

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

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

"AS Drilled"
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 30-045-35024	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 303846	⁵ Property Name GRASSY CANYON	⁶ Well Number 9
⁷ GRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6721'

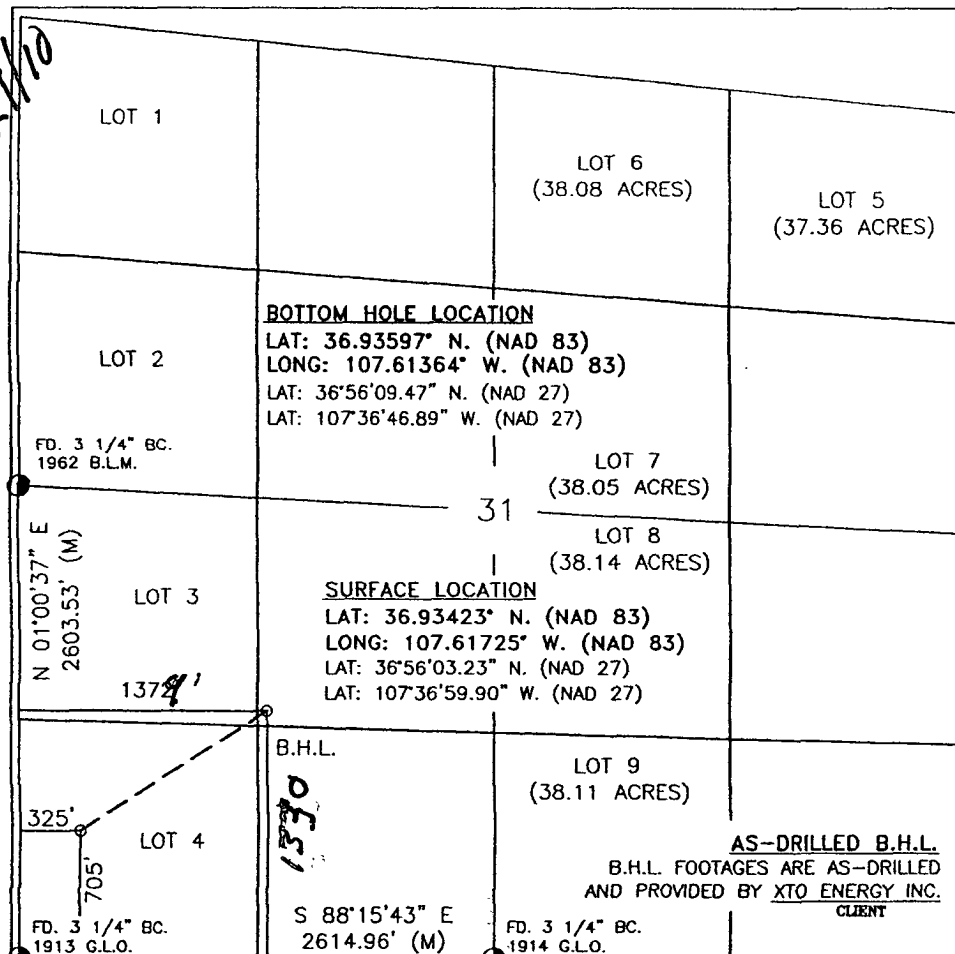
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	31	32-N	7-W		705	SOUTH	325	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
K	31	32-N	7-W		1330'	SOUTH	1379	WEST	SAN JUAN
¹² Dedicated Acres			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. RCVD MAY 26 '10 OIL CONS. DIV.		

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 DIST. 3



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.

Teena M. Whiting 5-18-10
Signature Date
Teena M Whiting
Printed Name

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.

MAY 10, 2010
Date of Survey
Signature and Seal of Professional Surveyor:
ROBERT A. RUSH
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8899
Certificate Number



Weatherford International Ltd.

