

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

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

"AS DRILLED"

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35028		² Pool Code 71629	³ Pool Name Basin FRUITLAND COAL
⁴ Property Code 038006	⁵ Property Name VALENTINE		⁶ Well Number 21H
⁷ GRID No. 5380	⁸ Operator Name XTO ENERGY, INC.		⁹ Elevation 6682

¹⁰ Surface Location

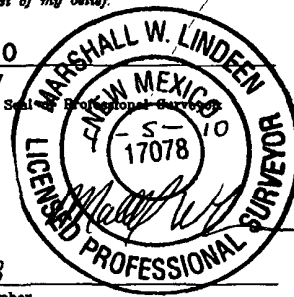
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	21	25 N	10 W		1941	SOUTH	407	WEST	SAN JUAN

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
P	21	25 N	10 W		701	SOUTH	673	EAST	SAN JUAN

¹² Dedicated Acres S/2, 320 AC±	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD APR 27 '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

¹⁶ N 89°49'00" E 2635.23' N 89°53'54" E 2631.42' 2631.77' N 0°09'47" E O = SURFACE LOCATION (AS DRILLED) ● = BOTTOM HOLE LOCATION (TAKEN FROM DRILL LOG PROVIDED BY DRILLER)		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. Signature <u>Dolena C Johnson</u> Date <u>04-12-10</u> Printed Name <u>Dolena Johnson</u> Reg. Compliance Tech.	
SECTION 21 LAT: 36.384633° N LONG: 107.909499° W NAD 83 LAT: 36.384623° N LONG: 107.908880° W NAD 27 1349 Start Lateral 1662		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. 3/23/10 Date of Survey Signature and Seal of Registered Surveyor  17078 Certificate Number	
407' 2631.25' N 0°06'32" W 1941'	LAT: 36.381226° N LONG: 107.895260° W NAD 83 LAT: 36.381216° N LONG: 107.894641° W NAD 27 701	2640.50' S 0°04'29" E 2641.93' S 0°00'55" W	673 2636.71'

10 4/28



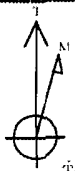
Valentine #21
San Juan Co., New Mexico

SITE DETAILS

Valentine #21
1938' TSI 410' FWI of Sec 21, T25N, R10W

Site Centre Latitude: 36°23'04.650N
Longitude: 107°54'34.160W

Ground Level: 6682.00
Positional Uncertainty: 0.00
Convergence: -0.05



Azimuths to True North
Magnetic North 10.08°

Magnetic Field
Strength: 5069 nT
Dip Angle: 64.16°
Date: 1/20/2010
Model: IGRF2010

Total Correction to True North 10.08°

SECTION DETAILS

Sec	MD	Inc	Az	TVD	+N/-S	+E/-W	Dip deg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	718.08	0.00	0.00	718.08	0.00	0.00	0.00	0.00	0.00	
3	2214.71	89.80	106.57	1673.00	-271.30	912.06	6.00	106.57	951.56	
4	5610.40	89.80	106.57	1685.00	-1239.43	4166.80	0.00	0.00	4347.23	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude	Slot
#21	0.00	0.00	1959318.40	2700681.10	36°23'04.650N	107°54'34.160W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Pbhl	1685.00	-1239.43	4166.80	36°22'52.390N	107°53'43.200W	Point

CASING DETAILS

No.	TVD	MD	Name	Size
1	1673.00	2214.71	7" / I p	0.000
2	1685.00	5610.40	4 1/2" / Pbhl	0.000

