

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

DISTRICT II
1301 W. Grand Ave., 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 87505

"AS Drilled"

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34903	² Pool Code 71624	³ Pool Name Basin Fruitland Coal
⁴ Property Code 22812	⁵ Property Name SHIPP GAS COM	⁶ Well Number 21H
⁷ OGRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 5778

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
0	1	27-N	13-W		770	SOUTH	1975	EAST	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
B	1	27-N	13-W		734	NORTH	1945	EAST	SAN JUAN

¹² Dedicated Acres 320	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

¹⁶ LOT 4 39.95	FD. 2 1/2" BC. 1911 G.L.O.	N 89°58'08" W 2640.97' (M)	FD. 3 1/4" BC. 1911 G.L.O.	¹⁷ LOT 1 39.99
LOT 3 39.96		734' B.H.L.		1945'
		LOT 2 39.98		
BOTTOM HOLE: LAT: 36.60951° N. (NAD 83) LONG: 108.16820° W. (NAD 83) LAT: 36°36'34.2" N. (NAD 27) LONG: 108°10'03.3" W. (NAD 27)				N 00°06'12" W 2641.42' (M)
SURFACE: LAT: 36.59913° N. (NAD 83) LONG: 108.16828° W. (NAD 83) LAT: 36°35'56.8" N. (NAD 27) LONG: 108°10'03.5" W. (NAD 27)				
AS-DRILLED B.H.L. B.H.L. FOOTAGES ARE AS-DRILLED AND PROVIDED BY XTO ENERGY INC. CLIENT				
	FD. 2 1/2" BC. 1911 G.L.O.	N 89°56'55" W 2643.39' (M)		1975'
		770'		N 00°01'53" W 2640.87' (M)

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: Wanett McCauley Date: 11-15-10

Printed Name: Wanett McCauley

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 knowledge and belief.

OCTOBER 7, 2010
Date of Survey
Signature and Seal of Professional Surveyor
ROY A. RUSH
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8894

Certificate Number



Shipp Gas Com #21H San Juan Co., New Mexico

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: IGRF2010
System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

Shipp Gas Com #21H
Site Centre Latitude: 36°35'56.868N
Longitude: 108°10'05.908W
Ground Level: 5778.00
Positional Uncertainty: 0.00
Convergence: -0.20

FORMATION TOP DETAILS

No. TVDPath MDPPath Formation
No formation top details fall on the wellpath.

SECTION DETAILS

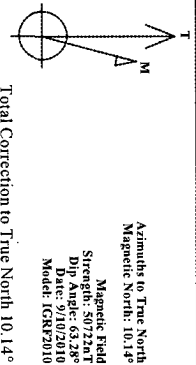
Sec	MD	Inc	Azi	TYD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	
2	327.59	0.00	0.44	327.59	0.00	0.00	0.00	0.00	0.00	
3	1815.09	89.25	0.44	1282.44	0.44	7.27	6.00	0.44	942.43	
4	4684.62	89.25	0.44	1320.00	3811.60	29.40	0.00	0.00	3811.71	PBHL

WELL DETAILS

Name	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
Shipp Gas Com #21H	0.00	0.00	2037568.96	2624778.55	36°35'56.868N	108°10'05.908W	N/A

TARGET DETAILS

Name	TYD	+N/S	+E/W	Latitude	Longitude	Shape
PBHL	1320.00	3811.60	29.40	36°36'34.560N	108°10'05.447W	Point



