

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34773		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 022723	*Property Name GINTHER		*Well Number 21H
*OCRD No. 5380	*Operator Name XTO ENERGY INC.		*Elevation 5835

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
A	13	27-N	13-W		1215	NORTH	1220	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
P	13	27-N	13-W		755	SOUTH	1577	EAST	SAN JUAN

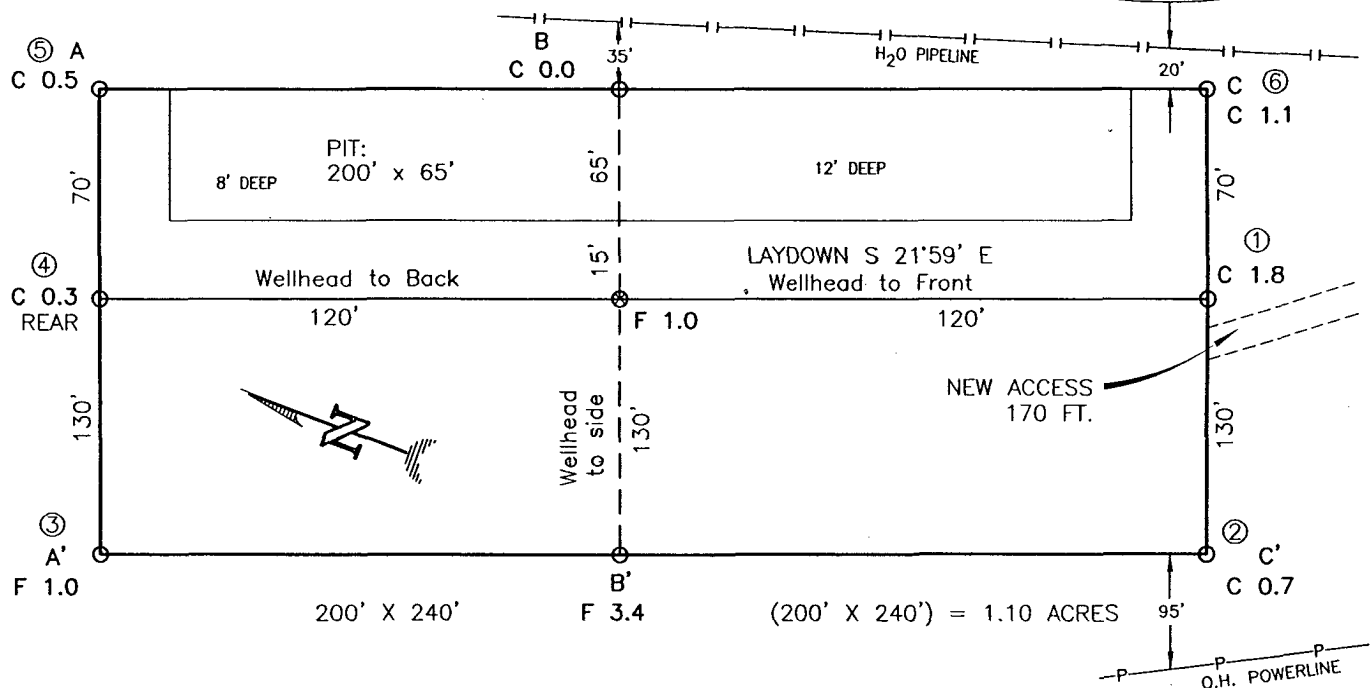
*Dedicated Acres 3.24	*Joint or Infill	*Consolidation Code	*Order No. RCVD OCT 19 10 OIL CONS. DIV.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION **DIST. 3**

FD. 2 1/2" BC. 1911 G.L.O.	S 89-58-15 W 5285.30' (M)	FD. 3 1/4" BC. 1911 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 undivided 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> 10-6-10 Signature Date <i>Teena M. Whiting</i> Printed Name
LAT: 36.57918° N. (NAD 83) LONG: 108.16571° W. (NAD 83) LAT: 36°34'45.0" N. (NAD 27) LONG: 108°09'54.3" W. (NAD 27)	1215'	S 00-02-22 W 2642.07' (M)	
13			
FD. 2 1/2" BC. 1911 G.L.O.	13 BOTTOM HOLE: LAT: 36.57008° N. (NAD 83) LONG: 108.16403° W. (NAD 83) LAT: 36°34'12.3" N. (NAD 27) LONG: 108°09'48.2" W. (NAD 27)	FD. 2 1/2" BC. 1911 G.L.O.	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. SEPTEMBER 16, 2010 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor: Certificate Number
B.H.L. B.H.L. FOOTAGES ARE AS-DRILLED AND PROVIDED BY XTO ENERGY INC. CLIENT	S 89-55-14 W 2736.20' (M)	FD. 3 1/4" BC. 1911 G.L.O.	

