

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 28 2011

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

SUNDRY NOTICES AND REPORTS ON WELLS of Land Management
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-035634

6. If Indian, Allottee or Tribe Name
N/A

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

8. Well Name and No.
HB McGRADY A #1H

9. API Well No.
30-045-34912

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 CR 3100 AZTEC, NM 87410

3b. Phone No. (include area code)
505-333-3100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1800' FSL & 805' FEL NESE SEC. 14 (I) - T27N-R12W N.M.P.M.

BWL: 700' FSL / 700' FWL SWSW Sec. 14 (M) - T27N-12W NMPM

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 **Formation**

☒ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon **and name change**

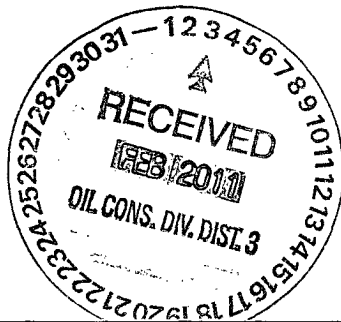
☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

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.)

Original APD submitted as the HB McGrady A #1F and permitted formations as Basin Dakota/Wildcat Basin Mancos.

Changing APD to reflect the new name as HB McGrady A #1H and changing the formation to horizontal Fruitland Coal.

Please see attached C-102, drilling program and standard plan showing this revision.



CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

Hold C104
for Directional Survey
and "As Drilled" plat

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

MALIA VILLERS

Title **PERMITTING TECH**

Signature **malia villers**

Date **1/27/2011**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Troy L. Salyers**

Title **PE**

Date **2/1/2011**

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**

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

PRELIMINARY B.H.L.
B.H.L. FOOTAGES ARE APPROXIMATE
AND PROVIDED BY XTO ENERGY INC.
CLIENT

SURFACE:
LAT: 36.57286° N. (NAD 83)
LONG: 108.07477° W. (NAD 83)

LAT: 36°34'22.29085" N. (NAD 27)
LONG: 108°04'26.94055" W. (NAD 27)

BOTTOM HOLE:
LAT: 36.56986° N. (NAD 83)
LONG: 108.08762° W. (NAD 83)

LAT: 36°34'11.48396" N. (NAD 27)
LONG: 108°05'13.18269" W. (NAD 27)

The survey map displays a grid system with several key points and distances. A dashed line connects the Surface point to the Bottom Hole (BHL). The map includes bearings and distances for various segments, such as N 0°02'20" E 2638.60' (M) and N 0°01' W 2640.00' (R). It also shows corner locations like FD. 2 1/2" BC. 1930 GLO and FD. 2 1/2" BC. 1911 GLO. Dimensions of 700', 805', and 1800' are indicated for specific parts of the survey area.

XTO ENERGY INC.

HB McGrady A #1H

APD Data

January 25, 2011

Location: 1800' FSL x 805' FEL Sec 14, T27N, R12W County: San Juan

State: New Mexico

Bottomhole Location: 700' FSL x 700' FWL Sec 14, T27N, R12W

GREATEST PROJECTED TVD: 1554'

APPROX GR ELEV: 6011'

GREATEST PROJECTED MD: 5073'

Est KB ELEV: 6023' (12' AGL)

OBJECTIVE: Fruitland Coal

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2112'	2112' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer	FW/ Polymer
WEIGHT	8.6-9.0	8.4-9.2	8.4-8.6
VISCOSITY	28-32	28-36	28-36
WATER LOSS	NC	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning.

2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at $\pm 225'$ in a 12-1/4" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-225'	225'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	18.76	32.7	48.6

Intermediate Casing: 7" casing to be set at $\pm 2112'$ MD, 1554' TVD in 8.75" hole filled with 9.20 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-2112	2112'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	4.39	5.86	5.85

Production Casing: 4.5" casing to be set at $\pm 5073'$ MD, 1554' TVD in 6.125" hole filled with 8.4 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
2052'-5073'	3021'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.91	7.06	4.16

¹Collapse SF is based on evacuated annulus and hydrostatic at TVD.

²Burst SF is based on evacuated casing and hydrostatic at TVD.

³Tensile SF is based on hanging air weight of casing in a vertical hole at measured depth.

3. WELLHEAD:

- A. Casing Head: WHI QDF System (or equivalent), 9-5/8" x 7", 3,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread ST&C pin end on bottom and 4-1/2" slips on top.
- B. Tubing Head: WHI W2F (or equivalent), 7.063" nominal, 5,000 psig WP (5,000 psig test), 5-1/2" slip-on or weld-on.

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

- A. Surface: 9.625", 36.0#, J-55, ST&C casing to be set at $\pm 225'$ in 13-1/2" hole.

± 188 sx of Type V cement (or equivalent) typically containing accelerator and LCM, mixed at 15.8 ppg, 1.17 ft³/sk, & 5.01 gal wtr/sk.

Total slurry volume is 220 ft³, 100% excess of calculated annular volume to 225'.

- B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at $\pm 2112'$ MD, 1554' TVD in 8.75" hole.

LEAD:

± 112 sx of Type V (or equivalent) typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.3 ppg, 2.36 ft³/sk, & 12.95 gal wtr/sk.

TAIL:

± 100 sx of Type V or Class G cement typically containing accelerator, LCM, dispersant, and fluid loss additives at 13.5 ppg, 1.81 ft³/sk, & 8.85 gal wtr/sk.

Total estimated slurry volume for the 7" production casing is 445 ft³.

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 5073' MD, 1516' TVD in 6.125" hole.

The production liner will be set using an uncemented liner hanger. The liner may be tied back to surface during the completion of the well.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs (if available) plus 40%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

- A. Mud Logger: A geologic consultant or unmanned mud logging unit will begin logging the well once the surface shoe is drilled out and remain on the well to TD.
- B. Open Hole Logs as follows: Gamma Ray from Surface shoe to TD.

6. FORMATION TOPS:

See attached Directional Program.

**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) ****

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Brian Henthorn	Project Geologist	817-885-2800	--

JDN
1/25/11

XTO Energy

San Juan Basin (NAD 83)

HB McGrady A #1H

HB McGrady A #1H

HB McGrady A #1H

Plan: Permitted Wellbore -- HB McGrady A #1H

Standard Planning Report

20 January, 2011

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well HB McGrady A #1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Site:	HB McGrady A #1H	North Reference:	True
Well:	HB McGrady A #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HB McGrady A #1H		
Design:	Permitted Wellbore – HB McGrady A #1H		

Project	San Juan Basin (NAD 83), San Juan Co., NM,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	HB McGrady A #1H, T27N, R12W		
Site Position:		Northing:	2,027,919.12 ft
From:	Lat/Long	Easting:	2,652,197.74 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	36° 34' 22.30 N
		Longitude:	108° 4' 29.17 W
		Grid Convergence:	-0.14 °

Well	HB McGrady A #1H, Horizontal FC		
Well Position	+N/-S	0.00 ft	Northing: 2,027,919.12 ft
	+E/-W	0.00 ft	Easting: 2,652,197.74 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	6,011.00 ft
		Ground Level:	6,011.00 ft

Wellbore	HB McGrady A #1H		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	12/31/2009	(°)
			10.17
			Dip Angle (°)
			63.31
			Field Strength (nT)
			50,774

Design	Permitted Wellbore – HB McGrady A #1H		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction (°)
			253.86

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
599.91	0.00	0.00	599.91	0.00	0.00	0.00	0.00	0.00	0.00	
2,112.41	90.75	253.86	1,554.76	-268.91	-929.30	6.00	6.00	0.00	253.86	
5,073.40	90.75	253.86	1,516.00	-1,091.89	-3,773.36	0.00	0.00	0.00	0.00	Proposed BHL – HB I

XTO Energy Inc.

Planning Report

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Company:	XTO Energy	TVD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Site:	HB McGrady A #1H	North Reference:	True
Well:	HB McGrady A #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HB McGrady A #1H		
Design:	Permitted Wellbore - HB McGrady A #1H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
385.00	0.00	0.00	385.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo SS									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
509.00	0.00	0.00	509.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
599.91	0.00	0.00	599.91	0.00	0.00	0.00	0.00	0.00	0.00
650.00	3.01	253.86	649.98	-0.37	-1.26	1.31	6.00	6.00	0.00
700.00	6.01	253.86	699.82	-1.46	-5.03	5.24	6.00	6.00	0.00
750.00	9.01	253.86	749.38	-3.27	-11.31	11.77	6.00	6.00	0.00
800.00	12.01	253.86	798.54	-5.81	-20.06	20.89	6.00	6.00	0.00
850.00	15.01	253.86	847.15	-9.05	-31.28	32.56	6.00	6.00	0.00
900.00	18.01	253.86	895.09	-13.00	-44.92	46.77	6.00	6.00	0.00
950.00	21.01	253.86	942.21	-17.64	-60.96	63.46	6.00	6.00	0.00
1,000.00	24.01	253.86	988.40	-22.96	-79.34	82.59	6.00	6.00	0.00
1,050.00	27.01	253.86	1,033.52	-28.94	-100.02	104.12	6.00	6.00	0.00
1,082.25	28.94	253.86	1,062.00	-33.15	-114.55	119.25	6.00	6.00	0.00
Fruitland Formation									
1,100.00	30.01	253.86	1,077.45	-35.57	-122.94	127.98	6.00	6.00	0.00
1,150.00	33.01	253.86	1,120.08	-42.84	-148.03	154.11	6.00	6.00	0.00
1,200.00	36.01	253.86	1,161.28	-50.71	-175.24	182.43	6.00	6.00	0.00
1,250.00	39.01	253.86	1,200.94	-59.17	-204.48	212.87	6.00	6.00	0.00
1,300.00	42.01	253.86	1,238.95	-68.20	-235.67	245.34	6.00	6.00	0.00
1,350.00	45.01	253.86	1,275.21	-77.76	-268.73	279.76	6.00	6.00	0.00
1,400.00	48.01	253.86	1,309.62	-87.84	-303.57	316.02	6.00	6.00	0.00
1,450.00	51.01	253.86	1,342.09	-98.41	-340.09	354.04	6.00	6.00	0.00
1,500.00	54.01	253.86	1,372.52	-109.44	-378.19	393.71	6.00	6.00	0.00
1,541.19	56.48	253.86	1,396.00	-118.84	-410.70	427.55	6.00	6.00	0.00
Upper Fruitland Coal									
1,550.00	57.01	253.86	1,400.83	-120.89	-417.77	434.91	6.00	6.00	0.00
1,600.00	60.01	253.86	1,426.95	-132.74	-458.72	477.54	6.00	6.00	0.00
1,650.00	63.01	253.86	1,450.80	-144.95	-500.93	521.48	6.00	6.00	0.00
1,700.00	66.01	253.86	1,472.32	-157.50	-544.28	566.61	6.00	6.00	0.00
1,750.00	69.01	253.86	1,491.45	-170.33	-588.65	612.80	6.00	6.00	0.00
1,800.00	72.01	253.86	1,508.13	-183.43	-633.92	659.93	6.00	6.00	0.00
1,850.00	75.01	253.86	1,522.32	-196.76	-679.97	707.86	6.00	6.00	0.00
1,900.00	78.01	253.86	1,533.99	-210.27	-726.66	756.48	6.00	6.00	0.00
1,950.00	81.01	253.86	1,543.10	-223.94	-773.89	805.63	6.00	6.00	0.00
1,964.58	81.88	253.86	1,545.27	-227.94	-787.73	820.05	6.00	6.00	0.00
Lower Fruitland Coal									
2,000.00	84.01	253.86	1,549.62	-237.71	-821.50	855.20	6.00	6.00	0.00
2,050.00	87.01	253.86	1,553.54	-251.57	-869.38	905.04	6.00	6.00	0.00
2,100.00	90.01	253.86	1,554.84	-265.46	-917.38	955.02	6.00	6.00	0.00
2,112.41	90.75	253.86	1,554.76	-268.91	-929.30	967.43	6.00	6.00	0.00
7"									
2,200.00	90.75	253.86	1,553.61	-293.25	-1,013.44	1,055.01	0.00	0.00	0.00
2,300.00	90.75	253.86	1,552.30	-321.05	-1,109.49	1,155.00	0.00	0.00	0.00

XTO Energy Inc.