Total Correction to True North 10.14°

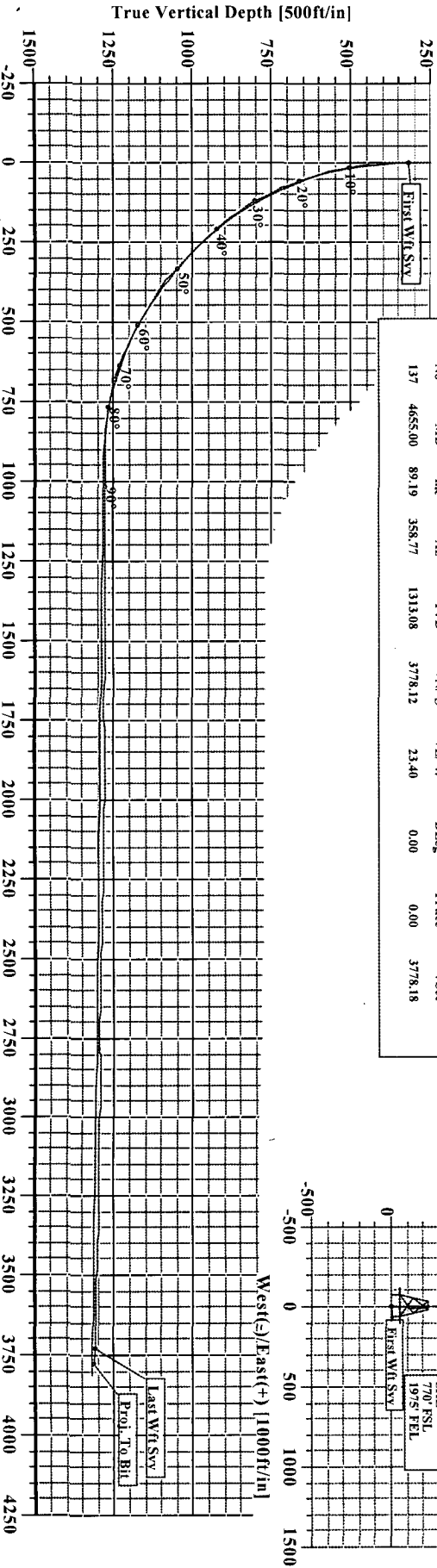
LEGEND
Shipp Gas Com #21H(Horizontal) Plan #1
Well Svy



KB Elev: 5790'
GL Elev: 5778'

Survey: Well Svy (Shipp Gas Com #21H(Horizontal))

No	MD	Inc	Az	TYD	+N/S	+E/W	DLeg	TFace	VSec
137	4685.00	89.19	358.77	1313.08	3778.12	23.40	0.00	0.00	3778.18



Vertical Section at 0.44° [500ft/in]

SECTIONLINE

Proj. To Bit
3778.12N
23.40 E

Last Well Svy

Survey: Well Svy (Shipp Gas Com #21H(Horizontal))

Created By: Russell W. Joyner

Date: 10/17/2010



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 10/1/2010	Time: 07:27:06	Page: 1
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Shipp Gas Com #21H, True North		
Site: Shipp Gas Com #21H	Vertical (TVD) Reference: SITE 5790.0		
Well: Shipp Gas Com #21H	Section (VS) Reference: Well (0.00N,0.00E,0.44Azi)		
Wellpath: Horizontal	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 9/27/2010
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Company: Weatherford International Ltd.	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: From Surface

Field: San Juan, NM (NAD 83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Western Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Shipp Gas Com #21H

Site Position:	Northing: 2037568.96 ft	Latitude: 36 35 56.868 N
From: Geographic	Easting: 2624778.55 ft	Longitude: 108 10 5.808 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 5778.00 ft		Grid Convergence: -0.20 deg

Well: Shipp Gas Com #21H	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 2037568.96 ft
+E/-W 0.00 ft	Easting : 2624778.55 ft
Position Uncertainty: 0.00 ft	Latitude: 36 35 56.868 N
	Longitude: 108 10 5.808 W

Wellpath: Horizontal	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 9/10/2010	Above System Datum: Mean Sea Level
Field Strength: 50722 nT	Declination: 10.14 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.28 deg
ft	+E/-W
	ft
	Direction
	deg
0.00	0.00
0.00	0.00
0.00	0.44