XTO ENERGY INC.
 GINTHER No. 21H, 1215 FNL 1220 FEL
 SECTION 13, T27N, R13W, N.M.P.M., SAN JUAN COUNTY, N.M.
 GROUND ELEVATION: 5835' DATE: DECEMBER 13, 2007

NAD 83
 LAT. = 36.57918° N
 LONG. = 108.16571° W
 NAD 27
 LAT. = 36°34'45.0" N
 LONG. = 108°09'54.3" W



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

ELEV. A-A'

C/L

5840					
5830					
5820					
5810					

ELEV. B-B'

C/L

5840					
5830					
5820					
5810					

ELEV. C-C'

C/L

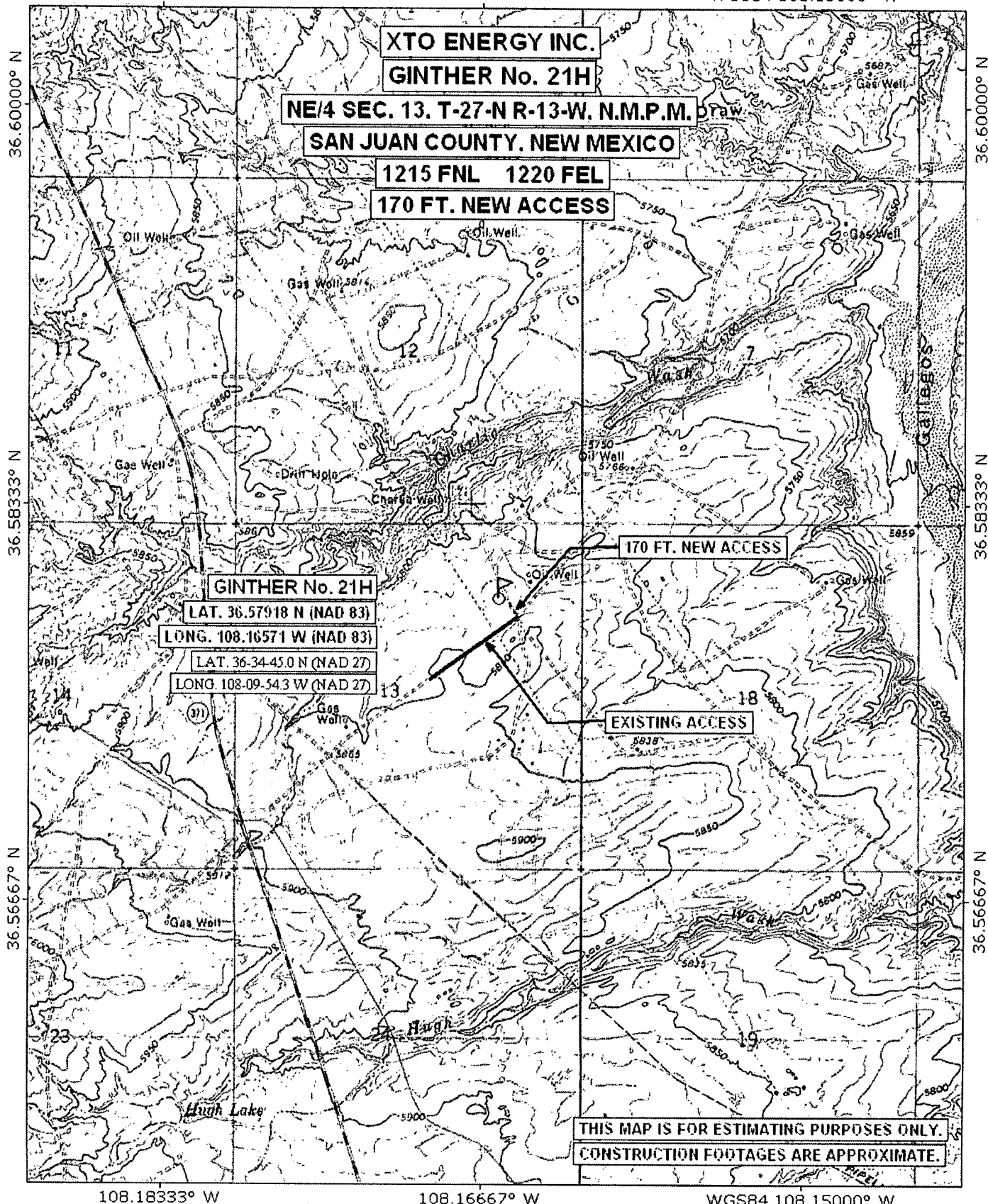
5840					
5830					
5820					
5810					

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION:	DATE:	REVISION BY:	DATE:
NAME CHANGE	9/16/10	G.V.	
REMOVED CONSTRUCTION ZONE	3/21/08	G.V.	

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 510 Farmington, NM 87499
 Phone (505) 326-1772 • Fax (505) 326-6019
 NEW MEXICO L.S. No. 8894

DRAWN BY: G.V.
 ROW#: CR939
 DATE: 12/20/07



TN MN
100%

XTO ENERGY

Ginther #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
 Ginther #21H
 Site Centre Latitude: 36°34'45.048"N
 Longitude: 108°09'56.556"W
 Ground Level: 5835.00
 Positional Uncertainty: 0.00
 Convergence: -0.20

FORMATION TOP DETAILS
 No. TVDPath MDPath Formation
 1 737.00 756.79 Fruitland Formation

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	171.42	0.00	0.00	0.00	0.00	0.00	0.00	
2	282.17	0.00	171.42	282.17	0.00	0.00	0.00	0.00	0.00	
3	1788.83	90.40	171.42	1237.07	-950.84	143.39	6.00	171.42	961.60	
4	4234.60	90.40	171.42	1220.00	-3369.20	508.10	0.00	0.00	3407.30	PBHL

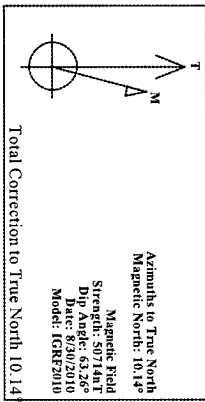
WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
Ginther #21H	0.00	0.00	2030303.62	2625507.83	36°34'45.048"N	108°09'56.556"W	N/A

TARGET DETAILS

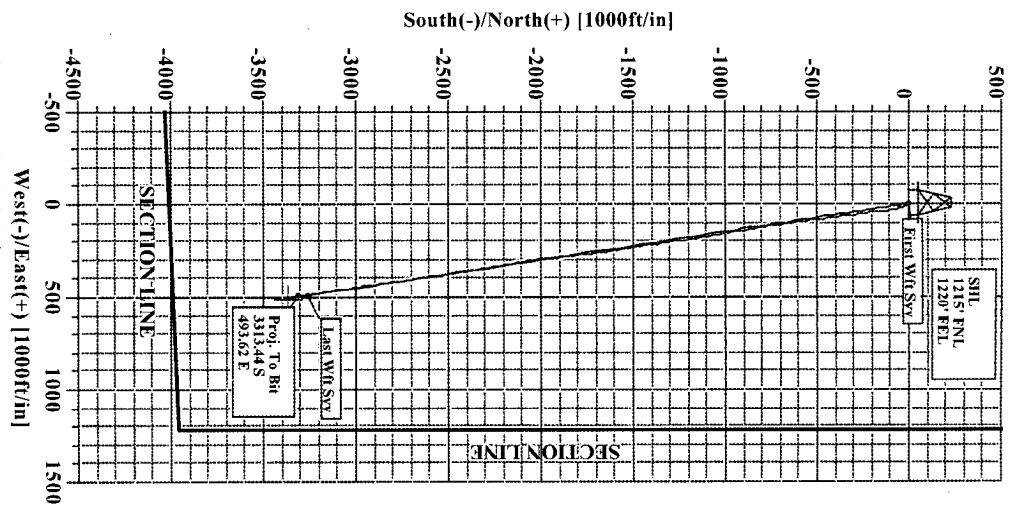
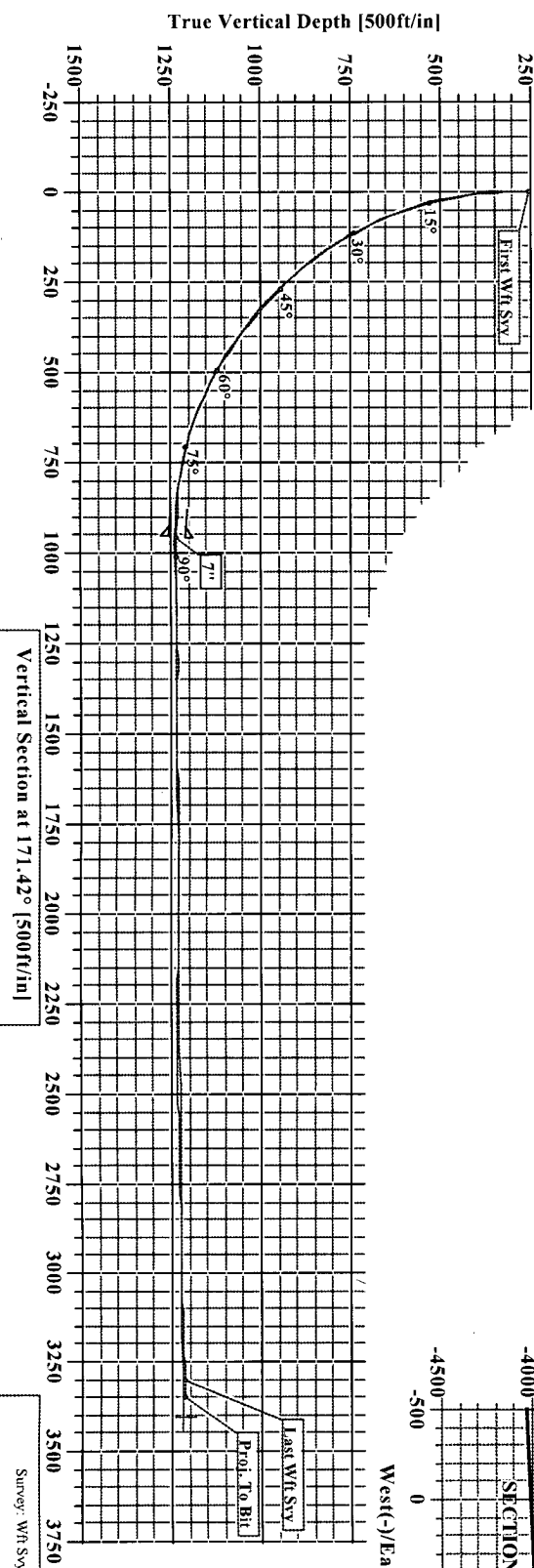
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	1220.00	-3369.20	508.10	36°34'11.731"N	108°09'50.327"W	Point

LEGEND
 — Ginther #21H, Horizontal Plan #1
 — Well Svy



Survey: Well Svy (Ginther #21H/Horizontal)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
129	4180.00	92.05	171.47	1212.73	-3313.44	493.62	0.00	0.00	3350.00





Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: XTO Date: 9/13/2010 Time: 06:58:03 Page: 1
Field: San Juan, NM (NAD 83) Co-ordinate(NE) Reference: Well: Ginther #21H, True North
Site: Ginther #21H Vertical (TVD) Reference: SITE 5847.0
Well: Ginther #21H Section (VS) Reference: Well (0.00N,0.00E,171.42Azi)
Wellpath: Horizontal Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 9/6/2010
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: Ginther #21H

Site Position: Northing: 2030303.62 ft Latitude: 36 34 45.048 N
From: Geographic Easting: 2625507.83 ft Longitude: 108 9 56.556 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 5835.00 ft Grid Convergence: -0.20 deg

Well: Ginther #21H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 2030303.62 ft Latitude: 36 34 45.048 N
+E/-W 0.00 ft Easting: 2625507.83 ft Longitude: 108 9 56.556 W
Position Uncertainty: 0.00 ft

Wellpath: Horizontal Drilled From: Surface
Current Datum: SITE Height 5847.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 8/30/2010 Above System Datum: Mean Sea Level
Field Strength: 50714 nT Declination: 10.14 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 63.26 deg
ft ft +E/-W Direction
deg
0.00 0.00 0.00 171.42

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	34	45.048	108	9	56.556	First Wft Svy
255.00	0.30	140.25	255.00	-0.51	0.43	0.57	0.12	36	34	45.043	108	9	56.551	
286.00	0.70	135.67	286.00	-0.71	0.61	0.79	1.30	36	34	45.041	108	9	56.549	
317.00	2.00	145.30	316.99	-1.29	1.05	1.43	4.24	36	34	45.035	108	9	56.543	
347.00	3.44	149.64	346.95	-2.50	1.80	2.74	4.85	36	34	45.023	108	9	56.534	
378.00	4.88	147.27	377.87	-4.41	2.99	4.81	4.68	36	34	45.004	108	9	56.519	
409.00	6.25	148.14	408.72	-6.95	4.59	7.56	4.43	36	34	44.979	108	9	56.500	
440.00	7.81	149.52	439.49	-10.20	6.55	11.06	5.06	36	34	44.947	108	9	56.476	
470.00	10.13	148.14	469.12	-14.20	8.98	15.38	7.77	36	34	44.908	108	9	56.446	
501.00	12.44	150.89	499.52	-19.43	12.04	21.01	7.65	36	34	44.856	108	9	56.408	
532.00	14.75	154.27	529.65	-25.91	15.38	27.91	7.88	36	34	44.792	108	9	56.367	
562.00	16.80	157.64	558.52	-33.36	18.69	35.77	7.48	36	34	44.718	108	9	56.327	
593.00	18.88	160.27	588.03	-42.22	22.08	45.04	7.19	36	34	44.630	108	9	56.285	
623.00	20.88	163.14	616.24	-51.91	25.27	55.10	7.42	36	34	44.535	108	9	56.246	
654.00	23.13	165.39	644.98	-63.09	28.41	66.62	7.75	36	34	44.424	108	9	56.208	
684.00	25.06	168.39	672.37	-75.02	31.18	78.83	7.62	36	34	44.306	108	9	56.174	
715.00	27.00	170.89	700.22	-88.40	33.61	92.42	7.19	36	34	44.174	108	9	56.144	
746.00	29.00	173.64	727.59	-102.82	35.56	106.97	7.68	36	34	44.031	108	9	56.120	
756.79	29.67	174.20	737.00	-108.07	36.12	112.25	6.74	36	34	43.979	108	9	56.113	
776.00	30.88	175.14	753.59	-117.72	37.02	121.92	6.74	36	34	43.884	108	9	56.102	
807.00	32.63	174.89	779.95	-133.97	38.44	138.20	5.66	36	34	43.723	108	9	56.085	Fruitland Fo
838.00	34.31	175.02	805.80	-151.00	39.94	155.26	5.42	36	34	43.555	108	9	56.066	
868.00	35.94	174.77	830.34	-168.19	41.48	172.49	5.45	36	34	43.385	108	9	56.047	
899.00	37.75	174.10	855.15	-186.69	43.28	191.06	5.98	36	34	43.202	108	9	56.025	



Weatherford International Ltd.

WFT Survey Report Lat, Long



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

Date: 9/13/2010 Time: 06:58:03 Page: 2
Co-ordinate(NE) Reference: Well: Ginther #21H, True North
Vertical (TVD) Reference: SITE 5847.0
Section (VS) Reference: Well (0.00N,0.00E,171.42Azi)
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
930.00	39.94	172.52	879.29	-206.00	45.55	210.49	7.75	36	34	43.011	108	9	55.997	
961.00	41.81	172.27	902.73	-226.10	48.24	230.77	6.06	36	34	42.812	108	9	55.965	
992.00	43.76	171.76	925.48	-246.96	51.16	251.82	6.39	36	34	42.606	108	9	55.929	
1024.00	45.19	171.39	948.31	-269.13	54.45	274.24	4.54	36	34	42.387	108	9	55.888	
1056.00	46.56	171.39	970.59	-291.84	57.89	297.21	4.28	36	34	42.162	108	9	55.846	
1086.00	48.01	172.42	990.94	-313.66	60.99	319.25	5.45	36	34	41.946	108	9	55.808	
1117.00	49.69	172.52	1011.34	-336.81	64.05	342.59	5.42	36	34	41.717	108	9	55.771	
1149.00	51.75	172.64	1031.60	-361.37	67.25	367.35	6.44	36	34	41.475	108	9	55.731	
1181.00	53.50	173.34	1051.02	-386.61	70.35	392.77	5.74	36	34	41.225	108	9	55.693	
1212.00	55.16	173.69	1069.10	-411.63	73.19	417.94	5.43	36	34	40.977	108	9	55.659	
1242.00	56.69	173.52	1085.91	-436.32	75.96	442.77	5.12	36	34	40.733	108	9	55.625	
1273.00	58.25	173.52	1102.58	-462.29	78.91	468.89	5.03	36	34	40.477	108	9	55.589	
1304.00	60.06	172.64	1118.47	-488.71	82.12	495.49	6.33	36	34	40.215	108	9	55.549	
1347.00	63.00	172.14	1138.97	-526.17	87.13	533.28	6.91	36	34	39.845	108	9	55.488	
1378.00	64.94	171.52	1152.57	-553.74	91.09	561.13	6.51	36	34	39.572	108	9	55.439	
1408.00	66.56	171.89	1164.89	-580.81	95.03	588.49	5.52	36	34	39.304	108	9	55.391	
1439.00	68.81	172.52	1176.66	-609.22	98.92	617.16	7.50	36	34	39.024	108	9	55.343	
1470.00	70.88	172.64	1187.34	-638.08	102.68	646.25	6.69	36	34	38.738	108	9	55.297	
1501.00	72.75	172.27	1197.02	-667.27	106.54	675.70	6.14	36	34	38.449	108	9	55.250	
1531.00	74.56	172.01	1205.46	-695.79	110.48	704.48	6.09	36	34	38.167	108	9	55.201	
1562.00	76.80	171.79	1213.13	-725.52	114.71	734.52	7.26	36	34	37.873	108	9	55.150	
1593.00	79.25	171.14	1219.56	-755.51	119.21	764.84	8.17	36	34	37.577	108	9	55.094	
1623.00	83.00	170.77	1224.18	-784.78	123.87	794.47	12.56	36	34	37.287	108	9	55.037	
1654.00	87.19	170.27	1226.83	-815.23	128.96	825.35	13.61	36	34	36.986	108	9	54.975	
1684.00	87.56	171.02	1228.21	-844.80	133.83	855.32	2.79	36	34	36.694	108	9	54.915	
1702.00	86.06	171.64	1229.21	-862.57	136.54	873.29	9.02	36	34	36.518	108	9	54.882	
1731.00	86.00	171.89	1231.22	-891.20	140.68	902.22	0.88	36	34	36.235	108	9	54.831	
1769.00	85.94	169.14	1233.89	-928.59	146.93	940.11	7.22	36	34	35.865	108	9	54.755	
1785.00	86.19	170.52	1234.99	-944.30	149.75	956.07	8.75	36	34	35.710	108	9	54.720	
1816.00	88.31	171.02	1236.47	-974.86	154.72	987.03	7.03	36	34	35.408	108	9	54.659	
1846.00	90.70	171.17	1236.73	-1004.49	159.36	1017.03	7.98	36	34	35.115	108	9	54.602	
1877.00	90.19	171.27	1236.49	-1035.13	164.09	1048.03	1.68	36	34	34.812	108	9	54.544	
1908.00	90.44	170.64	1236.32	-1065.74	168.96	1079.02	2.19	36	34	34.509	108	9	54.484	
1939.00	90.88	170.14	1235.97	-1096.31	174.14	1110.02	2.15	36	34	34.207	108	9	54.421	
1969.00	91.88	170.52	1235.24	-1125.87	179.18	1140.00	3.57	36	34	33.914	108	9	54.359	
2000.00	91.31	171.02	1234.38	-1156.46	184.15	1170.99	2.45	36	34	33.612	108	9	54.298	
2031.00	91.50	170.89	1233.62	-1187.06	189.02	1201.98	0.74	36	34	33.309	108	9	54.239	
2061.00	91.56	171.89	1232.82	-1216.71	193.51	1231.97	3.34	36	34	33.016	108	9	54.183	