LEGEND

= #21, L Plan #1
Well Sys

FIELD DETAILS

San Juan, NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983

Ellipsoid: GRS 1980

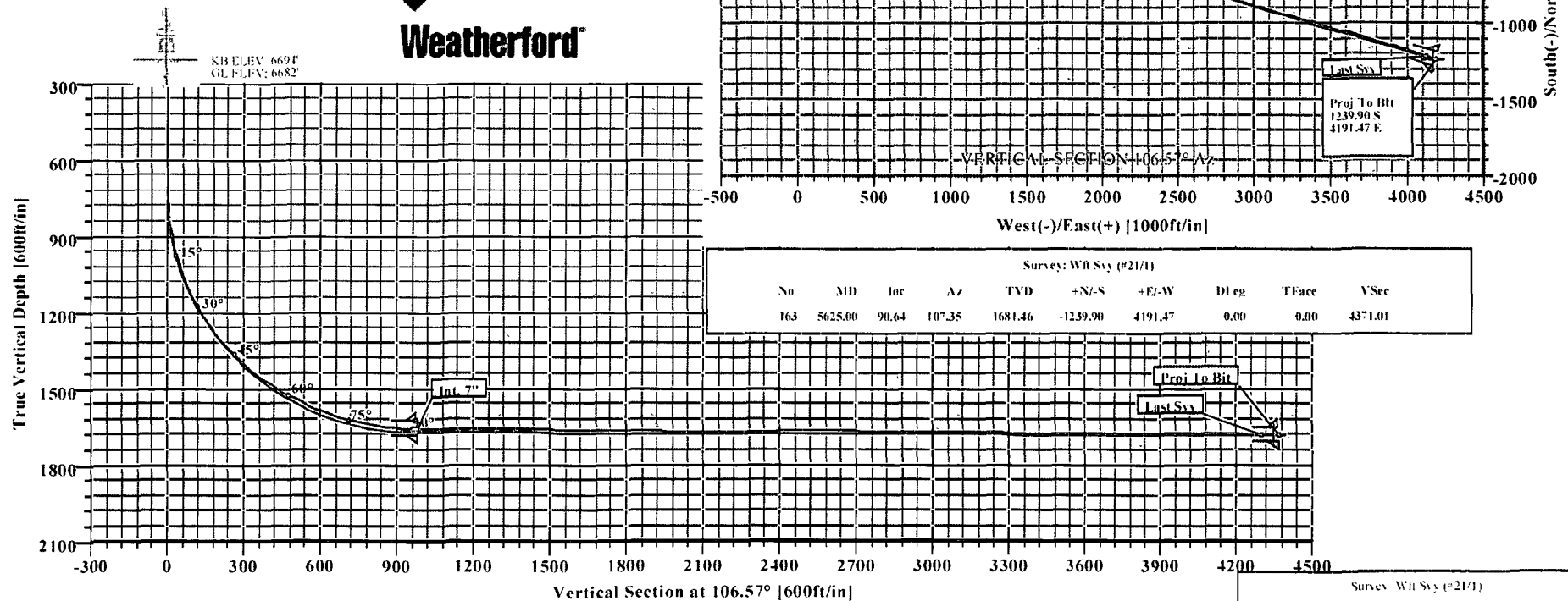
Zone: New Mexico, Western Zone

Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: True North

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	767.00	767.06	Ojo Alamo SS
2	920.00	921.37	Kirtland Shale
3	1236.00	1266.90	Fruitland Fm
4	1668.00	2939.68	Lower Fruitland Coal



Survey: Well Sys (#21/1)

Created By: Russell W. Losner

Date: 3/22/2010

Weatherford International Ltd.

Survey Report - Geographic



Weatherford

Company: XTO		Date: 3/19/2010		Time: 11:24:39		Page: 1	
Field: San Juan, NM (NAD 83)		Co-ordinate(NE) Reference:		Well: #21, True North			
Site: Valentine #21		Vertical (TVD) Reference:		SITE 6694 0			
Well: #21		Section (VS) Reference:		Well (0.00N,0.00E,106.57Azi)			
Wellpath: 1		Survey Calculation Method:		Minimum Curvature		Db: Sybase	

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: Valentine #21			
1938' FSL 410' FWL of Sec 21, T25N, R10W			
Site Position:	Northing: 1959318 40 ft	Latitude: 36 23 4.650 N	
From: Geographic	Easting: 2700681 10 ft	Longitude: 107 54 34.160 W	
Position Uncertainty: 0 00 ft		North Reference: True	
Ground Level: 6682 00 ft		Grid Convergence: -0.05 deg	

Well: #21				Slot Name:			
Well Position:	+N/-S 0.00 ft	Northing: 1959318.40 ft	Latitude: 36 23 4.650 N				
	+E/-W 0.00 ft	Easting: 2700681 10 ft	Longitude: 107 54 34 160 W				
Position Uncertainty: 0 00 ft							

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0 00 ft	
Magnetic Data: 1/20/2010		Above System Datum: Mean Sea Level	
Field Strength: 50697 nT		Declination: 10.08 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 63.16 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0 00	0.00	0 00	106 57