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	35	56.868	108	10	5.808	First Wft Sv
322.00	0.38	34.65	322.00	0.88	0.61	0.88	0.12	36	35	56.877	108	10	5.801	
354.00	0.75	21.02	354.00	1.16	0.74	1.17	1.22	36	35	56.879	108	10	5.799	
386.00	2.13	18.64	385.99	1.92	1.01	1.93	4.32	36	35	56.887	108	10	5.796	
417.00	4.06	13.02	416.94	3.54	1.44	3.55	6.29	36	35	56.903	108	10	5.790	
449.00	6.13	9.14	448.81	6.33	1.97	6.34	6.55	36	35	56.931	108	10	5.784	
480.00	8.19	6.39	479.57	10.16	2.47	10.17	6.73	36	35	56.968	108	10	5.778	
511.00	10.13	3.77	510.17	15.07	2.90	15.09	6.40	36	35	57.017	108	10	5.772	
542.00	12.13	3.26	540.59	21.04	3.26	21.07	6.46	36	35	57.076	108	10	5.768	
573.00	14.13	4.02	570.77	28.07	3.71	28.10	6.48	36	35	57.146	108	10	5.762	
604.00	16.13	3.02	600.70	36.15	4.21	36.18	6.51	36	35	57.225	108	10	5.756	
636.00	18.00	0.77	631.29	45.53	4.51	45.56	6.20	36	35	57.318	108	10	5.753	
668.00	19.81	359.14	661.56	55.90	4.49	55.93	5.89	36	35	57.421	108	10	5.753	
700.00	21.69	0.14	691.48	67.23	4.43	67.26	5.98	36	35	57.533	108	10	5.754	
731.00	23.88	1.14	720.06	79.24	4.56	79.27	7.17	36	35	57.652	108	10	5.752	
762.00	26.00	1.39	748.17	92.30	4.85	92.34	6.85	36	35	57.781	108	10	5.748	
794.00	27.94	2.02	776.69	106.81	5.29	106.85	6.13	36	35	57.924	108	10	5.743	
825.00	30.13	2.26	803.79	121.84	5.85	121.88	7.07	36	35	58.073	108	10	5.736	
856.00	32.44	1.76	830.28	137.93	6.41	137.98	7.50	36	35	58.232	108	10	5.729	
887.00	34.88	1.39	856.08	155.10	6.88	155.15	7.90	36	35	58.402	108	10	5.724	
919.00	37.19	359.64	881.96	173.93	7.05	173.97	7.90	36	35	58.588	108	10	5.722	
950.00	38.94	358.14	906.37	193.03	6.67	193.08	6.38	36	35	58.777	108	10	5.726	
981.00	40.50	357.52	930.21	212.83	5.92	212.87	5.19	36	35	58.973	108	10	5.735	
1012.00	42.15	357.14	953.49	233.28	4.96	233.31	5.38	36	35	59.175	108	10	5.747	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: XTO
Field: San Juan, NM (NAD 83)
Site: Shipp Gas Com #21H
Well: Shipp Gas Com #21H
Wellpath: Horizontal

