81.00	6208.71	218.83	1559.18	1574.46	2.62	-2.42	-3.23	MWD
6478.00	18.19	81.50	6238.20	220.29	1568.65	1584.04	1.32	1.23	1.61	MWD
6509.00	17.69	81.50	6267.69	221.70	1578.09	1593.59	1.61	-1.61	0.00	MWD
6540.00	17.56	82.12	6297.23	223.04	1587.38	1602.97	0.74	-0.42	2.00	MWD
6572.00	17.56	82.00	6327.74	224.37	1596.94	1612.63	0.11	0.00	-0.37	MWD
6603.00	17.44	82.25	6357.31	225.65	1606.18	1621.95	0.46	-0.39	0.81	MWD
6634.00	17.13	81.87	6386.91	226.92	1615.30	1631.16	1.06	-1.00	-1.23	MWD
6665.00	17.44	82.87	6416.51	228.15	1624.43	1640.37	1.39	1.00	3.23	MWD
6696.00	17.81	83.00	6446.05	229.30	1633.74	1649.76	1.20	1.19	0.42	MWD
6728.00	17.81	82.75	6476.52	230.51	1643.46	1659.54	0.24	0.00	-0.78	MWD
6759.00	17.19	82.75	6506.08	231.69	1652.70	1668.86	2.00	-2.00	0.00	MWD
6790.00	17.63	82.50	6535.66	232.88	1661.90	1678.14	1.44	1.42	-0.81	MWD
6821.00	17.56	82.87	6565.21	234.07	1671.20	1687.51	0.43	-0.23	1.19	MWD
6852.00	16.69	81.87	6594.84	235.28	1680.24	1696.64	2.96	-2.81	-3.23	MWD
6882.00	17.13	79.50	6623.54	236.70	1688.85	1705.36	2.73	1.47	-7.90	MWD
6913.00	16.81	80.37	6653.19	238.28	1697.76	1714.40	1.32	-1.03	2.81	MWD
6945.00	16.50	80.50	6683.85	239.80	1706.81	1723.57	0.98	-0.97	0.41	MWD
6977.00	16.63	79.12	6714.52	241.42	1715.78	1732.68	1.29	0.41	-4.31	MWD
6984.00	16.75	79.12	6721.23	241.80	1717.76	1734.69	1.71	1.71	0.00	LAST SVY @ 6984' MD
7035.00	16.75	79.12	6770.06	244.57	1732.19	1749.37	0.00	0.00	0.00	PROJ TO BIT

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
360.01	360.00	0.000	0.000	8 5/8"
	6839.50	5.500	6.000	5 1/2"

Annotation

MD ft	TVD ft	
6984.00	6721.23	LAST SVY @ 6984' MD
7035.00	6770.06	PROJ TO BIT