Survey Report - Geographic

**Weatherford**

Company: XTO Date: 10/27/2009 Time: 10:24:10 Page: 1
Field: SAN JUAN CO. NM (NAD 83) Co-ordinate(NE) Reference: Well: #9, True North
Site: Grassy Canyon #9 Vertical (TVD) Reference: SITE 6733.0
Well: #9 Section (VS) Reference: Well (0.00N,0.00E,59.06Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: SAN JUAN CO. 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: Well Centre
Geomagnetic Model: igrf200510

Site: Grassy Canyon #9

705' FSL & 325' FWL

Site Position: Northing: 2159464.08 ft Latitude: 36 56 3.228 N
From: Geographic Easting: 2786249.67 ft Longitude: 107 37 2.100 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 6721.00 ft Grid Convergence: 0 13 deg

Well: #9

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2159464.08 ft Latitude: 36 56 3.228 N
+E/-W 0.00 ft Easting: 2786249.67 ft Longitude: 107 37 2.100 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10 05 deg
Mag Dip Angle: 63 71 deg
+E/-W Direction deg

Current Datum: SITE Height 6733.00 ft
Magnetic Data: 10/7/2009
Field Strength: 51113 nT
Vertical Section: Depth From (TVD) +N/-S ft ft
0.00 0.00

Survey: WFT SVY

Start Date: 10/23/2009

Company: Weatherford International Ltd.
Tool: MWD, MWD - Standard

Engineer: Jayme Wilson
Tied-to: From Surface

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
0.00	0.00	0.00	0.00	0.00	0.00	2159464.08	2786249.67	36 56 3.228 N	107 37 2.100 W
317.00	0.06	238.54	317.00	-0.09	-0.14	2159463.99	2786249.53	36 56 3.227 N	107 37 2.102 W
348.00	0.03	127.31	348.00	-0.10	-0.15	2159463.98	2786249.53	36 56 3.227 N	107 37 2.102 W
379.00	0.07	191.42	379.00	-0.12	-0.15	2159463.95	2786249.53	36 56 3.227 N	107 37 2.102 W
410.00	0.07	194.57	410.00	-0.16	-0.15	2159463.91	2786249.52	36 56 3.226 N	107 37 2.102 W
441.00	0.06	203.29	441.00	-0.19	-0.17	2159463.88	2786249.51	36 56 3.226 N	107 37 2.102 W
472.00	0.19	214.54	472.00	-0.25	-0.20	2159463.82	2786249.47	36 56 3.226 N	107 37 2.102 W
502.00	1.00	38.67	502.00	-0.09	-0.07	2159463.99	2786249.61	36 56 3.227 N	107 37 2.101 W
533.00	2.25	44.17	532.99	0.56	0.53	2159464.64	2786250.20	36 56 3.234 N	107 37 2.094 W
564.00	3.75	44.79	563.94	1.72	1.67	2159465.80	2786251.34	36 56 3.245 N	107 37 2.079 W
595.00	5.13	49.42	594.85	3.34	3.43	2159467.42	2786253.10	36 56 3.261 N	107 37 2.058 W
626.00	6.56	51.17	625.69	5.35	5.86	2159469.44	2786255.53	36 56 3.281 N	107 37 2.028 W
657.00	7.63	54.79	656.45	7.65	8.93	2159471.74	2786258.58	36 56 3.304 N	107 37 1.990 W
688.00	8.25	57.29	687.15	10.03	12.48	2159474.14	2786262.13	36 56 3.327 N	107 37 1.946 W
719.00	8.38	56.29	717.83	12.49	16.23	2159476.60	2786265.88	36 56 3.352 N	107 37 1.900 W
749.00	8.44	56.29	747.50	14.93	19.88	2159479.05	2786269.52	36 56 3.376 N	107 37 1.855 W
781.00	8.81	59.42	779.14	17.48	23.94	2159481.61	2786273.58	36 56 3.401 N	107 37 1.805 W
811.00	9.00	64.79	808.78	19.64	28.04	2159483.78	2786277.67	36 56 3.422 N	107 37 1.755 W
842.00	10.06	65.04	839.35	21.82	32.69	2159485.97	2786282.32	36 56 3.444 N	107 37 1.697 W
873.00	10.81	62.17	869.84	24.32	37.72	2159488.48	2786287.34	36 56 3.468 N	107 37 1.635 W
904.00	11.00	59.29	900.28	27.19	42.83	2159491.36	2786292.44	36 56 3.497 N	107 37 1.572 W
935.00	11.88	57.42	930.66	30.42	48.06	2159494.60	2786297.67	36 56 3.529 N	107 37 1.508 W
966.00	13.38	57.54	960.91	34.06	53.78	2159498.26	2786303.38	36 56 3.565 N	107 37 1.438 W



Weatherford International Ltd.

Survey Report - Geographic

**Weatherford**

Company: XTO
Field: SAN JUAN CO. NM (NAD 83)
Site: Grassy Canyon #9
Well: #9
Wellpath: 1

Date: 10/27/2009 Time: 10:24:10 Page: 2
Co-ordinate(NE) Reference: Well: #9, True North
Vertical (TVD) Reference: SITE 6733.0
Section (VS) Reference: Well (0.00N,0.00E,59.06Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec			Longitude Deg Min Sec		
997.00	14.81	58.92	990.98	38.03	60.20	2159502.24	2786309.79	36	56	3 604 N	107	37	1 358 W
1028.00	15.61	60.79	1020.89	42.11	67.23	2159506.34	2786316.81	36	56	3.644 N	107	37	1.272 W
1059.00	15.94	62.29	1050.73	46.13	74.64	2159510.37	2786324.21	36	56	3 684 N	107	37	1.181 W
1089.00	16.88	62.42	1079.50	50.06	82.15	2159514.32	2786331.71	36	56	3 723 N	107	37	1.088 W
1120.00	18.00	61.04	1109.08	54.46	90.33	2159518.74	2786339.88	36	56	3.767 N	107	37	0.987 W
1151.00	18.69	59.54	1138.50	59.30	98.80	2159523.60	2786348.34	36	56	3.814 N	107	37	0.883 W
1182.00	19.81	59.17	1167.77	64.51	107.59	2159528.83	2786357.12	36	56	3.866 N	107	37	0.775 W
1213.00	21.44	60.42	1196.78	70.00	117.03	2159534.34	2786366.55	36	56	3.920 N	107	37	0.658 W
1244.00	22.50	60.42	1225.53	75.72	127.12	2159540.99	2786376.62	36	56	3 977 N	107	37	0.534 W
1274.00	23.83	60.58	1253.11	81.53	137.39	2159545.92	2786386.88	36	56	4.034 N	107	37	0.408 W
1305.00	25.00	59.17	1281.34	87.97	148.47	2159552.38	2786397.95	36	56	4.098 N	107	37	0.271 W
1337.00	25.88	58.67	1310.23	95.06	160.24	2159559.50	2786409.70	36	56	4.168 N	107	37	0.126 W
1368.00	26.75	59.42	1338.02	102.13	172.03	2159566.60	2786421.47	36	56	4.238 N	107	36	59.981 W
1400.00	27.44	60.17	1366.51	109.46	184.62	2159573.96	2786434.05	36	56	4.310 N	107	36	59.826 W
1432.00	28.19	59.04	1394.81	117.02	197.50	2159581.54	2786446.91	36	56	4.385 N	107	36	59.667 W
1464.00	28.75	57.67	1422.94	125.02	210.49	2159589.57	2786459.88	36	56	4.464 N	107	36	59.507 W
1495.00	29.25	57.92	1450.06	133.03	223.20	2159597.61	2786472.58	36	56	4.543 N	107	36	59.351 W
1527.00	29.81	57.54	1477.90	141.45	236.54	2159606.06	2786485.89	36	56	4.627 N	107	36	59.186 W
1557.00	30.31	57.54	1503.86	149.52	249.22	2159614.16	2786498.55	36	56	4.706 N	107	36	59.030 W
1589.00	30.88	58.42	1531.41	158.15	263.03	2159622.82	2786512.34	36	56	4.792 N	107	36	58.860 W
1619.00	31.69	58.92	1557.05	166.25	276.34	2159630.95	2786525.63	36	56	4.872 N	107	36	58.696 W
1651.00	32.13	58.79	1584.21	175.00	290.81	2159639.74	2786540.09	36	56	4.958 N	107	36	58.518 W
1683.00	33.06	59.17	1611.17	183.88	305.59	2159648.65	2786554.84	36	56	5.046 N	107	36	58.336 W
1715.00	34.19	58.42	1637.82	193.07	320.74	2159657.87	2786569.98	36	56	5.137 N	107	36	58.149 W
1747.00	35.19	57.92	1664.13	202.67	336.21	2159667.51	2786585.43	36	56	5.232 N	107	36	57.959 W
1779.00	35.25	58.17	1690.27	212.44	351.87	2159677.31	2786601.06	36	56	5.329 N	107	36	57.766 W
1810.00	35.13	59.29	1715.60	221.71	367.14	2159686.62	2786616.31	36	56	5.420 N	107	36	57.578 W
1841.00	34.94	59.20	1740.99	230.81	382.43	2159695.75	2786631.58	36	56	5.510 N	107	36	57.389 W
1873.00	34.81	58.29	1767.24	240.31	398.08	2159705.28	2786647.20	36	56	5.604 N	107	36	57.197 W
1904.00	35.25	59.79	1792.62	249.46	413.33	2159714.47	2786662.44	36	56	5.695 N	107	36	57.009 W
1936.00	35.31	58.92	1818.75	258.88	429.23	2159723.93	2786678.32	36	56	5.788 N	107	36	56.813 W
1968.00	35.81	59.67	1844.78	268.38	445.24	2159733.46	2786694.30	36	56	5.882 N	107	36	56.616 W
1999.00	35.94	60.79	1869.90	277.40	461.00	2159742.52	2786710.05	36	56	5.971 N	107	36	56.421 W
2031.00	36.38	60.29	1895.74	286.69	477.44	2159751.84	2786726.47	36	56	6.063 N	107	36	56.219 W
2063.00	36.31	60.54	1921.51	296.05	493.94	2159761.24	2786742.94	36	56	6.155 N	107	36	56.016 W
2094.00	36.31	61.92	1946.49	304.88	510.03	2159770.11	2786759.01	36	56	6.243 N	107	36	55.818 W
2126.00	36.13	60.29	1972.31	314.02	526.58	2159779.29	2786775.54	36	56	6.333 N	107	36	55.614 W
2158.00	35.75	58.92	1998.22	323.52	542.78	2159788.83	2786791.72	36	56	6.427 N	107	36	55.414 W
2190.00	34.75	57.42	2024.35	333.26	558.47	2159798.60	2786807.39	36	56	6.523 N	107	36	55.221 W
2221.00	34.38	57.92	2049.88	342.66	573.33	2159808.04	2786822.23	36	56	6.616 N	107	36	55.038 W
2252.00	34.44	58.04	2075.45	351.95	588.18	2159817.36	2786837.06	36	56	6.708 N	107	36	54.855 W
2284.00	34.31	56.67	2101.86	361.70	603.40	2159827.14	2786852.25	36	56	6.805 N	107	36	54.667 W
2315.00	34.06	56.67	2127.51	371.27	617.95	2159836.74	2786866.78	36	56	6.899 N	107	36	54.488 W
2346.00	33.88	57.67	2153.22	380.66	632.50	2159846.17	2786881.32	36	56	6.992 N	107	36	54.309 W
2378.00	33.63	57.29	2179.82	390.22	647.50	2159855.76	2786896.29	36	56	7.087 N	107	36	54.124 W
2410.00	32.88	57.54	2206.58	399.67	662.28	2159865.24	2786911.05	36	56	7.180 N	107	36	53.942 W
2442.00	31.56	58.54	2233.65	408.70	676.76	2159874.31	2786925.50	36	56	7.269 N	107	36	53.764 W
2474.00	30.75	58.67	2261.04	417.32	690.89	2159882.97	2786939.61	36	56	7.355 N	107	36	53.590 W
2504.00	30.00	59.92	2286.92	425.07	703.93	2159890.74	2786952.64	36	56	7.431 N	107	36	53.429 W
2536.00	29.31	61.04	2314.73	432.87	717.70	2159898.58	2786966.40	36	56	7.508 N	107	36	53.259 W
2567.00	28.44	61.92	2341.88	440.02	730.86	2159905.75	2786979.53	36	56	7.579 N	107	36	53.097 W
2598.00	27.56	61.04	2369.25	446.97	743.64	2159912.73	2786992.30	36	56	7.648 N	107	36	52.940 W



Weatherford International Ltd.

Survey Report - Geographic

**Weatherford**

Company: XTO
Field: SAN JUAN CO. NM (NAD 83)
Site: Grassy Canyon #9
Well: #9
Wellpath: 1

Date: 10/27/2009 Time: 10:24:10 Page: 3
Co-ordinate(NE) Reference: Well: #9, True North
Vertical (TVD) Reference: SITE 6733.0
Section (VS) Reference: Well (0.00N,0.00E,59.06Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
2629.00	26.50	60.29	2396.86	453.87	755.93	2159919.66	2787004.57	36	56	7.716 N	107	36	52.789 W
2661.00	25.94	57.79	2425.57	461.14	768.05	2159926.95	2787016.68	36	56	7.788 N	107	36	52.639 W
2693.00	25.30	57.45	2454.42	468.55	779.74	2159934.39	2787028.35	36	56	7.861 N	107	36	52.495 W
2724.00	24.94	57.92	2482.49	475.58	790.86	2159941.45	2787039.45	36	56	7.931 N	107	36	52.358 W
2755.00	24.94	57.79	2510.60	482.54	801.92	2159948.43	2787050.50	36	56	7.999 N	107	36	52.222 W
2787.00	24.56	58.79	2539.66	489.58	813.32	2159955.50	2787061.88	36	56	8.069 N	107	36	52.082 W
2819.00	23.69	58.92	2568.87	496.35	824.51	2159962.29	2787073.06	36	56	8.136 N	107	36	51.944 W
2850.00	23.13	61.17	2597.31	502.50	835.18	2159968.46	2787083.72	36	56	8.197 N	107	36	51.812 W
2881.00	21.94	62.17	2625.95	508.14	845.64	2159974.13	2787094.16	36	56	8.252 N	107	36	51.683 W
2912.00	20.84	59.54	2654.81	513.64	855.51	2159979.65	2787104.02	36	56	8.307 N	107	36	51.562 W
2943.00	20.63	58.67	2683.80	519.27	864.93	2159985.31	2787113.43	36	56	8.363 N	107	36	51.446 W
2974.00	20.00	58.54	2712.88	524.88	874.12	2159990.93	2787122.60	36	56	8.418 N	107	36	51.333 W
3005.00	19.13	56.71	2742.09	530.43	882.89	2159996.51	2787131.36	36	56	8.473 N	107	36	51.225 W
3037.00	18.38	56.54	2772.39	536.09	891.48	2160002.19	2787139.94	36	56	8.529 N	107	36	51.119 W
3069.00	17.50	56.17	2802.83	541.55	899.69	2160007.67	2787148.13	36	56	8.583 N	107	36	51.018 W
3100.00	16.19	57.42	2832.50	546.48	907.20	2160012.61	2787155.63	36	56	8.632 N	107	36	50.925 W
3132.00	15.56	57.67	2863.28	551.17	914.58	2160017.32	2787163.01	36	56	8.678 N	107	36	50.834 W
3163.00	14.75	60.42	2893.20	555.35	921.53	2160021.51	2787169.94	36	56	8.719 N	107	36	50.749 W
3194.00	14.06	61.67	2923.23	559.08	928.28	2160025.26	2787176.68	36	56	8.756 N	107	36	50.665 W
3226.00	13.69	60.92	2954.29	562.77	935.01	2160028.96	2787183.40	36	56	8.793 N	107	36	50.583 W
3257.00	13.69	58.04	2984.41	566.49	941.33	2160032.70	2787189.71	36	56	8.829 N	107	36	50.505 W
3288.00	13.19	58.04	3014.56	570.30	947.44	2160036.53	2787195.82	36	56	8.867 N	107	36	50.429 W
3319.00	12.63	59.67	3044.78	573.89	953.37	2160040.12	2787201.74	36	56	8.903 N	107	36	50.356 W
3351.00	11.75	58.92	3076.06	577.34	959.18	2160043.58	2787207.54	36	56	8.937 N	107	36	50.285 W
3382.00	11.13	59.17	3106.44	580.50	964.45	2160046.76	2787212.80	36	56	8.968 N	107	36	50.220 W
3413.00	10.75	58.42	3136.88	583.55	969.48	2160049.82	2787217.83	36	56	8.998 N	107	36	50.158 W
3444.00	9.63	59.54	3167.39	586.38	974.18	2160052.66	2787222.52	36	56	9.026 N	107	36	50.100 W
3476.00	8.38	59.17	3198.99	588.93	978.49	2160055.22	2787226.83	36	56	9.051 N	107	36	50.047 W
3507.00	7.94	59.54	3229.68	591.17	982.27	2160057.47	2787230.61	36	56	9.073 N	107	36	50.000 W
3539.00	7.81	60.79	3261.38	593.35	986.08	2160059.66	2787234.40	36	56	9.095 N	107	36	49.954 W
3569.00	7.71	61.21	3291.10	595.32	989.62	2160061.63	2787237.94	36	56	9.114 N	107	36	49.910 W
3600.00	7.44	62.17	3321.83	597.25	993.22	2160063.58	2787241.54	36	56	9.134 N	107	36	49.866 W
3632.00	7.19	64.04	3353.57	599.10	996.85	2160065.43	2787245.16	36	56	9.152 N	107	36	49.821 W
3664.00	7.00	66.17	3385.33	600.76	1000.43	2160067.10	2787248.74	36	56	9.168 N	107	36	49.777 W
3695.00	7.13	65.04	3416.09	602.34	1003.91	2160068.69	2787252.21	36	56	9.184 N	107	36	49.734 W
3726.00	6.94	64.79	3446.86	603.95	1007.34	2160070.30	2787255.65	36	56	9.200 N	107	36	49.692 W
3757.00	6.81	64.54	3477.64	605.53	1010.70	2160071.90	2787259.00	36	56	9.216 N	107	36	49.650 W
3788.00	6.75	63.42	3508.42	607.14	1013.99	2160073.51	2787262.28	36	56	9.231 N	107	36	49.610 W
3819.00	6.63	64.29	3539.21	608.73	1017.23	2160075.11	2787265.52	36	56	9.247 N	107	36	49.570 W
3850.00	6.63	65.92	3570.00	610.24	1020.47	2160076.63	2787268.76	36	56	9.262 N	107	36	49.530 W
3881.00	6.50	66.54	3600.80	611.67	1023.72	2160078.06	2787272.00	36	56	9.276 N	107	36	49.490 W
3912.00	6.44	66.29	3631.60	613.06	1026.92	2160079.47	2787275.20	36	56	9.290 N	107	36	49.450 W
3944.00	6.44	65.04	3663.40	614.54	1030.19	2160080.95	2787278.47	36	56	9.305 N	107	36	49.410 W
3975.00	6.44	66.17	3694.20	615.98	1033.36	2160082.40	2787281.63	36	56	9.319 N	107	36	49.371 W
4007.00	6.31	66.17	3726.00	617.42	1036.61	2160083.84	2787284.88	36	56	9.333 N	107	36	49.331 W
4038.00	6.25	65.17	3756.82	618.81	1039.70	2160085.24	2787287.97	36	56	9.347 N	107	36	49.293 W
4069.00	6.31	65.92	3787.63	620.22	1042.78	2160086.65	2787291.05	36	56	9.361 N	107	36	49.255 W
4101.00	6.30	65.71	3819.44	621.66	1045.99	2160088.10	2787294.25	36	56	9.375 N	107	36	49.215 W
4133.00	6.07	66.28	3851.25	623.06	1049.14	2160089.51	2787297.40	36	56	9.389 N	107	36	49.177 W
4186.00	6.07	66.28	3903.95	625.31	1054.27	2160091.78	2787302.52	36	56	9.411 N	107	36	49.113 W