Date: 10/1/2010 Time: 07:27:06 Page: 2
Co-ordinate(NE) Reference: Well: Shipp Gas Com #21H, True North
Vertical (TVD) Reference: SITE 5790.0
Section (VS) Reference: Well (0.00N,0.00E,0.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
1043.00	44.19	357.27	976.10	254.46	3.93	254.48	6.59	36	35	59.384	108	10	5.760	
1073.00	45.81	357.64	997.31	275.65	2.99	275.66	5.47	36	35	59.594	108	10	5.771	
1104.00	47.75	357.89	1018.54	298.22	2.11	298.23	6.29	36	35	59.817	108	10	5.782	
1135.00	49.19	359.02	1039.09	321.42	1.49	321.42	5.39	36	36	0.046	108	10	5.790	
1165.00	50.56	359.02	1058.42	344.35	1.09	344.35	4.57	36	36	0.273	108	10	5.795	
1196.00	52.19	359.64	1077.77	368.57	0.81	368.57	5.49	36	36	0.513	108	10	5.798	
1226.00	53.44	0.64	1095.91	392.47	0.87	392.47	4.94	36	36	0.749	108	10	5.797	
1257.00	54.94	0.89	1114.04	417.61	1.21	417.60	4.88	36	36	0.998	108	10	5.793	
1288.00	56.75	1.52	1131.45	443.25	1.75	443.25	6.08	36	36	1.251	108	10	5.787	
1319.00	57.94	1.89	1148.17	469.34	2.53	469.35	3.97	36	36	1.509	108	10	5.777	
1350.00	59.19	2.14	1164.34	495.77	3.46	495.79	4.09	36	36	1.771	108	10	5.766	
1381.00	60.81	1.89	1179.84	522.60	4.40	522.62	5.27	36	36	2.036	108	10	5.754	
1412.00	62.81	2.27	1194.48	549.91	5.39	549.93	6.54	36	36	2.306	108	10	5.742	
1443.00	64.88	2.77	1208.15	577.70	6.62	577.74	6.83	36	36	2.581	108	10	5.727	
1473.00	67.31	2.14	1220.30	605.10	7.79	605.15	8.32	36	36	2.852	108	10	5.712	
1504.00	69.63	1.14	1231.68	633.93	8.61	633.97	8.06	36	36	3.137	108	10	5.702	
1535.00	72.50	1.14	1241.74	663.24	9.20	663.29	9.26	36	36	3.427	108	10	5.695	
1565.00	74.75	0.89	1250.20	692.02	9.71	692.07	7.54	36	36	3.711	108	10	5.689	
1596.00	76.75	359.89	1257.83	722.06	9.91	722.12	7.17	36	36	4.008	108	10	5.686	
1626.00	78.88	359.64	1264.16	751.38	9.79	751.44	7.15	36	36	4.298	108	10	5.688	
1657.00	81.06	359.77	1269.56	781.91	9.63	781.96	7.04	36	36	4.600	108	10	5.690	
1687.00	83.50	0.14	1273.59	811.63	9.61	811.68	8.22	36	36	4.894	108	10	5.690	
1718.00	85.50	0.52	1276.56	842.49	9.79	842.54	6.57	36	36	5.199	108	10	5.688	
1749.00	87.44	0.51	1278.47	873.43	10.06	873.48	6.26	36	36	5.505	108	10	5.685	
1792.00	88.85	0.37	1279.86	916.40	10.39	916.45	3.30	36	36	5.930	108	10	5.681	
1857.00	89.25	0.52	1280.94	981.39	10.90	981.44	0.66	36	36	6.573	108	10	5.674	
1889.00	89.88	359.89	1281.18	1013.39	11.01	1013.44	2.78	36	36	6.889	108	10	5.673	
1921.00	90.94	359.89	1280.95	1045.39	10.95	1045.44	3.31	36	36	7.206	108	10	5.674	
1953.00	90.94	0.27	1280.42	1077.38	11.00	1077.44	1.19	36	36	7.522	108	10	5.673	
1985.00	90.06	0.39	1280.15	1109.38	11.18	1109.43	2.78	36	36	7.838	108	10	5.671	
2016.00	89.88	0.77	1280.16	1140.38	11.50	1140.43	1.36	36	36	8.145	108	10	5.667	
2047.00	90.19	1.02	1280.14	1171.38	11.98	1171.43	1.28	36	36	8.451	108	10	5.661	
2079.00	91.13	1.14	1279.77	1203.37	12.58	1203.43	2.96	36	36	8.768	108	10	5.654	
2111.00	91.31	0.89	1279.09	1235.35	13.15	1235.42	0.96	36	36	9.084	108	10	5.647	
2143.00	91.13	1.02	1278.41	1267.34	13.68	1267.41	0.69	36	36	9.400	108	10	5.640	
2175.00	91.19	0.76	1277.76	1299.33	14.18	1299.40	0.83	36	36	9.717	108	10	5.634	
2207.00	91.50	0.64	1277.01	1331.32	14.57	1331.39	1.04	36	36	10.033	108	10	5.629	
2238.00	90.94	1.01	1276.35	1362.31	15.02	1362.39	2.16	36	36	10.340	108	10	5.624	
2271.00	89.75	2.01	1276.15	1395.30	15.89	1395.38	4.71	36	36	10.666	108	10	5.613	
2302.00	88.25	2.01	1276.69	1426.27	16.97	1426.36	4.84	36	36	10.972	108	10	5.600	
2334.00	88.13	2.14	1277.71	1458.24	18.13	1458.33	0.55	36	36	11.288	108	10	5.586	
2366.00	88.13	2.26	1278.75	1490.20	19.36	1490.30	0.37	36	36	11.604	108	10	5.571	
2398.00	88.31	2.64	1279.74	1522.15	20.73	1522.27	1.31	36	36	11.920	108	10	5.554	
2430.00	89.25	2.76	1280.42	1554.11	22.23	1554.23	2.96	36	36	12.236	108	10	5.535	
2462.00	89.62	2.89	1280.74	1586.07	23.81	1586.20	1.23	36	36	12.552	108	10	5.516	
2493.00	89.63	1.64	1280.94	1617.04	25.04	1617.19	4.03	36	36	12.859	108	10	5.501	
2525.00	89.00	359.76	1281.33	1649.04	25.43	1649.18	6.20	36	36	13.175	108	10	5.496	
2556.00	89.06	359.02	1281.85	1680.03	25.10	1680.17	2.39	36	36	13.481	108	10	5.500	
2589.00	90.56	358.52	1281.96	1713.02	24.39	1713.16	4.79	36	36	13.808	108	10	5.509	
2620.00	91.06	358.14	1281.52	1744.00	23.49	1744.13	2.03	36	36	14.114	108	10	5.520	
2652.00	91.31	358.01	1280.86	1775.98	22.41	1776.10	0.88	36	36	14.430	108	10	5.533	
2716.00	90.50	358.02	1279.85	1839.93	20.19	1840.03	1.27	36	36	15.063	108	10	5.560	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: XTO
Field: San Juan, NM (NAD 83)
Site: Shipp Gas Com #21H
Well: Shipp Gas Com #21H
Wellpath: Horizontal