Survey: Wft Svy		Start Date: 2/28/2010	
Company: Weatherford International Ltd		Engineer: Russell W Joyner	
Tool: MWD,MWD - Standard		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	1959318.40	2700681.10	36	23	4 650 N	107	54	34 160 W
354 00	0 15	312 52	354 00	0 31	-0.34	1959318 71	2700680.76	36	23	4.653 N	107	54	34.164 W
637 00	0 50	277 70	636 99	0 73	-1.84	1959319 13	2700679 27	36	23	4 657 N	107	54	34 182 W
669 00	0 23	301.21	668 99	0 78	-2.03	1959319.18	2700679 07	36	23	4 658 N	107	54	34 185 W
701 00	0 93	95.15	700 99	0 79	-1 83	1959319 19	2700679 28	36	23	4 658 N	107	54	34 182 W
733.00	2.13	98.21	732 98	0 68	-0 98	1959319 08	2700680 12	36	23	4 657 N	107	54	34 172 W
765 00	3.44	100 33	764 94	0 43	0.55	1959318.83	2700681 66	36	23	4 654 N	107	54	34.153 W
796.00	4 69	101.46	795 86	0 01	2 71	1959318 41	2700683 81	36	23	4 650 N	107	54	34.127 W
828 00	6 13	101.58	827.72	-0 60	5.67	1959317 80	2700686.77	36	23	4.644 N	107	54	34.091 W
859 00	7.75	102.58	858 49	-1 38	9.33	1959317 01	2700690.43	36	23	4.636 N	107	54	34.046 W
890 00	9 47	104.04	889.14	-2 46	13 84	1959315.93	2700694 94	36	23	4 626 N	107	54	33 991 W
922.00	11 19	104.71	920 62	-3 88	19.40	1959314 50	2700700 50	36	23	4 612 N	107	54	33.923 W
953.00	13 19	105.21	950 92	-5 58	25.72	1959312 80	2700706 82	36	23	4.595 N	107	54	33.845 W
985 00	15 38	105.21	981 93	-7 65	33.34	1959310 73	2700714.44	36	23	4 574 N	107	54	33.752 W
1016 00	17.46	105.51	1011 66	-9 97	41.79	1959308 40	2700722 89	36	23	4.551 N	107	54	33 649 W
1046 00	19 50	105.21	1040.12	-12.49	50.96	1959305.87	2700732.05	36	23	4 527 N	107	54	33.537 W
1075.00	21.81	105.58	1067 25	-15 20	60.82	1959303.15	2700741 91	36	23	4 500 N	107	54	33.416 W
1105 00	23.75	106 46	1094 91	-18 41	71 98	1959299 93	2700753 07	36	23	4 468 N	107	54	33 280 W
1135.00	25.63	107 46	1122 16	-22 07	83 97	1959296 26	2700765 05	36	23	4.432 N	107	54	33 133 W
1165.00	27 81	107.58	1148 96	-26 13	96.83	1959292 19	2700777 91	36	23	4 392 N	107	54	32.976 W
1196.00	29.88	107.57	1176.11	-30 65	111.09	1959287 66	2700792 17	36	23	4.347 N	107	54	32.801 W
1226 00	32.13	107.33	1201 82	-35 28	125.83	1959283.02	2700806 90	36	23	4.301 N	107	54	32.621 W
1256 00	33.88	107.21	1226.98	-40.13	141.43	1959278.16	2700822 50	36	23	4 253 N	107	54	32 430 W

Weatherford International Ltd.