2092.00	91.31	172.02	1232.04	-1247.40	197.85	1262.96	0.91	36	34	32.713	108	9	54.130	
2123.00	90.31	172.52	1231.60	-1278.11	202.01	1293.95	3.61	36	34	32.409	108	9	54.079	
2154.00	89.56	172.52	1231.64	-1308.85	206.05	1324.94	2.42	36	34	32.105	108	9	54.030	
2184.00	88.69	172.39	1232.10	-1338.59	209.99	1354.93	2.93	36	34	31.811	108	9	53.981	
2215.00	87.95	171.90	1233.01	-1369.28	214.22	1385.92	2.86	36	34	31.507	108	9	53.930	
2246.00	89.06	171.64	1233.82	-1399.95	218.66	1416.91	3.68	36	34	31.204	108	9	53.875	
2275.00	89.63	171.64	1234.15	-1428.64	222.88	1445.90	1.97	36	34	30.920	108	9	53.823	
2306.00	89.81	171.39	1234.30	-1459.30	227.45	1476.90	0.99	36	34	30.617	108	9	53.767	
2337.00	90.38	170.89	1234.25	-1489.93	232.22	1507.90	2.45	36	34	30.314	108	9	53.709	
2368.00	91.19	170.52	1233.82	-1520.52	237.23	1538.90	2.87	36	34	30.012	108	9	53.647	
2398.00	91.69	170.39	1233.07	-1550.10	242.20	1568.88	1.72	36	34	29.719	108	9	53.587	
2429.00	92.44	170.02	1231.95	-1580.63	247.47	1599.86	2.70	36	34	29.417	108	9	53.522	
2460.00	92.06	170.64	1230.73	-1611.16	252.68	1630.83	2.34	36	34	29.116	108	9	53.458	
2490.00	91.63	171.52	1229.77	-1640.78	257.33	1660.81	3.26	36	34	28.823	108	9	53.401	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: XTO	Date: 9/13/2010	Time: 06:58:03	Page: 3
Field: San Juan, NM (NAD 83)	Co-ordinate(NE) Reference: Well: Ginther #21H, True North		
Site: Ginther #21H	Vertical (TVD) Reference: SITE 5847.0		
Well: Ginther #21H	Section (VS) Reference: Well (0.00N,0.00E,171.42Azi)		
Wellpath: Horizontal	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
2520.00	90.94	172.39	1229.10	-1670.48	261.52	1690.80	3.70	36	34	28.529	108	9	53.350	
2549.00	90.00	173.27	1228.86	-1699.25	265.14	1719.79	4.44	36	34	28.244	108	9	53.305	
2580.00	88.81	174.39	1229.18	-1730.07	268.47	1750.76	5.27	36	34	27.940	108	9	53.264	
2610.00	88.50	174.52	1229.88	-1759.92	271.37	1780.71	1.12	36	34	27.644	108	9	53.229	
2640.00	88.88	174.39	1230.57	-1789.77	274.27	1810.66	1.34	36	34	27.349	108	9	53.193	
2670.00	89.31	174.27	1231.04	-1819.62	277.23	1840.62	1.49	36	34	27.054	108	9	53.157	
2701.00	89.69	174.27	1231.31	-1850.46	280.33	1871.58	1.23	36	34	26.749	108	9	53.119	
2732.00	90.25	174.14	1231.33	-1881.31	283.46	1902.54	1.85	36	34	26.444	108	9	53.081	
2762.00	90.69	174.14	1231.08	-1911.15	286.52	1932.51	1.47	36	34	26.149	108	9	53.043	
2792.00	91.19	174.14	1230.59	-1940.99	289.58	1962.47	1.67	36	34	25.854	108	9	53.006	
2823.00	91.13	173.27	1229.96	-1971.79	292.98	1993.44	2.81	36	34	25.549	108	9	52.964	
2853.00	90.63	172.64	1229.50	-2001.56	296.66	2023.42	2.68	36	34	25.255	108	9	52.919	
2884.00	88.88	172.02	1229.64	-2032.28	300.80	2054.42	5.99	36	34	24.951	108	9	52.868	
2914.00	88.63	171.64	1230.29	-2061.97	305.06	2084.41	1.52	36	34	24.658	108	9	52.816	
2945.00	89.00	171.39	1230.93	-2092.63	309.63	2115.40	1.44	36	34	24.354	108	9	52.760	
2976.00	88.75	170.89	1231.54	-2123.25	314.41	2146.40	1.80	36	34	24.052	108	9	52.701	
3005.00	88.56	170.77	1232.22	-2151.87	319.03	2175.39	0.77	36	34	23.768	108	9	52.645	
3037.00	89.19	170.52	1232.85	-2183.44	324.23	2207.38	2.12	36	34	23.456	108	9	52.581	
3069.00	90.38	170.14	1232.97	-2214.99	329.60	2239.37	3.90	36	34	23.144	108	9	52.515	
3101.00	91.19	169.39	1232.53	-2246.47	335.29	2271.35	3.45	36	34	22.833	108	9	52.445	
3133.00	90.38	169.89	1232.09	-2277.95	341.04	2303.33	2.97	36	34	22.522	108	9	52.375	
3165.00	90.19	169.89	1231.93	-2309.45	346.66	2335.32	0.59	36	34	22.210	108	9	52.306	