Date: 10/1/2010 Time: 07:27:06 Page: 3
Co-ordinate(NE) Reference: Well: Shipp Gas Com #21H, True North
Vertical (TVD) Reference: SITE 5790.0
Section (VS) Reference: Well (0.00N,0.00E,0.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
2748.00	89.69	359.27	1279.80	1871.92	19.44	1872.02	4.65	36	36	15.379	108	10	5.570	
2779.00	89.81	359.27	1279.93	1902.92	19.04	1903.01	0.39	36	36	15.686	108	10	5.574	
2812.00	89.63	359.64	1280.09	1935.92	18.73	1936.00	1.25	36	36	16.012	108	10	5.578	
2844.00	89.31	1.14	1280.39	1967.91	18.95	1968.00	4.79	36	36	16.328	108	10	5.576	
2876.00	87.75	1.14	1281.21	1999.90	19.58	1999.99	4.87	36	36	16.645	108	10	5.568	
2908.00	87.94	0.77	1282.41	2031.87	20.12	2031.96	1.30	36	36	16.961	108	10	5.561	
2940.00	88.81	0.02	1283.32	2063.85	20.34	2063.95	3.59	36	36	17.277	108	10	5.559	
2972.00	89.19	359.52	1283.88	2095.85	20.21	2095.94	1.96	36	36	17.593	108	10	5.560	
3003.00	89.31	359.14	1284.28	2126.84	19.85	2126.93	1.29	36	36	17.900	108	10	5.565	
3036.00	89.75	358.77	1284.56	2159.84	19.24	2159.92	1.74	36	36	18.226	108	10	5.572	
3067.00	89.31	359.27	1284.81	2190.83	18.71	2190.91	2.15	36	36	18.533	108	10	5.578	
3099.00	89.38	0.27	1285.18	2222.83	18.58	2222.91	3.13	36	36	18.849	108	10	5.580	
3132.00	88.75	0.89	1285.71	2255.82	18.92	2255.90	2.68	36	36	19.175	108	10	5.576	
3164.00	89.13	0.51	1286.31	2287.82	19.31	2287.90	1.68	36	36	19.492	108	10	5.571	
3196.00	88.00	0.89	1287.11	2319.80	19.70	2319.89	3.73	36	36	19.808	108	10	5.566	
3227.00	87.94	0.52	1288.21	2350.78	20.08	2350.87	1.21	36	36	20.114	108	10	5.562	
3259.00	88.44	0.64	1289.22	2382.76	20.41	2382.85	1.61	36	36	20.431	108	10	5.558	
3291.00	88.75	1.14	1290.00	2414.75	20.90	2414.84	1.84	36	36	20.747	108	10	5.552	
3323.00	87.75	1.89	1290.98	2446.72	21.75	2446.82	3.91	36	36	21.063	108	10	5.541	
3355.00	87.81	1.89	1292.22	2478.68	22.80	2478.78	0.19	36	36	21.379	108	10	5.528	
3386.00	88.13	1.77	1293.32	2509.65	23.79	2509.75	1.10	36	36	21.685	108	10	5.516	
3417.00	88.38	1.51	1294.26	2540.62	24.68	2540.73	1.16	36	36	21.992	108	10	5.505	
3448.00	88.56	1.14	1295.09	2571.60	25.39	2571.72	1.33	36	36	22.298	108	10	5.497	
3478.00	88.81	1.01	1295.78	2601.59	25.96	2601.71	0.94	36	36	22.594	108	10	5.490	
3509.00	89.06	0.64	1296.35	2632.58	26.40	2632.70	1.44	36	36	22.901	108	10	5.484	
3540.00	89.44	0.39	1296.76	2663.57	26.68	2663.70	1.47	36	36	23.207	108	10	5.481	
3570.00	89.69	0.26	1296.99	2693.57	26.85	2693.70	0.94	36	36	23.504	108	10	5.479	
3600.00	89.88	359.89	1297.10	2723.57	26.89	2723.70	1.39	36	36	23.801	108	10	5.478	
3629.00	90.06	359.76	1297.11	2752.57	26.80	2752.70	0.77	36	36	24.088	108	10	5.479	
3660.00	90.44	359.39	1296.98	2783.57	26.57	2783.69	1.71	36	36	24.394	108	10	5.482	
3721.00	90.94	359.14	1296.24	2844.56	25.79	2844.67	0.92	36	36	24.997	108	10	5.492	
3751.00	91.50	358.89	1295.60	2874.55	25.28	2874.66	2.04	36	36	25.294	108	10	5.498	
3782.00	89.56	359.64	1295.32	2905.54	24.88	2905.65	6.71	36	36	25.600	108	10	5.503	
3812.00	89.06	359.26	1295.68	2935.54	24.59	2935.64	2.09	36	36	25.897	108	10	5.506	
3843.00	88.63	359.01	1296.30	2966.53	24.12	2966.63	1.60	36	36	26.203	108	10	5.512	
3874.00	88.75	358.89	1297.01	2997.52	23.55	2997.61	0.55	36	36	26.510	108	10	5.519	
3904.00	89.06	358.89	1297.59	3027.51	22.97	3027.59	1.03	36	36	26.806	108	10	5.526	
3934.00	89.25	358.64	1298.03	3057.49	22.33	3057.58	1.05	36	36	27.103	108	10	5.534	
3965.00	89.44	358.52	1298.38	3088.48	21.56	3088.56	0.72	36	36	27.409	108	10	5.544	
3996.00	89.69	359.77	1298.62	3119.48	21.10	3119.55	4.11	36	36	27.716	108	10	5.549	
4025.00	89.81	0.14	1298.74	3148.48	21.07	3148.55	1.34	36	36	28.003	108	10	5.550	
4055.00	89.63	1.64	1298.89	3178.47	21.54	3178.54	5.04	36	36	28.299	108	10	5.544	
4086.00	89.56	1.89	1299.11	3209.46	22.49	3209.54	0.84	36	36	28.606	108	10	5.532	
4117.00	89.56	1.64	1299.35	3240.44	23.45	3240.53	0.81	36	36	28.912	108	10	5.520	
4148.00	90.25	1.52	1299.40	3271.43	24.30	3271.52	2.26	36	36	29.218	108	10	5.510	
4178.00	89.63	2.14	1299.43	3301.41	25.26	3301.51	2.92	36	36	29.515	108	10	5.498	
4209.00	88.25	1.52	1300.00	3332.39	26.25	3332.50	4.88	36	36	29.821	108	10	5.486	
4239.00	87.63	1.02	1301.08	3362.37	26.92	3362.47	2.65	36	36	30.118	108	10	5.478	
4270.00	87.13	0.52	1302.50	3393.33	27.33	3393.44	2.28	36	36	30.424	108	10	5.473	
4301.00	87.25	0.26	1304.02	3424.29	27.54	3424.40	0.92	36	36	30.730	108	10	5.470	
4331.00	87.81	0.14	1305.31	3454.26	27.65	3454.37	1.91	36	36	31.026	108	10	5.469	
4363.00	88.13	0.01	1306.45	3486.24	27.69	3486.35	1.08	36	36	31.343	108	10	5.468	
4393.00	88.38	359.89	1307.36	3516.23	27.66	3516.34	0.92	36	36	31.639	108	10	5.469	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: XTO
Field: San Juan, NM (NAD 83)
Site: Shipp Gas Com #21H
Well: Shipp Gas Com #21H
Wellpath: Horizontal