Survey Report - Geographic



Weatherford

Company: XTO Field: San Juan, NM (NAD 83) Site: Valentine #21 Well: #21 Wellpath: 1	Date: 3/19/2010 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 11 24:39 Well: #21, True North SITE 6694 0 Well (0.00N,0.00E,106.57Azi) Minimum Curvature	Page: 2 Db: Sybase
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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	
1286 00	35 63	106 58	1251 63	-45 10	157.80	1959273 18	2700838 86	36 23	4 204 N	107 54	32 230 W
1316 00	37.31	106 21	1275 75	-50 13	174 90	1959268 13	2700855 97	36 23	4 154 N	107 54	32.021 W
1347 00	39.25	106 46	1300 09	-55 53	193 33	1959262 71	2700874 39	36 23	4 101 N	107 54	31 795 W
1377 00	41.34	107 04	1322 97	-61 13	211.91	1959257 11	2700892 96	36 23	4 045 N	107 54	31 568 W
1407 00	43 19	107 33	1345 17	-67 09	231 18	1959251 13	2700912.23	36 23	3 987 N	107 54	31.333 W
1436 00	44.75	107.83	1366.04	-73.17	250 38	1959245.03	2700931 42	36 23	3 926 N	107 54	31.098 W
1466 00	46.94	107.71	1386 94	-79 74	270.87	1959238 45	2700951 91	36 23	3.861 N	107 54	30 847 W
1496 00	49 61	107 89	1406 90	-86 58	292.19	1959231.59	2700973 22	36 23	3 794 N	107 54	30.586 W
1526 00	51 13	107 83	1426 03	-93 67	314 18	1959224 48	2700995 21	36 23	3 724 N	107 54	30.317 W
1557 00	52 75	107 71	1445 14	-101 12	337 42	1959217 02	2701018 45	36 23	3 650 N	107 54	30.033 W
1587 00	54 13	107 58	1463 01	-108 42	360 38	1959209.69	2701041.40	36 23	3.578 N	107 54	29 752 W
1616 00	55 69	107.21	1479 68	-115 52	383.03	1959202 58	2701064 04	36 23	3 508 N	107 54	29.475 W
1647 00	57 19	106 96	1496 82	-123 11	407.72	1959194 97	2701088.73	36 23	3 433 N	107 54	29 173 W
1677 00	58 81	106 46	1512 72	-130 42	432 09	1959187.64	2701113 09	36 23	3 360 N	107 54	28.875 W
1707 00	60 25	105 96	1527 93	-137 64	456 92	1959180 40	2701137 91	36 23	3 289 N	107 54	28 572 W
1737 00	61.94	105 58	1542 43	-144 77	482 19	1959173.25	2701163 18	36 23	3 218 N	107 54	28.263 W
1767 00	63.25	105.58	1556 24	-151.93	507 84	1959166.07	2701188 83	36 23	3 148 N	107 54	27 949 W
1798 00	64 81	105.58	1569 81	-159 41	534.69	1959158 57	2701215 67	36 23	3 073 N	107 54	27.621 W
1828 00	66 94	105.33	1582 07	-166 71	561 08	1959151 25	2701242 05	36 23	3.001 N	107 54	27.298 W
1858 00	69 50	105.46	1593 21	-174 10	587.93	1959143 84	2701268 90	36 23	2 928 N	107 54	26.969 W
1888 00	71.66	106.31	1603.18	-181.85	615.14	1959136.07	2701296 10	36 23	2 852 N	107 54	26.637 W
1920 00	72 75	106 71	1612.96	-190 51	644.35	1959127.39	2701325 31	36 23	2 766 N	107 54	26.279 W
1952 00	74.13	106 71	1622 08	-199 32	673 73	1959118 55	2701354 68	36 23	2 679 N	107 54	25 920 W
1983 00	76 19	106 58	1630 02	-207 91	702 44	1959109 94	2701383 38	36 23	2 594 N	107 54	25.569 W
2015 00	78 56	106 58	1637 01	-216 82	732 37	1959101.01	2701413 30	36 23	2 506 N	107 54	25 203 W
2047 00	79 88	106.71	1643 00	-225 82	762.48	1959091 98	2701443 41	36 23	2 417 N	107 54	24.834 W
2078 00	81 31	106.33	1648 06	-234 52	791.80	1959083 26	2701472.72	36 23	2 331 N	107 54	24.476 W
2110 00	83 56	106 58	1652 28	-243 50	822.22	1959074.25	2701503 14	36 23	2 242 N	107 54	24.104 W
2142 00	84.25	106.58	1655 67	-252 58	852 72	1959065 15	2701533 62	36 23	2 152 N	107 54	23 731 W
2174 00	85.75	106.21	1658 46	-261.58	883.30	1959056 13	2701564 20	36 23	2 063 N	107 54	23 357 W
2183 00	86.27	106 15	1659.09	-264 08	891 92	1959053 62	2701572.82	36 23	2.038 N	107 54	23.251 W
2212 00	89 83	105 83	1660 08	-272 06	919 78	1959045 61	2701600 67	36 23	1 959 N	107 54	22 911 W
2235 00	90 49	107.65	1660 01	-278 69	941.81	1959038 97	2701622 69	36 23	1 894 N	107 54	22.641 W
2236 00	90.52	107.73	1660 00	-278 99	942.76	1959038 67	2701623 64	36 23	1 891 N	107 54	22.630 W
2265 00	91.06	104.33	1659 60	-287 00	970.62	1959030.64	2701651.50	36 23	1 812 N	107 54	22.289 W
2296 00	90.03	103.34	1659 31	-294 41	1000.72	1959023 20	2701681 59	36 23	1 738 N	107 54	21 921 W
2327 00	90 50	103 08	1659 16	-301.49	1030 90	1959016.09	2701711.77	36 23	1 668 N	107 54	21.552 W
2357 00	90.25	103.71	1658.97	-308.44	1060.08	1959009.12	2701740 94	36 23	1 600 N	107 54	21 195 W
2386 00	89 88	104.33	1658 93	-315 47	1088.22	1959002 07	2701769 07	36 23	1 530 N	107 54	20.851 W
2417 00	88.94	104.96	1659 25	-323 31	1118 21	1958994 21	2701799.06	36 23	1 453 N	107 54	20.484 W
2447 00	89 25	104.58	1659.73	-330 95	1147.22	1958986.54	2701828.06	36 23	1 377 N	107 54	20.129 W
2477 00	90.06	104.46	1659 91	-338 48	1176 26	1958979 00	2701857 09	36 23	1 302 N	107 54	19.774 W
2507 00	90 81	105 58	1659.68	-346 25	1205 23	1958971 20	2701886 06	36 23	1 226 N	107 54	19 420 W
2536 00	91 06	105 89	1659 21	-354 11	1233 14	1958963 32	2701913 96	36 23	1 148 N	107 54	19 078 W
2567 00	90 06	106 08	1658 90	-362 65	1262.94	1958954.76	2701943.76	36 23	1 063 N	107 54	18.714 W
2596 00	89.31	105.83	1659 06	-370.62	1290 82	1958946.76	2701971.63	36 23	0 985 N	107 54	18.373 W
2627 00	88 80	105.43	1659.57	-378 97	1320.67	1958938.39	2702001 48	36 23	0 902 N	107 54	18.008 W
2658 00	89 38	105 21	1660 07	-387 16	1350.57	1958930.17	2702031 36	36 23	0.821 N	107 54	17.642 W
2688 00	89.19	105.33	1660 44	-395 06	1379.50	1958922 25	2702060 30	36 23	0 743 N	107 54	17.288 W
2719 00	87.94	105.58	1661 22	-403 32	1409 37	1958913.97	2702090 16	36 23	0 661 N	107 54	16.923 W
2750 00	88 63	105.71	1662 15	-411.68	1439.21	1958905.59	2702119 99	36 23	0 578 N	107 54	16.558 W
2781 00	88.50	106.21	1662 92	-420 20	1469.01	1958897 05	2702149 78	36 23	0 494 N	107 54	16.194 W