Weatherford International Ltd.

Survey Report - Geographic



Weatherford

Company: XTO
Field: SAN JUAN CO. NM (NAD 83)
Site: Grassy Canyon #9
Well: #9
Wellpath: 1

Date: 10/27/2009 Time: 10:24:10 Page: 4
Co-ordinate(NE) Reference: Well: #9, True North
Vertical (TVD) Reference: SITE 6733.0
Section (VS) Reference: Well (0.00N,0.00E,59.06Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
4133.00	3851.25	LAST SVY
4186.00	3903.95	PROJ. TO BIT



GRASSY CANYON #9
SAN JUAN CO., NM



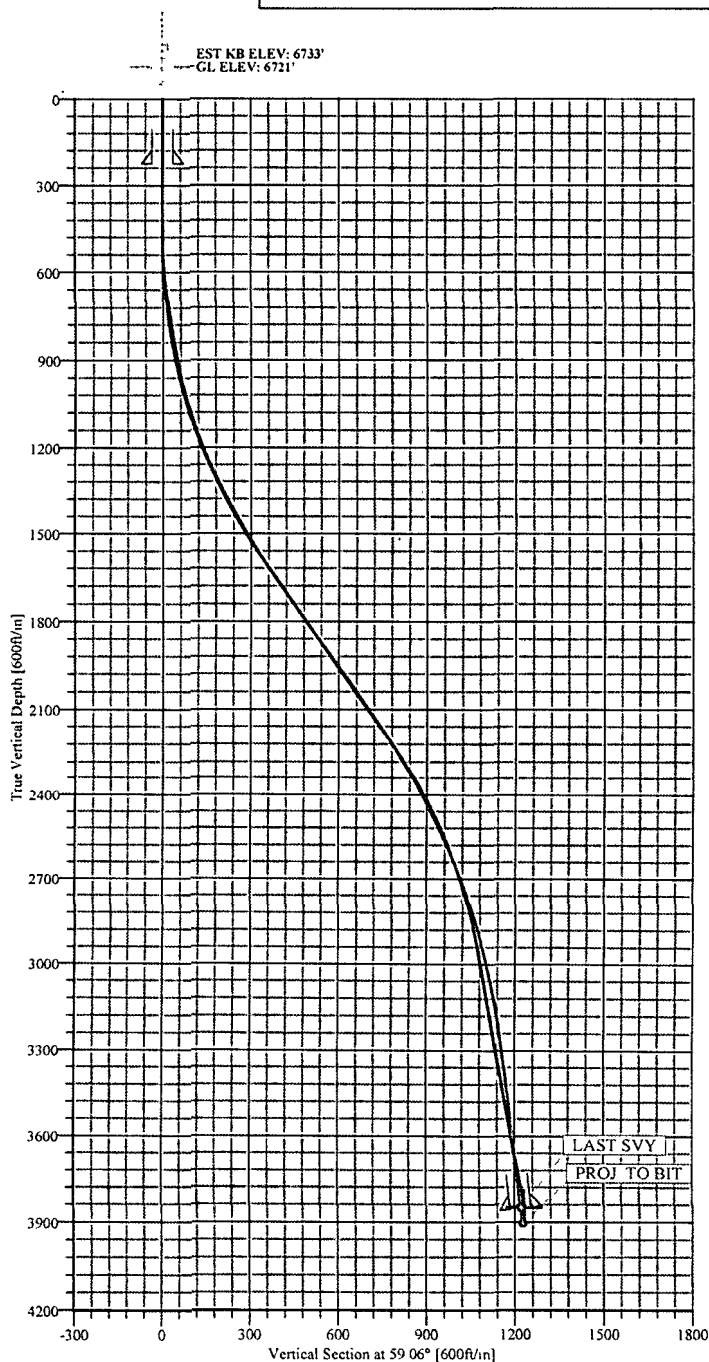
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	59.06	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	59.06	500.00	0.00	0.00	0.00	0.00	0.00	
3	1666.67	35.00	59.06	1595.45	177.59	296.24	3.00	59.06	345.39	
4	2381.98	35.00	59.06	2181.40	388.55	648.14	0.00	0.00	755.68	
5	3215.31	10.00	59.06	2945.21	551.22	919.49	3.00	180.00	1072.06	
6	4134.06	10.00	59.06	3850.00	633.25	1056.33	0.00	0.00	1231.60	PBHL