Date: 10/1/2010 Time: 07:27:06 Page: 4
Co-ordinate(NE) Reference: Well: Shipp Gas Com #21H, True North
Vertical (TVD) Reference: SITE 5790.0
Section (VS) Reference: Well (0.00N,0.00E,0.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
4424.00	87.88	359.39	1308.37	3547.21	27.47	3547.32	2.28	36	36	31.946	108	10	5.471	
4454.00	87.63	359.26	1309.55	3577.19	27.12	3577.29	0.94	36	36	32.242	108	10	5.475	
4485.00	88.81	359.14	1310.51	3608.17	26.68	3608.27	3.83	36	36	32.548	108	10	5.481	
4515.00	89.13	359.14	1311.05	3638.16	26.23	3638.25	1.07	36	36	32.845	108	10	5.486	
4546.00	89.19	359.02	1311.50	3669.15	25.73	3669.24	0.43	36	36	33.151	108	10	5.492	
4577.00	89.13	358.64	1311.96	3700.14	25.10	3700.23	1.24	36	36	33.458	108	10	5.500	
4605.00	89.19	358.77	1312.37	3728.13	24.47	3728.21	0.51	36	36	33.735	108	10	5.508	Last Wft Svy
4655.00	89.19	358.77	1313.08	3778.12	23.40	3778.18	0.00	36	36	34.229	108	10	5.521	Proj. To Bit

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction