

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

¹ API Number 30-045-35194	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 306456	⁵ Property Name GARDNER C	⁶ Well Number 5R
⁷ OGRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6581'

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
LOT 12	26	32-N	9-W		1691	SOUTH	1119	WEST	SAN JUAN

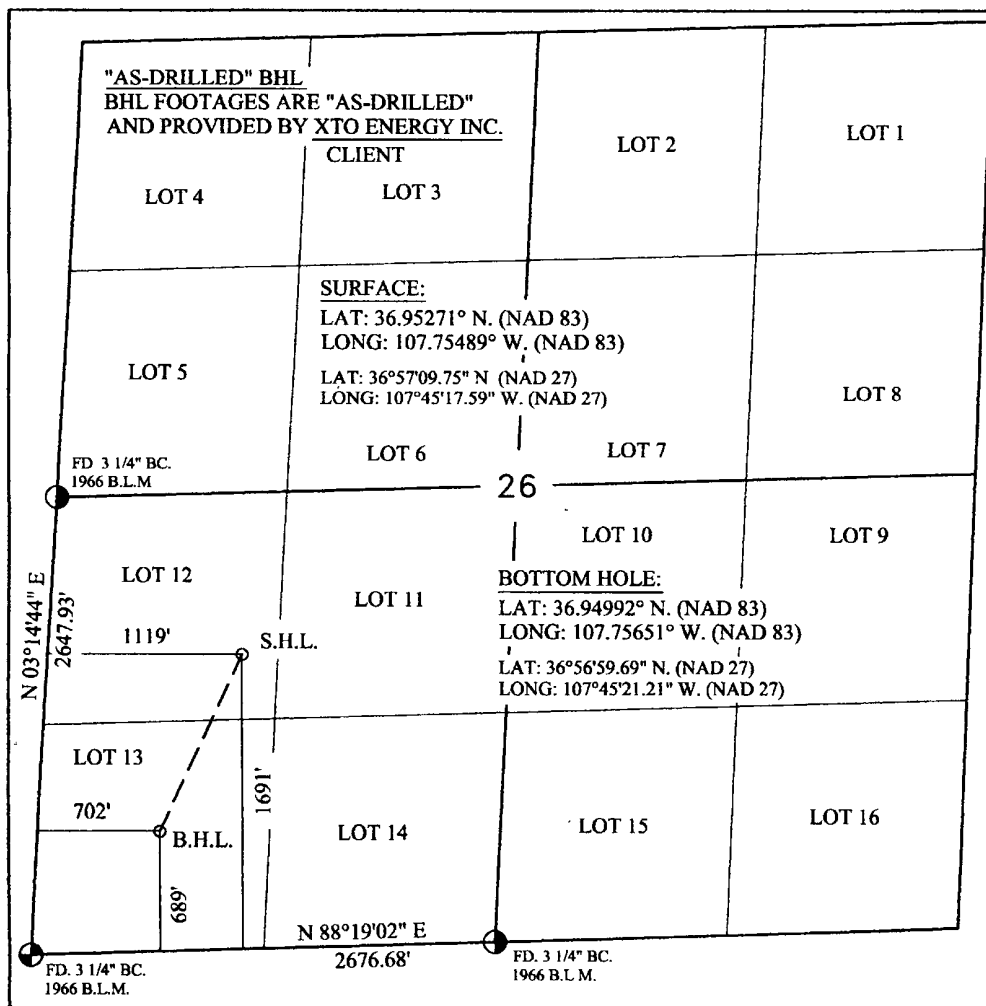
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 13	26	32-N	9-W		689	SOUTH	702	WEST	SAN JUAN

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD JUL 25 '11 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**

16



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.

Dolena C. Johnson
Signature Date

Dolena Johnson 7-25-11
Printed Name

dee-johnson@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.

