

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 05 2011

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NMM-83503

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NMM-87178

8. Well Name and No.

GRASSY CANYON #8

9. API Well No.

30-045-35067

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, State

SAN JUAN

NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO ENERGY INC.

3a. Address

382 RD 3100, AZTEC, NM 87410

3b. Phone No. (include area code)

505-333-3176

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 944' FNL & 2389' FEL NWNE SEC. 31 (B) - T32N-R7W N.M.P.M.

BHL: 2161' FSL & 1765' FEL NWSE SEC. 31 (J) - T32N-R7W N.M.P.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete ☒ Other
☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon CHANGE OF LOCATION
☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

XTO Energy Inc. would like to report a change of location for this well due to an error in the original survey. The original plat footages were being measured from a calculated corner of the section whereas the footages on the new plat are based on a measured corner of the section.

Please see the attached corrected plat.

RCVD JAN 5 '11

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

TEENA M. WHITING

Title REGULATORY COMPLIANCE TECHNICIAN

Signature

Teena M. Whiting

Date 1/5/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title

PE

Date

1/5/2011

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FFO

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

Form C-102
Revised July, 16, 2010
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35067	*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 303846	*Property Name GRASSY CANYON	*Well Number 8
*OGRID No. 5380	*Operator Name XTO ENERGY INC.	*Elevation 6813'

10 Surface Location

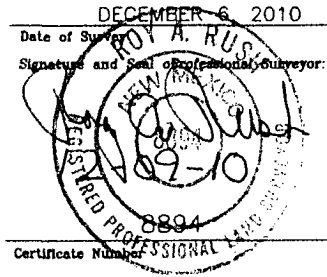
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	32-N	7-W		944	NORTH	2389	EAST	SAN JUAN

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
J	31	32-N	7-W		2161	SOUTH	1765	EAST	SAN JUAN

*Dedicated Acres 320	*Joint or Infill	*Consolidation Code	*Order No.
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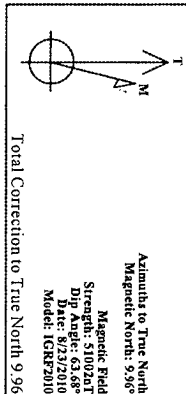
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 FD. 3 1/4" BC. 1962 BLM LOT 1 LOT 2 SURFACE LOCATION: LAT: 36.94321° N. (NAD 83) LONG: 107.60828° W. (NAD 83) LAT: 36°56'35.52692" N. (NAD 27) LONG: 107°36'27.60223" W. (NAD 27) LOT 3 BOTTOM HOLE LOCATION: LAT: 36.93796° N. (NAD 83) LONG: 107.60625° W. (NAD 83) LAT: 36°56'16.64451" N. (NAD 27) LONG: 107°36'20.29920" W. (NAD 27) LOT 4 AS-DRILLED BHL BHL FOOTAGES ARE AS-DRILLED AND PROVIDED BY XTO ENERGY INC. CLIENT FD. 2 1/2" BC. 1914 G.L.O. LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 WITNESS CORNER FD. 3 1/4" BC. 1962/65 BLM N 84°04' W 11.88' (.18 CHAIN) WITNESS CORNER FD. 3 1/4" BC. 1914 G.L.O. S 88°12' E 46.20' 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. <i>Teena M. Whiting</i> 1-5-11 Signature Date Teena M. Whiting Printed Name teena.whiting@xtoenergy.com E-mail Address 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. DECEMBER 6, 2010 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number
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SECTION DETAILS									
Sec	MD	Inc	Azi	TYD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	162.82	0.00	0.00	0.00	0.00	0.00	0.00
2	350.00	0.00	162.82	350.00	0.00	0.00	0.00	0.00	0.00
3	1850.00	45.00	162.82	1700.47	-534.44	165.19	3.00	162.82	539.38
4	3053.60	45.00	162.82	2551.55	-1347.55	416.52	0.00	0.00	1410.46
5	4220.26	10.00	162.82	3570.38	-1854.27	573.14	3.00	180.00	1940.83
6	4554.97	10.00	162.82	3900.00	-1909.80	590.30	0.00	0.00	1998.95 PBHL