WELL DETAILS							
Name +N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
#9	0.00	0.00	2159464.08	2786249.67	36°56'03.228N	107°37'02.100W	N/A

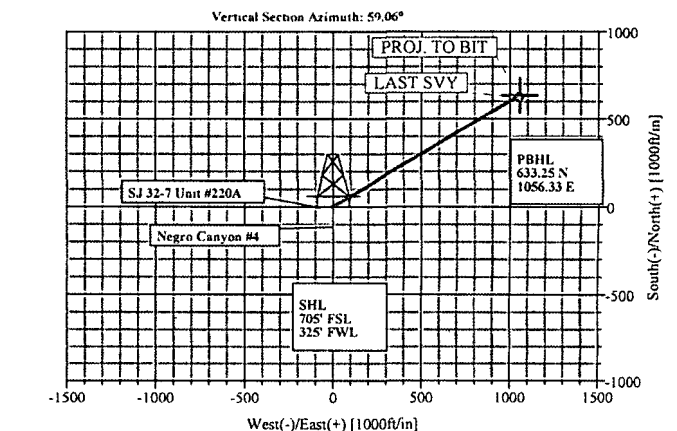
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	3850.00	633.25	1056.33	36°56'09.490N	107°36'49.088W	Point

RCVD MAY 27 '10
OIL CONS. DIV.

DIST. 3



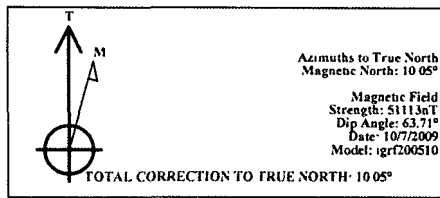
LEGEND	
—	#9.1, Plan #1
—	WFT SVY



Proj. to Bit Survey: WFT SVY (#9/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
125	4186.00	6.07	66.28	3903.95	625.31	1054.27	0.00	0.00	1225.75

SITE DETAILS	
Grassy Canyon #9	
705' FSL & 325' FWL	
Site Centre Latitude: 36°56'03.228N	
Longitude: 107°37'02.100W	
Ground Level: 6721.00	
Positional Uncertainty: 0.00	
Convergence: 0.13	

FIELD DETAILS	
SAN JUAN CO. NM (NAD 83)	
Geodetic System: US State Plane Coordinate System 1983	
Ellipsoid: GRS 1980	
Zone: New Mexico, Western Zone	
Magnetic Model: mgr200510	
System Datum: Mean Sea Level	
Local North: True North	



Survey: WFT SVY (#9/1)	
Created By: Jayme Wilson	Date: 10/27/2009