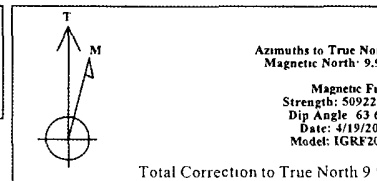
JUL 6, 2011
Date of Survey
Signature and Seal of Professional Surveyor:
[Signature]
8824
7121-
REGISTERED PROFESSIONAL SURVEYOR
Certificate Number

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	205.58	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	205.58	300.00	0.00	0.00	0.00	0.00	0.00	
3	1133.35	25.00	205.58	1107.16	-161.40	-77.27	3.00	205.58	178.95	
4	2838.53	25.00	205.58	2652.57	-811.41	-388.45	0.00	0.00	899.60	
5	3338.55	10.00	205.58	3128.08	-946.64	-453.20	3.00	180.00	1049.53	
6	3919.29	10.00	205.58	3700.00	-1037.60	-496.74	0.00	0.00	1150.38	Pbhl

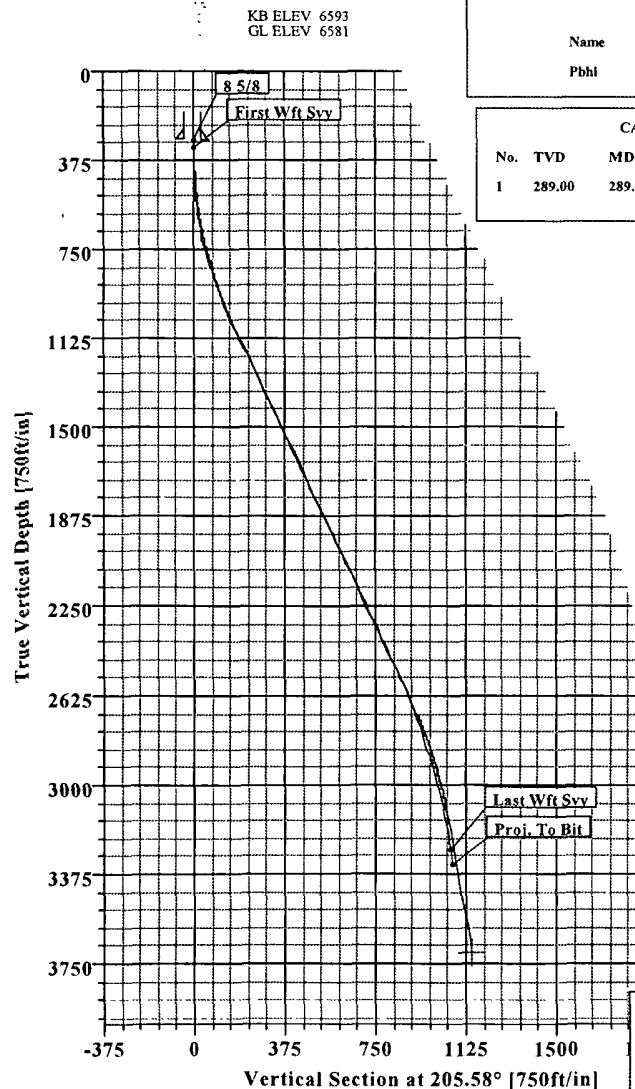
WELL DETAILS							
Name	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot
Gardner C #5R	0.00	0.00	2166129.89	2746017.43	36°57'09.756N	107°45'17.604W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Pbhl	3700.00	-1037.60	-496.74	36°56'59.496N	107°45'23.724W	Point

CASING DETAILS				
No.	TVD	MD	Name	Size
1	289.00	289.00	8 5/8	8.625



LEGEND	
	Gardner C #5R, 1, Plan #1
	Wft Svy

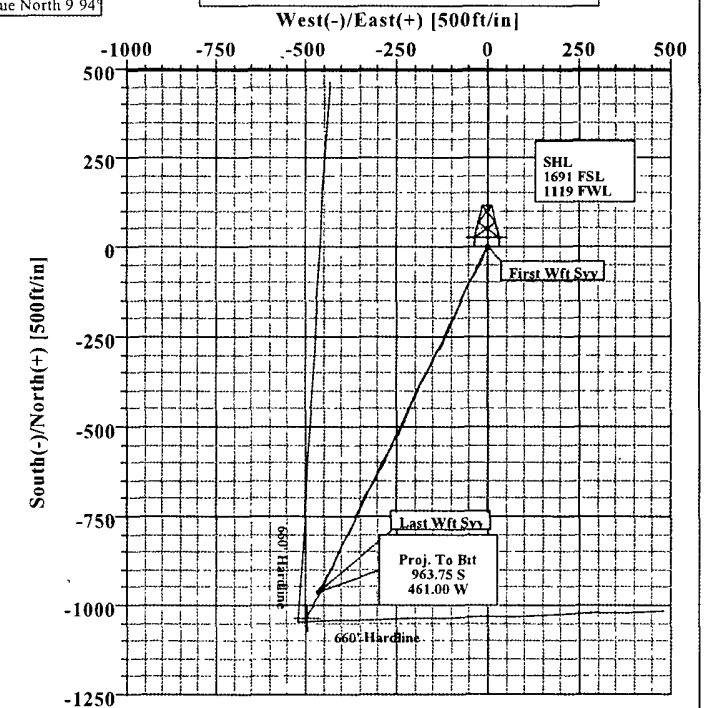


Survey: Wft Svy (Gardner C #5R/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
104	3545.00	7.56	205.19	3335.27	-963.75	-461.00	0.00	0.00	1068.34	

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	
Gardner C #5R	
Site Centre Latitude:	36°57'09.756N
Longitude:	107°45'17.604W
Ground Level:	6581.00
Positional Uncertainty:	0.00
Convergence:	0.05

FORMATION TOP DETAILS			
No	TVDPath	MDPath	Formation
1	1903.00	2013.48	Ojo Alamo SS
2	2019.00	2141.42	Kirtland Shale
3	2874.00	3073.27	Fruitland Formation
4	3045.00	3250.11	Upper Fruitland Coal
5	3150.00	3357.68	Middle Fruitland Coal



ROAD 12.11
01.005.011
00.000.000



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 4/25/2011	Time: 06:53:22	Page: 1
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Gardner C #5R, True North		
Site: Gardner C #5R	Vertical (TVD) Reference: SITE 6593.0		
Well: Gardner C #5R	Section (VS) Reference: Well (0.00N,0.00E,205.58Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 4/25/2011
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: Gardner C #5R

Site Position:	Northing: 2166129.89 ft	Latitude: 36 57 9.756 N
From: Geographic	Easting: 2746017.43 ft	Longitude: 107 45 17.604 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6581.00 ft		Grid Convergence: 0.05 deg

Well: Gardner C #5R	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 2166129.89 ft
+E/-W 0.00 ft	Easting: 2746017.43 ft
Position Uncertainty: 0.00 ft	Latitude: 36 57 9.756 N
	Longitude: 107 45 17.604 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 4/19/2011	Above System Datum: Mean Sea Level
Field Strength: 50922 nT	Declination: 9.94 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.65 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	205.58

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	57	9.756	107	45	17.604	8 5/8 First Wft Sv
289.00	0.41	329.08	289.00	0.88	-0.53	-0.57	0.14	36	57	9.765	107	45	17.610	
320.00	0.45	329.08	320.00	1.08	-0.65	-0.69	0.14	36	57	9.767	107	45	17.612	
352.00	0.30	278.76	352.00	1.20	-0.79	-0.74	1.08	36	57	9.768	107	45	17.614	
383.00	0.88	206.07	382.99	1.00	-0.98	-0.48	2.71	36	57	9.766	107	45	17.616	
415.00	2.19	206.44	414.98	0.23	-1.36	0.38	4.09	36	57	9.758	107	45	17.621	
446.00	3.44	202.44	445.94	-1.16	-1.98	1.90	4.08	36	57	9.745	107	45	17.628	
477.00	4.44	207.19	476.87	-3.09	-2.88	4.03	3.39	36	57	9.725	107	45	17.639	
509.00	5.44	209.07	508.75	-5.52	-4.18	6.78	3.17	36	57	9.701	107	45	17.656	
540.00	6.50	209.44	539.58	-8.33	-5.76	10.00	3.42	36	57	9.674	107	45	17.675	
572.00	7.63	207.69	571.34	-11.79	-7.64	13.93	3.59	36	57	9.639	107	45	17.698	
602.00	8.69	205.82	601.04	-15.59	-9.55	18.19	3.64	36	57	9.602	107	45	17.722	
634.00	9.75	204.69	632.62	-20.23	-11.73	23.31	3.36	36	57	9.556	107	45	17.749	
664.00	10.88	204.82	662.14	-25.11	-13.98	28.68	3.77	36	57	9.508	107	45	17.776	
696.00	12.00	204.69	693.50	-30.87	-16.64	35.03	3.50	36	57	9.451	107	45	17.809	
727.00	13.31	205.19	723.75	-37.03	-19.51	41.82	4.24	36	57	9.390	107	45	17.844	
758.00	14.63	205.32	753.83	-43.80	-22.70	49.30	4.26	36	57	9.323	107	45	17.884	
790.00	15.94	205.19	784.70	-51.43	-26.30	57.74	4.10	36	57	9.247	107	45	17.928	
820.00	16.94	205.32	813.47	-59.10	-29.92	66.23	3.34	36	57	9.172	107	45	17.973	
850.00	17.94	205.07	842.09	-67.24	-33.75	75.22	3.34	36	57	9.091	107	45	18.020	
882.00	18.81	205.07	872.46	-76.38	-38.02	85.31	2.72	36	57	9.001	107	45	18.072	
913.00	19.25	204.82	901.76	-85.54	-42.29	95.42	1.44	36	57	8.910	107	45	18.125	
945.00	20.06	205.07	931.90	-95.30	-46.83	106.18	2.54	36	57	8.814	107	45	18.181	
976.00	20.79	205.19	960.95	-105.10	-51.42	117.00	2.36	36	57	8.717	107	45	18.238	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 4/25/2011	Time: 06:53:22	Page: 2
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Gardner C #5R, True North		
Site: Gardner C #5R	Vertical (TVD) Reference: SITE 6593.0		
Well: Gardner C #5R	Section (VS) Reference: Well (0.00N,0.00E,205.58Azi)		
Wellpath: 1	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
1007.00	21.56	205.69	989.86	-115.21	-56.23	128.19	2.55	36	57	8.617	107	45	18.297	
1038.00	22.50	206.19	1018.59	-125.66	-61.32	139.82	3.09	36	57	8.513	107	45	18.359	
1070.00	23.44	206.32	1048.06	-136.86	-66.84	152.31	2.94	36	57	8.403	107	45	18.428	
1101.00	24.31	205.94	1076.40	-148.13	-72.37	164.85	2.85	36	57	8.291	107	45	18.496	
1132.00	24.94	205.69	1104.58	-159.75	-77.99	177.77	2.06	36	57	8.176	107	45	18.565	
1163.00	25.44	205.94	1132.63	-171.63	-83.74	190.96	1.65	36	57	8.059	107	45	18.636	
1194.00	26.06	205.82	1160.56	-183.75	-89.62	204.43	2.01	36	57	7.939	107	45	18.708	
1225.00	25.69	204.94	1188.45	-195.97	-95.42	217.96	1.72	36	57	7.818	107	45	18.780	
1256.00	25.19	203.82	1216.44	-208.10	-100.91	231.27	2.24	36	57	7.698	107	45	18.847	
1287.00	24.56	202.94	1244.57	-220.07	-106.09	244.30	2.36	36	57	7.580	107	45	18.911	
1319.00	24.63	202.32	1273.66	-232.36	-111.21	257.60	0.84	36	57	7.458	107	45	18.974	
1350.00	24.94	202.19	1301.81	-244.39	-116.13	270.58	1.02	36	57	7.339	107	45	19.035	
1381.00	24.75	203.82	1329.94	-256.38	-121.22	283.59	2.29	36	57	7.221	107	45	19.098	