Weatherford International Ltd.

Survey Report - Geographic



Weatherford

Company: XTO
Field: San Juan, NM (NAD 83)
Site: Valentine #21
Well: #21
Wellpath: 1

Date: 3/19/2010 Time: 11:24:39 Page: 3
Co-ordinate(NE) Reference: Well: #21, True North
Vertical (TVD) Reference: SITE 6694 0
Section (VS) Reference: Well (0.00N,0.00E, 106 57Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wrt 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	
2812.00	88.87	106.37	1663.63	-428.89	1498.75	1958888.33	2702179.52	36	23	0 408 N	107 54 15 830 W
2843.00	87.94	107.08	1664.50	-437.81	1528.43	1958879.39	2702209.19	36	23	0 320 N	107 54 15.467 W
2872.00	87.94	107.08	1665.54	-446.32	1556.13	1958870.85	2702236.89	36	23	0 236 N	107 54 15.128 W
2903.00	87.88	106.71	1666.67	-455.32	1585.78	1958861.83	2702266.52	36	23	0 147 N	107 54 14.765 W
2933.00	87.88	106.83	1667.78	-463.97	1614.48	1958853.15	2702295.22	36	23	0 061 N	107 54 14.414 W
2963.00	89.89	107.17	1668.36	-472.74	1643.16	1958844.36	2702323.89	36	22	59 974 N	107 54 14.064 W
2994.00	90.63	107.21	1668.22	-481.90	1672.78	1958835.18	2702353.50	36	22	59 884 N	107 54 13.701 W
3024.00	91.38	107.21	1667.70	-490.78	1701.43	1958826.28	2702382.15	36	22	59.796 N	107 54 13.351 W
3054.00	90.44	107.96	1667.22	-499.84	1730.02	1958817.20	2702410.73	36	22	59.706 N	107 54 13.001 W
3087.00	90.81	108.08	1666.86	-510.05	1761.40	1958806.96	2702442.10	36	22	59 605 N	107 54 12.617 W
3119.00	89.88	108.33	1666.67	-520.05	1791.80	1958796.94	2702472.49	36	22	59 507 N	107 54 12.246 W
3151.00	89.25	107.58	1666.91	-529.91	1822.24	1958787.05	2702502.93	36	22	59.409 N	107 54 11.873 W
3183.00	87.13	107.08	1667.92	-539.44	1852.77	1958777.50	2702533.45	36	22	59 315 N	107 54 11.500 W
3215.00	87.06	106.71	1669.54	-548.73	1883.35	1958768.19	2702564.02	36	22	59 223 N	107 54 11.126 W
3246.00	87.93	106.56	1670.90	-557.59	1913.02	1958759.30	2702593.69	36	22	59 135 N	107 54 10.763 W
3278.00	88.63	106.58	1671.86	-566.71	1943.68	1958750.16	2702624.34	36	22	59 045 N	107 54 10.388 W
3310.00	89.06	106.21	1672.50	-575.74	1974.37	1958741.10	2702655.02	36	22	58 956 N	107 54 10.013 W
3341.00	89.63	106.21	1672.86	-584.40	2004.14	1958732.42	2702684.78	36	22	58 870 N	107 54 9.649 W
3373.00	90.19	106.08	1672.91	-593.29	2034.88	1958723.50	2702715.51	36	22	58 782 N	107 54 9.273 W
3405.00	90.81	106.08	1672.63	-602.16	2065.62	1958714.62	2702746.25	36	22	58.694 N	107 54 8.897 W
3437.00	90.88	107.21	1672.16	-611.32	2096.28	1958705.43	2702776.90	36	22	58 604 N	107 54 8.522 W
3469.00	91.38	107.08	1671.52	-620.75	2126.85	1958695.97	2702807.46	36	22	58.510 N	107 54 8.148 W
3501.00	92.19	107.21	1670.53	-630.18	2157.41	1958686.52	2702838.02	36	22	58 417 N	107 54 7.774 W
3532.00	90.75	107.83	1669.73	-639.51	2186.97	1958677.17	2702867.56	36	22	58 325 N	107 54 7.413 W
3564.00	89.81	107.96	1669.58	-649.34	2217.42	1958667.31	2702898.01	36	22	58 228 N	107 54 7.040 W
3595.00	90.25	107.83	1669.56	-658.87	2246.92	1958657.76	2702927.50	36	22	58.133 N	107 54 6.680 W
3627.00	91.00	107.71	1669.21	-668.64	2277.39	1958647.97	2702957.96	36	22	58 037 N	107 54 6.307 W
3659.00	91.09	107.74	1668.63	-678.38	2307.86	1958638.21	2702988.43	36	22	57 940 N	107 54 5.934 W
3691.00	91.25	108.21	1667.97	-688.25	2338.30	1958628.31	2703018.86	36	22	57 843 N	107 54 5.562 W
3723.00	91.00	107.21	1667.35	-697.98	2368.77	1958618.55	2703049.33	36	22	57 747 N	107 54 5.189 W
3755.00	91.56	107.08	1666.63	-707.41	2399.34	1958609.10	2703079.89	36	22	57 653 N	107 54 4.815 W
3787.00	90.81	107.08	1665.97	-716.81	2429.92	1958599.68	2703110.46	36	22	57 560 N	107 54 4.441 W
3819.00	90.19	107.33	1665.69	-726.27	2460.49	1958590.19	2703141.02	36	22	57 467 N	107 54 4.068 W
3852.00	89.00	107.08	1665.92	-736.03	2492.01	1958580.40	2703172.54	36	22	57 370 N	107 54 3.682 W
3884.00	88.10	107.00	1666.73	-745.41	2522.60	1958571.00	2703203.11	36	22	57 277 N	107 54 3.308 W
3916.00	88.50	106.83	1667.68	-754.71	2553.20	1958561.67	2703233.71	36	22	57 185 N	107 54 2.934 W
3948.00	89.00	106.83	1668.38	-763.98	2583.82	1958552.39	2703264.32	36	22	57 094 N	107 54 2.559 W
3980.00	88.31	106.96	1669.13	-773.27	2614.43	1958543.06	2703294.93	36	22	57 002 N	107 54 2.185 W
4012.00	88.50	106.83	1670.02	-782.57	2645.04	1958533.74	2703325.53	36	22	56 910 N	107 54 1.811 W
4045.00	88.88	106.46	1670.78	-792.02	2676.65	1958524.27	2703357.13	36	22	56 816 N	107 54 1.424 W
4077.00	89.63	106.46	1671.19	-801.09	2707.33	1958515.18	2703387.81	36	22	56 727 N	107 54 1.049 W
4109.00	90.20	106.42	1671.24	-810.14	2738.03	1958506.10	2703418.49	36	22	56 637 N	107 54 0.673 W
4141.00	88.69	106.33	1671.55	-819.16	2768.73	1958497.05	2703449.18	36	22	56 548 N	107 54 0.298 W
4173.00	89.06	106.21	1672.18	-828.13	2799.44	1958488.07	2703479.89	36	22	56 459 N	107 53 59 922 W
4205.00	89.88	106.33	1672.47	-837.09	2830.16	1958479.08	2703510.60	36	22	56 370 N	107 53 59 547 W
4237.00	90.56	106.33	1672.35	-846.09	2860.86	1958470.06	2703541.30	36	22	56 281 N	107 53 59 171 W
4270.00	91.25	106.21	1671.83	-855.33	2892.54	1958460.79	2703572.97	36	22	56 190 N	107 53 58 784 W
4302.00	91.13	106.46	1671.17	-864.33	2923.24	1958451.76	2703603.66	36	22	56 101 N	107 53 58 408 W
4334.00	91.88	106.58	1670.33	-873.43	2953.91	1958442.64	2703634.32	36	22	56 011 N	107 53 58 033 W
4366.00	90.63	106.46	1669.62	-882.53	2984.58	1958433.52	2703664.99	36	22	55 921 N	107 53 57 658 W
4398.00	89.77	106.49	1669.51	-891.60	3015.26	1958424.42	2703695.66	36	22	55 831 N	107 53 57 283 W
4430.00	89.00	106.33	1669.86	-900.64	3045.96	1958415.36	2703726.35	36	22	55 742 N	107 53 56 907 W
4462.00	87.56	106.33	1670.82	-909.63	3076.65	1958406.34	2703757.04	36	22	55 653 N	107 53 56 532 W