3197.00	89.63	170.39	1231.98	-2340.98	352.14	2367.31	2.35	36	34	21.898	108	9	52.239	
3229.00	89.75	170.02	1232.15	-2372.51	357.58	2399.31	1.22	36	34	21.587	108	9	52.172	
3260.00	90.19	170.64	1232.17	-2403.07	362.79	2430.30	2.45	36	34	21.284	108	9	52.108	
3292.00	89.56	171.39	1232.24	-2434.68	367.79	2462.30	3.06	36	34	20.972	108	9	52.047	
3324.00	90.31	172.02	1232.28	-2466.34	372.41	2494.30	3.06	36	34	20.659	108	9	51.990	
3355.00	91.25	172.64	1231.85	-2497.06	376.54	2525.29	3.63	36	34	20.355	108	9	51.940	
3387.00	91.44	172.39	1231.10	-2528.78	380.71	2557.28	0.98	36	34	20.041	108	9	51.889	
3421.00	91.13	172.02	1230.34	-2562.46	385.32	2591.27	1.42	36	34	19.708	108	9	51.832	
3452.00	91.00	172.14	1229.76	-2593.16	389.59	2622.26	0.57	36	34	19.405	108	9	51.780	
3483.00	91.19	172.02	1229.17	-2623.85	393.86	2653.25	0.72	36	34	19.101	108	9	51.727	
3513.00	91.13	171.76	1228.57	-2653.55	398.09	2683.24	0.89	36	34	18.808	108	9	51.675	
3544.00	91.05	171.88	1227.98	-2684.23	402.50	2714.24	0.47	36	34	18.504	108	9	51.621	
3575.00	91.13	171.39	1227.39	-2714.89	407.01	2745.23	1.60	36	34	18.201	108	9	51.566	
3606.00	91.31	171.27	1226.73	-2745.53	411.68	2776.22	0.70	36	34	17.898	108	9	51.509	
3636.00	91.19	171.14	1226.07	-2775.17	416.27	2806.22	0.59	36	34	17.605	108	9	51.453	
3665.00	91.31	171.27	1225.44	-2803.82	420.70	2835.21	0.61	36	34	17.321	108	9	51.398	
3695.00	90.69	172.02	1224.91	-2833.50	425.06	2865.20	3.24	36	34	17.028	108	9	51.345	
3725.00	90.44	172.02	1224.62	-2863.21	429.23	2895.20	0.83	36	34	16.734	108	9	51.294	
3755.00	90.50	171.89	1224.37	-2892.91	433.42	2925.20	0.48	36	34	16.440	108	9	51.242	
3786.00	90.69	172.02	1224.05	-2923.60	437.76	2956.20	0.74	36	34	16.137	108	9	51.189	
3816.00	90.50	172.02	1223.74	-2953.31	441.93	2986.19	0.63	36	34	15.843	108	9	51.138	
3847.00	91.00	171.89	1223.33	-2984.00	446.27	3017.19	1.67	36	34	15.540	108	9	51.085	
3877.00	91.44	172.27	1222.70	-3013.71	450.40	3047.18	1.94	36	34	15.246	108	9	51.034	
3907.00	91.63	172.14	1221.89	-3043.42	454.47	3077.17	0.77	36	34	14.952	108	9	50.984	
3938.00	91.88	172.14	1220.94	-3074.12	458.70	3108.15	0.81	36	34	14.649	108	9	50.932	
3969.00	91.81	172.02	1219.94	-3104.81	462.97	3139.13	0.45	36	34	14.345	108	9	50.880	
3998.00	91.81	171.89	1219.03	-3133.51	467.03	3168.11	0.45	36	34	14.061	108	9	50.830	
4029.00	91.94	171.64	1218.01	-3164.17	471.47	3199.10	0.91	36	34	13.758	108	9	50.776	
4060.00	91.94	171.77	1216.96	-3194.83	475.94	3230.08	0.42	36	34	13.455	108	9	50.721	
4090.00	92.00	171.52	1215.93	-3224.49	480.29	3260.06	0.86	36	34	13.162	108	9	50.668	
4131.00	92.05	171.47	1214.48	-3265.02	486.35	3301.04	0.17	36	34	12.761	108	9	50.594	Last Wft Svy



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: XTO Date: 9/13/2010 Time: 06:58:03 Page: 4
Field: San Juan, NM (NAD 83) Co-ordinate(NE) Reference: Well: Ginther #21H, True North
Site: Ginther #21H Vertical (TVD) Reference: SITE 5847.0
Well: Ginther #21H Section (VS) Reference: Well (0.00N,0.00E,171.42Azi)
Wellpath: Horizontal 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
4180.00	92.05	171.47	1212.73	-3313.44	493.62	3350.00	0.00	36	34	12.282	108	9	50.504	Proj. To Bit

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
225.00	225.00	9.625	12.250	9 5/8"
1788.00	1235.18	7.000	8.500	7"
4234.60	0.00	4.500	4.500	4 1/2"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
756.79	737.00	Fruitland Formation		0.00	0.00
	0.00	Lower Fruitland Coal		0.00	0.00
	0.00	Base Lower Coal		0.00	0.00
	0.00	Pictured Cliffs SS		0.00	0.00