1413.00	24.31	205.69	1359.05	-268.44	-126.78	296.87	2.79	36	57	7.102	107	45	19.166	
1445.00	24.44	207.94	1388.20	-280.22	-132.74	310.07	2.93	36	57	6.985	107	45	19.239	
1476.00	24.63	205.82	1416.40	-291.71	-138.56	322.94	2.91	36	57	6.872	107	45	19.311	
1508.00	25.19	208.44	1445.42	-303.70	-144.71	336.41	3.87	36	57	6.753	107	45	19.387	
1539.00	24.99	208.63	1473.50	-315.24	-150.99	349.54	0.70	36	57	6.639	107	45	19.464	
1570.00	24.00	208.44	1501.71	-326.54	-157.13	362.37	3.20	36	57	6.527	107	45	19.540	
1602.00	23.50	207.44	1531.00	-337.92	-163.17	375.25	2.01	36	57	6.415	107	45	19.614	
1633.00	23.94	206.07	1559.38	-349.06	-168.78	387.72	2.27	36	57	6.304	107	45	19.683	
1664.00	24.19	204.82	1587.69	-360.47	-174.21	400.36	1.83	36	57	6.192	107	45	19.750	
1695.00	24.63	204.82	1615.92	-372.10	-179.59	413.17	1.42	36	57	6.077	107	45	19.817	
1727.00	25.00	204.94	1644.96	-384.28	-185.24	426.60	1.17	36	57	5.956	107	45	19.886	
1758.00	25.19	204.82	1673.03	-396.21	-190.77	439.74	0.63	36	57	5.838	107	45	19.954	
1789.00	25.63	204.57	1701.04	-408.29	-196.33	453.04	1.46	36	57	5.719	107	45	20.023	
1820.00	25.75	204.69	1728.97	-420.51	-201.93	466.48	0.42	36	57	5.598	107	45	20.092	
1851.00	26.06	204.19	1756.86	-432.84	-207.53	480.02	1.22	36	57	5.476	107	45	20.161	
1883.00	26.25	204.07	1785.58	-445.71	-213.30	494.12	0.62	36	57	5.349	107	45	20.232	
1914.00	26.38	204.19	1813.37	-458.26	-218.91	507.86	0.45	36	57	5.225	107	45	20.301	
1946.00	25.56	204.57	1842.14	-471.02	-224.70	521.87	2.61	36	57	5.098	107	45	20.372	
1976.00	25.50	205.07	1869.21	-482.75	-230.12	534.80	0.75	36	57	4.982	107	45	20.439	
2007.00	25.75	205.07	1897.16	-494.90	-235.81	548.20	0.81	36	57	4.862	107	45	20.509	
2039.00	24.81	205.19	1926.09	-507.27	-241.61	561.87	2.94	36	57	4.740	107	45	20.581	
2071.00	24.75	204.94	1955.15	-519.42	-247.29	575.28	0.38	36	57	4.620	107	45	20.651	
2102.00	24.81	204.57	1983.29	-531.22	-252.73	588.27	0.54	36	57	4.503	107	45	20.718	
2133.00	25.19	204.82	2011.39	-543.12	-258.21	601.37	1.27	36	57	4.385	107	45	20.785	
2164.00	25.56	205.44	2039.40	-555.15	-263.85	614.66	1.47	36	57	4.267	107	45	20.855	
2196.00	25.75	205.19	2068.24	-567.67	-269.77	628.51	0.68	36	57	4.143	107	45	20.928	
2227.00	25.81	205.07	2096.16	-579.88	-275.50	641.99	0.26	36	57	4.022	107	45	20.998	
2259.00	25.19	206.82	2125.04	-592.27	-281.52	655.77	3.05	36	57	3.899	107	45	21.072	
2290.00	25.25	206.57	2153.08	-604.07	-287.46	668.97	0.39	36	57	3.783	107	45	21.146	
2321.00	25.69	207.44	2181.07	-615.94	-293.51	682.30	1.86	36	57	3.665	107	45	21.220	
2353.00	24.88	208.69	2210.01	-628.00	-299.94	695.95	3.03	36	57	3.546	107	45	21.299	
2384.00	24.94	208.94	2238.12	-639.44	-306.23	708.99	0.39	36	57	3.433	107	45	21.377	
2415.00	25.19	209.07	2266.20	-650.93	-312.60	722.10	0.83	36	57	3.319	107	45	21.455	
2446.00	25.06	207.82	2294.27	-662.50	-318.87	735.24	1.76	36	57	3.205	107	45	21.533	
2477.00	25.00	206.94	2322.36	-674.15	-324.90	748.35	1.22	36	57	3.090	107	45	21.607	
2509.00	25.19	206.57	2351.34	-686.27	-331.01	761.92	0.77	36	57	2.970	107	45	21.682	
2540.00	24.52	204.75	2379.47	-698.01	-336.65	774.95	3.28	36	57	2.854	107	45	21.752	
2572.00	24.56	203.94	2408.58	-710.12	-342.13	788.24	1.06	36	57	2.734	107	45	21.819	
2604.00	25.00	203.82	2437.63	-722.38	-347.56	801.64	1.38	36	57	2.613	107	45	21.886	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 4/25/2011	Time: 06:53:22	Page: 3
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Gardner C #5R, True North		
Site: Gardner C #5R	Vertical (TVD) Reference: SITE 6593.0		
Well: Gardner C #5R	Section (VS) Reference: Well (0.00N,0.00E,205.58Azi)		
Wellpath: 1	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
2636.00	25.44	204.07	2466.58	-734.84	-353.10	815.27	1.41	36	57	2.490	107	45	21.954	
2667.00	24.50	205.32	2494.68	-746.73	-358.56	828.36	3.48	36	57	2.372	107	45	22.022	
2699.00	24.44	205.94	2523.81	-758.69	-364.29	841.61	0.82	36	57	2.254	107	45	22.092	
2730.00	24.75	206.19	2551.99	-770.28	-369.96	854.51	1.05	36	57	2.139	107	45	22.162	
2762.00	23.69	205.94	2581.18	-782.07	-375.73	867.64	3.33	36	57	2.023	107	45	22.233	
2794.00	22.50	205.69	2610.61	-793.37	-381.20	880.19	3.73	36	57	1.911	107	45	22.301	
2826.00	21.25	206.19	2640.31	-804.09	-386.41	892.12	3.95	36	57	1.805	107	45	22.365	
2857.00	20.31	205.82	2669.29	-813.97	-391.23	903.11	3.06	36	57	1.707	107	45	22.424	
2889.00	19.31	205.07	2699.40	-823.76	-395.90	913.96	3.22	36	57	1.610	107	45	22.482	
2921.00	18.44	204.44	2729.68	-833.16	-400.23	924.31	2.79	36	57	1.517	107	45	22.535	
2951.00	18.44	204.07	2758.14	-841.82	-404.13	933.80	0.39	36	57	1.432	107	45	22.583	
2983.00	18.68	204.21	2788.47	-851.11	-408.30	943.98	0.76	36	57	1.340	107	45	22.634	
3014.00	18.94	205.19	2817.82	-860.19	-412.47	953.97	1.32	36	57	1.250	107	45	22.686	
3046.00	18.69	204.44	2848.11	-869.56	-416.80	964.29	1.09	36	57	1.158	107	45	22.739	
3077.00	17.81	204.07	2877.55	-878.41	-420.79	974.00	2.86	36	57	1.070	107	45	22.788	
3107.00	16.63	204.07	2906.20	-886.52	-424.41	982.87	3.93	36	57	0.990	107	45	22.833	
3139.00	15.13	205.07	2936.98	-894.48	-428.05	991.63	4.76	36	57	0.911	107	45	22.878	
3171.00	13.81	207.57	2967.96	-901.65	-431.59	999.62	4.56	36	57	0.840	107	45	22.921	
3202.00	12.94	206.94	2998.12	-908.02	-434.87	1006.79	2.85	36	57	0.777	107	45	22.962	
3233.00	13.00	206.69	3028.33	-914.23	-438.01	1013.75	0.26	36	57	0.716	107	45	23.000	
3265.00	13.00	206.94	3059.51	-920.66	-441.26	1020.94	0.18	36	57	0.652	107	45	23.040	
3296.00	13.00	206.94	3089.72	-926.88	-444.42	1027.91	0.00	36	57	0.591	107	45	23.079	
3328.00	12.25	205.44	3120.94	-933.15	-447.51	1034.91	2.56	36	57	0.529	107	45	23.117	
3359.00	11.31	203.57	3151.29	-938.91	-450.14	1041.23	3.27	36	57	0.472	107	45	23.150	
3391.00	9.56	201.19	3182.76	-944.26	-452.35	1047.02	5.63	36	57	0.419	107	45	23.177	
3422.00	8.31	202.44	3213.38	-948.73	-454.14	1051.82	4.08	36	57	0.375	107	45	23.199	
3453.00	7.81	204.19	3244.08	-952.72	-455.86	1056.17	1.80	36	57	0.335	107	45	23.220	
3485.00	7.56	205.19	3275.79	-956.61	-457.64	1060.44	0.89	36	57	0.297	107	45	23.242	Last Wft Svy
3545.00	7.56	205.19	3335.27	-963.75	-461.00	1068.34	0.00	36	57	0.226	107	45	23.284	Proj. To Bit

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
289.00	289.00	8.625	12.250	8 5/8

Annotation

MD ft	TVD ft	
320.00	320.00	First Wft Svy
3485.00	3275.79	Last Wft Svy
3545.00	3335.27	Proj. To Bit

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2013.48	1903.00	Ojo Alamo SS		0.00	0.00
2141.42	2019.00	Kirtland Shale		0.00	0.00
3073.27	2874.00	Fruitland Formation		0.00	0.00
3250.11	3045.00	Upper Fruitland Coal		0.00	0.00
3357.68	3150.00	Middle Fruitland Coal		0.00	0.00
	0.00	Lower Fruitland Coal		0.00	0.00
	0.00	Pictured Cliffs SS		0.00	0.00