Planning Report

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Site:	HB McGrady A #1H	North Reference:	True
Well:	HB McGrady A #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HB McGrady A #1H		
Design:	Permitted Wellbore – HB McGrady A #1H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,400.00	90.75	253.86	1,550.99	-348.84	-1,205.54	1,254.99	0.00	0.00	0.00
2,500.00	90.75	253.86	1,549.68	-376.64	-1,301.59	1,354.99	0.00	0.00	0.00
2,600.00	90.75	253.86	1,548.38	-404.43	-1,397.64	1,454.98	0.00	0.00	0.00
2,700.00	90.75	253.86	1,547.07	-432.22	-1,493.69	1,554.97	0.00	0.00	0.00
2,800.00	90.75	253.86	1,545.76	-460.02	-1,589.74	1,654.96	0.00	0.00	0.00
2,900.00	90.75	253.86	1,544.45	-487.81	-1,685.79	1,754.95	0.00	0.00	0.00
3,000.00	90.75	253.86	1,543.14	-515.61	-1,781.84	1,854.94	0.00	0.00	0.00
3,100.00	90.75	253.86	1,541.83	-543.40	-1,877.89	1,954.93	0.00	0.00	0.00
3,200.00	90.75	253.86	1,540.52	-571.19	-1,973.94	2,054.93	0.00	0.00	0.00
3,300.00	90.75	253.86	1,539.21	-598.99	-2,070.00	2,154.92	0.00	0.00	0.00
3,400.00	90.75	253.86	1,537.90	-626.78	-2,166.05	2,254.91	0.00	0.00	0.00
3,500.00	90.75	253.86	1,536.60	-654.58	-2,262.10	2,354.90	0.00	0.00	0.00
3,600.00	90.75	253.86	1,535.29	-682.37	-2,358.15	2,454.89	0.00	0.00	0.00
3,700.00	90.75	253.86	1,533.98	-710.16	-2,454.20	2,554.88	0.00	0.00	0.00
3,800.00	90.75	253.86	1,532.67	-737.96	-2,550.25	2,654.87	0.00	0.00	0.00
3,900.00	90.75	253.86	1,531.36	-765.75	-2,646.30	2,754.87	0.00	0.00	0.00
4,000.00	90.75	253.86	1,530.05	-793.54	-2,742.35	2,854.86	0.00	0.00	0.00
4,100.00	90.75	253.86	1,528.74	-821.34	-2,838.40	2,954.85	0.00	0.00	0.00
4,200.00	90.75	253.86	1,527.43	-849.13	-2,934.45	3,054.84	0.00	0.00	0.00
4,300.00	90.75	253.86	1,526.12	-876.93	-3,030.51	3,154.83	0.00	0.00	0.00
4,400.00	90.75	253.86	1,524.81	-904.72	-3,126.56	3,254.82	0.00	0.00	0.00
4,500.00	90.75	253.86	1,523.51	-932.51	-3,222.61	3,354.81	0.00	0.00	0.00
4,600.00	90.75	253.86	1,522.20	-960.31	-3,318.66	3,454.81	0.00	0.00	0.00
4,700.00	90.75	253.86	1,520.89	-988.10	-3,414.71	3,554.80	0.00	0.00	0.00
4,800.00	90.75	253.86	1,519.58	-1,015.90	-3,510.76	3,654.79	0.00	0.00	0.00
4,900.00	90.75	253.86	1,518.27	-1,043.69	-3,606.81	3,754.78	0.00	0.00	0.00
5,000.00	90.75	253.86	1,516.96	-1,071.48	-3,702.86	3,854.77	0.00	0.00	0.00
5,073.40	90.75	253.86	1,516.00	-1,091.88	-3,773.36	3,928.17	0.00	0.00	0.00

4 1/2"

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Proposed BHL -- HB Mc	0.00	0.00	1,516.00	-1,091.89	-3,773.36	2,026,836.72	2,648,421.65	36° 34' 11.50 N	108° 5' 15.43 W
- plan hits target									
- Rectangle (sides W10.00 H10.00 D0.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
225.00	225.00	9 5/8"	9.625	12.250	
2,112.41	1,554.76	7"	7.000	8.750	
5,073.40	1,516.00	4 1/2"	4.500	6.125	

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well HB McGrady A #1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 6023.00ft (Aztec 507)
Site:	HB McGrady A #1H	North Reference:	True
Well:	HB McGrady A #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HB McGrady A #1H		
Design:	Permitted Wellbore -- HB McGrady A #1H		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
385.00	385.00	Ojo Alamo SS		0.00	
509.00	509.00	Kirtland Shale		0.00	
1,082.25	1,062.00	Fruitland Formation		0.00	
1,541.19	1,396.00	Upper Fruitland Coal		0.00	
1,964.58	1,556.00	Lower Fruitland Coal		-0.75	253.00
	1,571.00	Base of Lower Coal		-0.75	253.00