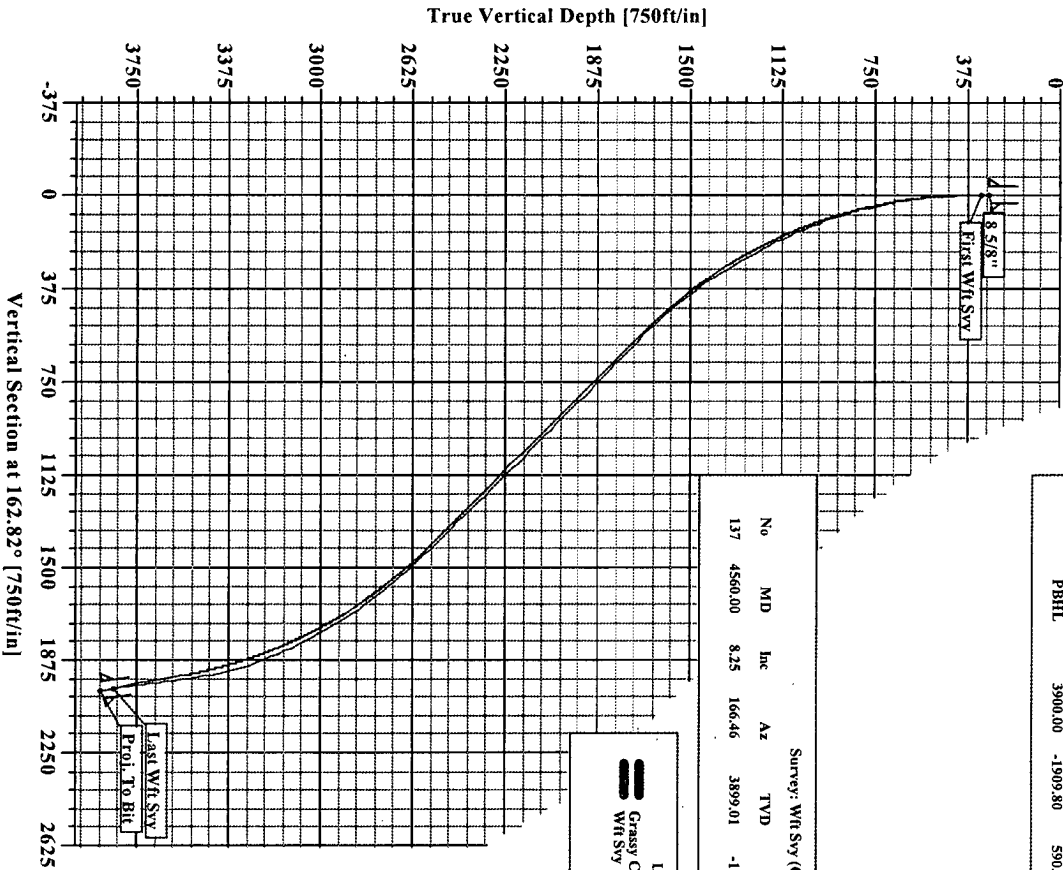
WELL DETAILS									
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot		
Grassy Canyon #8	0.00	0.00	2162768.57	2788857.62	36°56'35.844"N	107°36'29.880"W	N/A		

TARGET DETAILS									
Name	TYD	+N/-S	+E/-W	Latitude	Longitude	Shape			
PBHL	3900.00	-1909.80	590.30	36°56'16.959"N	107°36'22.608"W	Point			

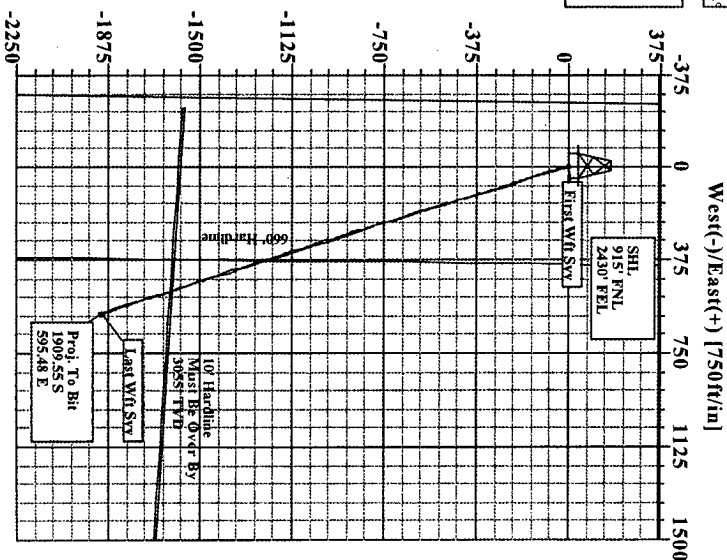


Survey: Wt Svy (Grassy Canyon #8/S Well)									
No	MD	Inc	Az	TYD	+N/-S	+E/-W	DLeg	TFace	VSec
137	4560.00	8.25	166.46	3899.01	-1909.55	595.48	0.00	0.00	2000.24

LEGEND
= Grassy Canyon #8/S Well Plan #1
= Wt Svy



South(-)/North(+) [750ft/in]



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

Grassy Canyon #8
Site Centre Latitude: 36°56'35.844"N
Longitude: 107°36'29.880"W
Ground Level: 6807.00
Positional Uncertainty: 0.00
Convergence: 0.14

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	2613.00	3141.87	Kirland Shale
2	3055.00	3684.94	Fruitland Formation
3	3361.00	4015.15	Upper Fruitland Coal
4	3596.00	4254.04	Pictured Cliffs Tongue
5	3708.00	4367.07	Pictured Cliffs
6	3806.00	4466.02	Base Pictured Cliffs



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO		Date: 9/2/2010	Time: 08:08:05	Page: 1										
Field: San Juan, NM (NAD 83)		Co-ordinate(NE) Reference:	Well: Grassy Canyon #8, True North											
Site: Grassy Canyon #8		Vertical (TVD) Reference:	SITE 6819.0											
Well: Grassy Canyon #8		Section (VS) Reference:	Well (0.00N,0.00E,162.82Azi)											
Wellpath: S Well		Survey Calculation Method:	Minimum Curvature Db: Sybase											
Survey: Wft Svy		Start Date:	8/30/2010											
Company: Weatherford International Ltd.		Engineer:	Russell W. Joyner											
Tool: CDS MWD2;ISCWSA		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: Grassy Canyon #8														
Site Position:		Northing: 2162768.57 ft	Latitude: 36 56 35.844 N											
From: Geographic		Easting: 2788857.62 ft	Longitude: 107 36 29.880 W											
Position Uncertainty: 0.00 ft		North Reference: True	Grid Convergence: 0.14 deg											
Ground Level: 6807.00 ft														
Well: Grassy Canyon #8		Slot Name:												
Well Position: +N/-S 0.00 ft		Northing: 2162768.57 ft	Latitude: 36 56 35.844 N											
+E/-W 0.00 ft		Easting: 2788857.62 ft	Longitude: 107 36 29.880 W											
Position Uncertainty: 0.00 ft														
Wellpath: S Well		Drilled From: Surface												
Current Datum: SITE		Tie-on Depth: 0.00 ft												
Magnetic Data: 8/23/2010		Above System Datum: Mean Sea Level												
Field Strength: 51002 nT		Declination: 9.96 deg												
Vertical Section: Depth From (TVD)		Mag Dip Angle: 63.68 deg												
ft		+N/-S ft	+E/-W ft	Direction deg										
0.00	0.00	0.00	0.00	162.82										
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	56	35.844	107	36	29.880	First Wft Sv
317.00	0.65	180.76	316.99	-1.80	-0.02	1.71	0.21	36	56	35.826	107	36	29.880	
348.00	0.75	180.34	347.99	-2.18	-0.03	2.07	0.32	36	56	35.822	107	36	29.880	
378.00	1.31	173.84	377.99	-2.71	0.01	2.60	1.90	36	56	35.817	107	36	29.880	
409.00	1.94	174.21	408.97	-3.59	0.10	3.46	2.03	36	56	35.809	107	36	29.879	
440.00	2.63	169.59	439.95	-4.81	0.28	4.68	2.30	36	56	35.796	107	36	29.877	
471.00	3.56	167.59	470.90	-6.45	0.62	6.34	3.02	36	56	35.780	107	36	29.872	
502.00	4.63	165.84	501.82	-8.60	1.13	8.55	3.47	36	56	35.759	107	36	29.866	
533.00	5.56	167.84	532.70	-11.28	1.75	11.30	3.05	36	56	35.732	107	36	29.858	
564.00	6.50	165.00	563.53	-14.45	2.52	14.55	3.18	36	56	35.701	107	36	29.849	
594.00	7.38	165.59	593.31	-17.95	3.44	18.17	2.94	36	56	35.666	107	36	29.838	
625.00	8.19	164.84	624.02	-22.01	4.51	22.36	2.63	36	56	35.626	107	36	29.824	
656.00	9.19	165.21	654.67	-26.54	5.72	27.04	3.23	36	56	35.582	107	36	29.809	
686.00	10.25	164.59	684.24	-31.43	7.04	32.11	3.55	36	56	35.533	107	36	29.793	
717.00	11.25	165.96	714.69	-37.02	8.51	37.88	3.33	36	56	35.478	107	36	29.775	