Weatherford International Ltd.

Survey Report - Geographic



Weatherford

Company: XTO Field: San Juan, NM (NAD 83) Site: Valentine #21 Well: #21 Wellpath: 1	Date: 3/19/2010 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 11:24:39 Well: #21, True North SITE: 6694 0 Well (0.00N,0.00E,106.57Azi): Minimum Curvature	Page: 4 Db: Sybase
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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	
4494.00	86.75	105.71	1672.41	-918.45	3107.37	1958397.50	2703787.75	36	22	55 566 N	107 53 56 156 W
4525.00	87.31	105.33	1674.01	-926.74	3137.20	1958389.19	2703817.57	36	22	55 484 N	107 53 55.792 W
4557.00	88.06	105.33	1675.30	-935.19	3168.04	1958380.71	2703848.40	36	22	55 400 N	107 53 55 414 W
4588.00	88.88	105.46	1676.13	-943.42	3197.91	1958372.46	2703878.27	36	22	55 319 N	107 53 55 049 W
4620.00	89.63	105.46	1676.55	-951.95	3228.75	1958363.91	2703909.11	36	22	55 234 N	107 53 54.672 W
4651.00	89.19	105.58	1676.87	-960.24	3258.62	1958355.59	2703938.97	36	22	55 152 N	107 53 54.307 W
4683.00	89.64	105.65	1677.19	-968.85	3289.44	1958346.95	2703969.78	36	22	55 067 N	107 53 53.930 W
4715.00	90.44	105.46	1677.17	-977.43	3320.27	1958338.35	2704000.60	36	22	54 982 N	107 53 53.553 W
4747.00	91.19	105.46	1676.72	-985.96	3351.11	1958329.80	2704031.43	36	22	54 898 N	107 53 53.176 W
4779.00	89.88	105.71	1676.42	-994.56	3381.93	1958321.17	2704062.25	36	22	54 813 N	107 53 52.799 W
4811.00	88.75	105.58	1676.80	-1003.19	3412.74	1958312.52	2704093.05	36	22	54 727 N	107 53 52.422 W
4842.00	89.31	105.58	1677.32	-1011.51	3442.60	1958304.17	2704122.90	36	22	54 645 N	107 53 52.057 W
4874.00	90.00	105.58	1677.52	-1020.11	3473.42	1958295.55	2704153.72	36	22	54 560 N	107 53 51.680 W
4906.00	89.88	106.45	1677.55	-1028.94	3504.18	1958286.70	2704184.47	36	22	54 472 N	107 53 51.304 W
4939.00	90.53	106.38	1677.43	-1038.26	3535.83	1958277.35	2704216.12	36	22	54 380 N	107 53 50.916 W
4971.00	89.19	106.33	1677.51	-1047.27	3566.54	1958268.32	2704246.81	36	22	54 291 N	107 53 50.541 W
5003.00	89.63	106.21	1677.84	-1056.24	3597.25	1958259.33	2704277.52	36	22	54 202 N	107 53 50.165 W
5035.00	88.63	106.83	1678.33	-1065.34	3627.93	1958250.21	2704308.19	36	22	54 112 N	107 53 49.790 W
5067.00	89.13	107.08	1678.95	-1074.67	3658.53	1958240.85	2704338.79	36	22	54 020 N	107 53 49.416 W
5099.00	89.75	107.08	1679.26	-1084.06	3689.12	1958231.43	2704369.37	36	22	53 927 N	107 53 49.042 W
5131.00	89.81	107.46	1679.39	-1093.56	3719.67	1958221.90	2704399.91	36	22	53 833 N	107 53 48.668 W
5163.00	89.69	107.58	1679.53	-1103.20	3750.19	1958212.25	2704430.42	36	22	53 738 N	107 53 48.295 W
5195.00	89.44	107.21	1679.77	-1112.76	3780.73	1958202.66	2704460.95	36	22	53 643 N	107 53 47.921 W
5228.00	89.88	107.33	1679.97	-1122.56	3812.24	1958192.84	2704492.45	36	22	53 546 N	107 53 47.536 W
5260.00	90.75	107.08	1679.79	-1132.03	3842.80	1958183.35	2704523.01	36	22	53 453 N	107 53 47.162 W
5292.00	90.25	107.21	1679.51	-1141.46	3873.38	1958173.89	2704553.58	36	22	53 359 N	107 53 46.788 W
5324.00	89.88	106.83	1679.47	-1150.82	3903.98	1958164.50	2704584.17	36	22	53 267 N	107 53 46.414 W
5356.00	89.06	106.96	1679.77	-1160.12	3934.60	1958155.18	2704614.78	36	22	53 175 N	107 53 46.040 W
5389.00	89.38	106.96	1680.22	-1169.75	3966.16	1958145.52	2704646.34	36	22	53 079 N	107 53 45.654 W
5421.00	89.60	107.05	1680.50	-1179.11	3996.76	1958136.14	2704676.93	36	22	52 987 N	107 53 45.280 W
5453.00	88.50	107.58	1681.04	-1188.63	4027.30	1958126.60	2704707.47	36	22	52 893 N	107 53 44.906 W
5485.00	88.88	107.46	1681.77	-1198.26	4057.81	1958116.94	2704737.97	36	22	52 797 N	107 53 44.533 W
5518.00	89.63	107.21	1682.20	-1208.09	4089.31	1958107.08	2704769.46	36	22	52 700 N	107 53 44.148 W
5550.00	90.25	107.21	1682.23	-1217.56	4119.88	1958097.59	2704800.02	36	22	52 606 N	107 53 43.774 W
5557.00	90.39	107.26	1682.19	-1219.63	4126.56	1958095.51	2704806.70	36	22	52 586 N	107 53 43.692 W
5570.00	90.64	107.35	1682.07	-1223.50	4138.97	1958091.64	2704819.11	36	22	52 548 N	107 53 43.540 W
5625.00	90.64	107.35	1681.46	-1239.90	4191.47	1958075.20	2704871.59	36	22	52 385 N	107 53 42.898 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2235.00	1660.01	7 000	8.500	Int. 7"
5625.00	1681.46	0 000	0 000	4 1/2"/Pbhl

Annotation

MD ft	TVD ft	
5557.00	1682.19	Last Svy
5625.00	1681.46	Proj To Bit