748.00	12.31	166.09	745.04	-43.16	10.04	44.20	3.42	36	56	35.417	107	36	29.756	
779.00	13.25	167.96	775.27	-49.84	11.57	51.04	3.31	36	56	35.351	107	36	29.737	
809.00	14.44	168.21	804.40	-56.87	13.06	58.19	3.97	36	56	35.282	107	36	29.719	
839.00	15.50	166.71	833.38	-64.43	14.74	65.91	3.76	36	56	35.207	107	36	29.698	
870.00	16.75	164.96	863.16	-72.78	16.85	74.51	4.33	36	56	35.124	107	36	29.672	
901.00	17.94	163.34	892.75	-81.67	19.38	83.75	4.14	36	56	35.036	107	36	29.641	
931.00	19.19	162.46	921.19	-90.79	22.19	93.30	4.27	36	56	34.946	107	36	29.607	
962.00	20.06	161.84	950.39	-100.70	25.38	103.71	2.89	36	56	34.848	107	36	29.567	
994.00	21.06	161.71	980.35	-111.38	28.90	114.94	3.13	36	56	34.743	107	36	29.524	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 9/2/2010	Time: 08:08:05	Page: 2
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Grassy Canyon #8, True North		
Site: Grassy Canyon #8	Vertical (TVD) Reference: SITE 6819.0		
Well: Grassy Canyon #8	Section (VS) Reference: Well (0.00N,0.00E,162.82Azi)		
Wellpath: S Well	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
1026.00	22.19	161.96	1010.09	-122.58	32.57	126.74	3.54	36	56	34.632	107	36	29.479	
1057.00	23.00	162.09	1038.72	-133.91	36.25	138.64	2.62	36	56	34.520	107	36	29.433	
1089.00	23.56	161.96	1068.11	-145.94	40.15	151.29	1.76	36	56	34.401	107	36	29.385	
1120.00	24.19	161.71	1096.46	-157.86	44.07	163.84	2.06	36	56	34.283	107	36	29.337	
1152.00	24.88	161.71	1125.57	-170.48	48.24	177.12	2.16	36	56	34.158	107	36	29.286	
1182.00	25.44	161.59	1152.72	-182.59	52.25	189.87	1.87	36	56	34.039	107	36	29.236	
1213.00	26.19	162.09	1180.63	-195.41	56.46	203.37	2.52	36	56	33.912	107	36	29.184	
1245.00	26.69	162.09	1209.28	-208.97	60.84	217.62	1.56	36	56	33.778	107	36	29.131	
1277.00	27.44	162.21	1237.78	-222.83	65.30	232.18	2.35	36	56	33.641	107	36	29.076	
1309.00	28.31	162.21	1266.06	-237.08	69.87	247.14	2.72	36	56	33.500	107	36	29.019	
1340.00	29.25	161.71	1293.23	-251.27	74.50	262.06	3.13	36	56	33.359	107	36	28.962	
1371.00	30.44	161.21	1320.12	-265.89	79.40	277.48	3.92	36	56	33.215	107	36	28.902	
1403.00	31.44	161.21	1347.57	-281.47	84.70	293.93	3.12	36	56	33.061	107	36	28.837	
1434.00	32.38	161.21	1373.88	-296.98	89.98	310.31	3.03	36	56	32.907	107	36	28.772	
1466.00	33.38	160.84	1400.76	-313.41	95.63	327.67	3.19	36	56	32.745	107	36	28.702	
1498.00	34.38	161.21	1427.32	-330.28	101.43	345.50	3.19	36	56	32.578	107	36	28.631	
1529.00	35.44	161.71	1452.74	-347.10	107.07	363.24	3.54	36	56	32.412	107	36	28.561	
1561.00	36.50	162.34	1478.64	-364.98	112.87	382.03	3.51	36	56	32.235	107	36	28.490	
1592.00	37.38	163.09	1503.42	-382.76	118.40	400.66	3.19	36	56	32.059	107	36	28.421	
1623.00	38.31	163.59	1527.90	-400.98	123.85	419.68	3.16	36	56	31.879	107	36	28.354	
1654.00	39.31	164.09	1552.05	-419.65	129.26	439.10	3.38	36	56	31.694	107	36	28.288	
1686.00	40.25	164.46	1576.65	-439.35	134.81	459.57	3.03	36	56	31.500	107	36	28.219	
1718.00	40.94	164.34	1600.94	-459.41	140.41	480.38	2.17	36	56	31.301	107	36	28.150	
1749.00	41.56	164.34	1624.25	-479.09	145.92	500.82	2.00	36	56	31.107	107	36	28.082	
1779.00	42.25	164.46	1646.58	-498.39	151.31	520.85	2.32	36	56	30.916	107	36	28.016	
1810.00	43.11	163.88	1669.37	-518.61	157.05	541.86	3.05	36	56	30.716	107	36	27.945	
1842.00	44.06	162.71	1692.55	-539.74	163.39	563.92	3.89	36	56	30.507	107	36	27.867	
1873.00	44.88	162.34	1714.67	-560.45	169.91	585.63	2.77	36	56	30.302	107	36	27.787	
1904.00	45.56	162.46	1736.51	-581.42	176.56	607.63	2.21	36	56	30.095	107	36	27.705	
1935.00	45.88	162.71	1758.15	-602.60	183.21	629.83	1.18	36	56	29.885	107	36	27.623	
1967.00	46.44	162.71	1780.31	-624.64	190.07	652.91	1.75	36	56	29.667	107	36	27.539	
1998.00	47.06	162.96	1801.55	-646.21	196.73	675.49	2.08	36	56	29.454	107	36	27.456	
2028.00	46.56	163.09	1822.09	-667.13	203.12	697.36	1.70	36	56	29.247	107	36	27.378	
2060.00	46.75	163.34	1844.05	-689.41	209.84	720.63	0.82	36	56	29.027	107	36	27.295	
2091.00	46.06	163.21	1865.43	-710.91	216.30	743.08	2.25	36	56	28.814	107	36	27.215	
2122.00	45.13	163.21	1887.12	-732.12	222.69	765.23	3.00	36	56	28.605	107	36	27.137	
2153.00	44.63	162.96	1909.08	-753.04	229.06	787.10	1.71	36	56	28.398	107	36	27.058	
2185.00	44.88	163.21	1931.81	-774.60	235.61	809.63	0.96	36	56	28.185	107	36	26.978	
2216.00	45.00	163.84	1953.75	-795.60	241.82	831.53	1.49	36	56	27.977	107	36	26.901	
2248.00	44.44	163.46	1976.49	-817.20	248.16	854.04	1.94	36	56	27.763	107	36	26.823	
2278.00	44.44	162.71	1997.91	-837.30	254.27	875.05	1.75	36	56	27.565	107	36	26.748	
2311.00	44.88	162.96	2021.38	-859.46	261.12	898.24	1.44	36	56	27.345	107	36	26.663	
2342.00	44.81	162.46	2043.36	-880.33	267.62	920.10	1.16	36	56	27.139	107	36	26.583	
2373.00	44.69	161.71	2065.38	-901.10	274.33	941.93	1.75	36	56	26.934	107	36	26.501	
2404.00	44.94	162.09	2087.37	-921.87	281.12	963.77	1.18	36	56	26.728	107	36	26.417	
2434.00	45.25	162.84	2108.55	-942.13	287.52	985.02	2.05	36	56	26.528	107	36	26.338	
2466.00	45.38	163.21	2131.05	-963.89	294.16	1007.77	0.92	36	56	26.313	107	36	26.256	
2497.00	45.88	163.34	2152.73	-985.11	300.54	1029.93	1.64	36	56	26.103	107	36	26.178	
2528.00	45.81	163.46	2174.32	-1006.43	306.89	1052.17	0.36	36	56	25.892	107	36	26.099	
2560.00	45.82	163.63	2196.62	-1028.43	313.39	1075.11	0.38	36	56	25.675	107	36	26.019	
2590.00	45.19	163.84	2217.65	-1048.98	319.39	1096.51	2.16	36	56	25.471	107	36	25.946	
2622.00	44.81	163.59	2240.28	-1070.70	325.73	1119.14	1.31	36	56	25.257	107	36	25.867	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO

Field: San Juan, NM (NAD 83)

Site: Grassy Canyon #8

Well: Grassy Canyon #8

Wellpath: S Well

Date: 9/2/2010

Time: 08:08:05

Page: 3

Co-ordinate(NE) Reference:

Well: Grassy Canyon #8, True North

Vertical (TVD) Reference:

SITE 6819.0

Section (VS) Reference:

Well (0.00N,0.00E,162.82Azi)

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
2654.00	44.19	162.96	2263.10	-1092.18	332.18	1141.56	2.38	36	56	25.044	107	36	25.788	
2685.00	43.50	162.09	2285.46	-1112.66	338.63	1163.04	2.96	36	56	24.842	107	36	25.709	
2718.00	43.44	162.09	2309.41	-1134.26	345.61	1185.74	0.18	36	56	24.628	107	36	25.622	
2749.00	43.51	161.71	2331.90	-1154.54	352.24	1207.06	0.87	36	56	24.428	107	36	25.541	
2780.00	43.81	162.34	2354.33	-1174.89	358.84	1228.46	1.70	36	56	24.226	107	36	25.460	
2811.00	44.06	163.34	2376.66	-1195.44	365.19	1249.97	2.38	36	56	24.023	107	36	25.381	
2842.00	44.19	162.84	2398.91	-1216.09	371.47	1271.56	1.20	36	56	23.819	107	36	25.304	
2873.00	44.63	162.59	2421.05	-1236.81	377.91	1293.25	1.53	36	56	23.614	107	36	25.225	
2903.00	44.50	163.21	2442.43	-1256.93	384.10	1314.30	1.51	36	56	23.415	107	36	25.148	
2934.00	44.31	162.71	2464.57	-1277.67	390.46	1335.99	1.28	36	56	23.210	107	36	25.070	
2966.00	44.75	161.84	2487.39	-1299.04	397.29	1358.43	2.35	36	56	22.999	107	36	24.986	
2997.00	44.94	162.46	2509.37	-1319.85	403.99	1380.29	1.54	36	56	22.793	107	36	24.903	
3029.00	44.88	163.21	2532.03	-1341.44	410.66	1402.88	1.67	36	56	22.579	107	36	24.821	
3062.00	44.50	162.71	2555.49	-1363.62	417.46	1426.09	1.57	36	56	22.360	107	36	24.737	
3093.00	44.13	161.71	2577.67	-1384.25	424.08	1447.74	2.55	36	56	22.156	107	36	24.656	
3124.00	43.63	161.34	2600.01	-1404.63	430.89	1469.23	1.81	36	56	21.955	107	36	24.572	
3156.00	42.81	161.21	2623.33	-1425.38	437.92	1491.13	2.58	36	56	21.749	107	36	24.485	
3187.00	42.19	161.21	2646.19	-1445.21	444.67	1512.07	2.00	36	56	21.553	107	36	24.402	
3219.00	41.31	160.96	2670.06	-1465.36	451.57	1533.36	2.80	36	56	21.354	107	36	24.317	
3250.00	40.25	161.50	2693.54	-1484.53	458.09	1553.60	3.60	36	56	21.164	107	36	24.237	
3282.00	39.38	161.71	2718.12	-1503.98	464.55	1574.09	2.75	36	56	20.972	107	36	24.157	
3313.00	38.13	161.59	2742.29	-1522.40	470.66	1593.49	4.04	36	56	20.790	107	36	24.082	
3345.00	36.94	161.84	2767.67	-1540.91	476.78	1612.98	3.75	36	56	20.607	107	36	24.007	
3377.00	36.06	162.34	2793.39	-1559.02	482.63	1632.01	2.90	36	56	20.428	107	36	23.935	
3408.00	35.13	162.13	2818.60	-1576.20	488.14	1650.06	3.03	36	56	20.258	107	36	23.867	
3440.00	34.25	161.89	2844.91	-1593.52	493.76	1668.27	2.78	36	56	20.087	107	36	23.798	
3472.00	33.19	161.71	2871.52	-1610.40	499.31	1686.03	3.33	36	56	19.920	107	36	23.729	
3504.00	32.31	162.34	2898.44	-1626.86	504.66	1703.34	2.95	36	56	19.757	107	36	23.663	
3534.00	31.56	162.84	2923.90	-1642.00	509.40	1719.21	2.65	36	56	19.607	107	36	23.605	
3566.00	30.69	162.96	2951.29	-1657.81	514.27	1735.75	2.73	36	56	19.451	107	36	23.545	
3597.00	30.00	163.09	2978.04	-1672.79	518.84	1751.41	2.24	36	56	19.303	107	36	23.489	
3629.00	29.19	163.34	3005.87	-1687.92	523.40	1767.21	2.56	36	56	19.153	107	36	23.432	
3661.00	28.44	163.34	3033.90	-1702.70	527.83	1782.63	2.34	36	56	19.007	107	36	23.378	
3694.00	27.84	163.63	3063.00	-1717.62	532.25	1798.20	1.86	36	56	18.860	107	36	23.323	
3725.00	27.00	163.21	3090.52	-1731.30	536.32	1812.47	2.78	36	56	18.724	107	36	23.273	
3756.00	26.00	162.09	3118.26	-1744.51	540.45	1826.30	3.61	36	56	18.594	107	36	23.223	
3786.00	24.63	160.96	3145.38	-1756.67	544.51	1839.13	4.84	36	56	18.473	107	36	23.173	
3818.00	22.75	160.21	3174.68	-1768.80	548.78	1851.97	5.95	36	56	18.354	107	36	23.120	
3848.00	21.13	159.34	3202.51	-1779.32	552.65	1863.17	5.51	36	56	18.250	107	36	23.072	
3878.00	20.31	159.46	3230.57	-1789.25	556.39	1873.76	2.74	36	56	18.151	107	36	23.026	
3910.00	19.75	160.59	3260.63	-1799.55	560.13	1884.71	2.13	36	56	18.049	107	36	22.980	
3941.00	18.44	161.84	3289.93	-1809.15	563.40	1894.84	4.43	36	56	17.955	107	36	22.940	
3973.00	16.81	163.21	3320.43	-1818.39	566.31	1904.53	5.26	36	56	17.863	107	36	22.904	
4005.00	15.13	163.59	3351.19	-1826.83	568.83	1913.34	5.26	36	56	17.780	107	36	22.873	
4036.00	13.63	163.34	3381.22	-1834.21	571.02	1921.03	4.84	36	56	17.707	107	36	22.846	
4067.00	12.31	162.84	3411.43	-1840.87	573.04	1927.99	4.27	36	56	17.641	107	36	22.821	
4099.00	10.63	161.81	3442.79	-1846.93	574.97	1934.35	5.29	36	56	17.581	107	36	22.797	
4131.00	9.25	157.71	3474.30	-1852.11	576.87	1939.87	4.84	36	56	17.530	107	36	22.774	
4163.00	8.81	157.46	3505.91	-1856.76	578.78	1944.87	1.38	36	56	17.484	107	36	22.750	
4195.00	8.31	157.09	3537.55	-1861.15	580.62	1949.61	1.57	36	56	17.440	107	36	22.728	
4226.00	8.06	156.84	3568.24	-1865.21	582.35	1954.00	0.81	36	56	17.400	107	36	22.706	
4258.00	7.94	157.34	3599.92	-1869.31	584.08	1958.43	0.43	36	56	17.360	107	36	22.685	
4289.00	7.75	162.09	3630.63	-1873.28	585.55	1962.65	2.18	36	56	17.320	107	36	22.667	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 9/2/2010	Time: 08:08:05	Page: 4
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Grassy Canyon #8, True North	
Site: Grassy Canyon #8	Vertical (TVD) Reference:	SITE 6819.0	
Well: Grassy Canyon #8	Section (VS) Reference:	Well (0.00N,0.00E,162.82Azi)	
Wellpath: S Well	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
4320.00	7.81	162.84	3661.35	-1877.28	586.81	1966.85	0.38	36	56	17.281	107	36	22.651	
4351.00	7.63	162.59	3692.07	-1881.26	588.05	1971.01	0.59	36	56	17.242	107	36	22.636	
4382.00	7.63	163.84	3722.79	-1885.20	589.24	1975.13	0.54	36	56	17.203	107	36	22.622	
4413.00	7.94	164.59	3753.51	-1889.24	590.38	1979.33	1.05	36	56	17.163	107	36	22.607	
4445.00	8.13	165.09	3785.19	-1893.55	591.55	1983.80	0.63	36	56	17.120	107	36	22.593	
4476.00	8.25	166.21	3815.88	-1897.83	592.65	1988.21	0.64	36	56	17.078	107	36	22.580	
4507.00	8.25	166.46	3846.56	-1902.15	593.70	1992.65	0.12	36	56	17.035	107	36	22.567	Last Wft Sy
4560.00	8.25	166.46	3899.01	-1909.55	595.48	2000.24	0.00	36	56	16.962	107	36	22.545	Proj. To Bit

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
291.00	290.99	8.625	8.625	8 5/8"
4554.97	3894.03	5.500	5.500	5 1/2"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3141.87	2613.00	Kirtland Shale		0.00	0.00
3684.94	3055.00	Fruitland Formation		0.00	0.00
4015.15	3361.00	Upper Fruitland Coal		0.00	0.00
4254.04	3596.00	Pictured Cliffs Tongue		0.00	0.00
4367.07	3708.00	Pictured Cliffs		0.00	0.00
4466.02	3806.00	Base Pictured Cliffs		0.00	0.00