District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number / [3] API Number
XTO Energy Inc. 382 CR 3100 AZTEC NM 87410	5380 30-045- 35245

[5] Property Code	[5] Property Name	[6] Well No.
24507	BROWN	#4H

[9] Proposed Pool 1	[10] Proposed Pool 2
BASIN FRUITLAND COAL	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	30N	12W		185'	SOUTH	2025'	WEST	SAN JUAN

[8] Proposed 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
L	29	30N	12W		1940'	SOUTH	700'	WEST	SAN JUAN

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
New Well	G		Private	5484'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
No	3452'	Fruitland Coal		January 15, 2011

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
13.50	9.625	36	225	188	
8.75	7	23	1961	99	
8.75	7	23	1961	100	
6.125	4.5	10.5	3452	0	
					SPUD DEC 16'10

[22] Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

OIL CONS. DIV.

DIST. 3

Please see attached drilling program and horizontal plan.

Hold C104
for Directional Survey
and "As Drilled" plat

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Malia Villers

Printed name: Malia Villers

Title: Permitting Tech.

E-mail Address: malia_villers@xtoenergy.com

Date: 12/13/2010 | Phone: 505-333-3100

OIL CONSERVATION DIVISION

Approved by: 2-21-2011

Title: SUPERVISOR DISTRICT #3

Approval Date: FEB 23 2011 | Expiration Date: FEB 23 2012

Conditions of Approval Attached ☐

Hold C104
for Directional Survey
and "As Drilled" plat

FEB 23 2011

Delay in approval due to operator out of comp. 5.9 F/A + I/A wells

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

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-35245	71629	Basin Fruitland Coal

[4] Property Code	[5] Property Name	[6] Well Number
24507	BROWN	4H

[7] OGRID No.	[8] Operator Name	[9] Elevation
5380	XTO ENERGY INC.	5484'

[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
N	29	30-N	12-W		185	SOUTH	2025	WEST	SAN JUAN

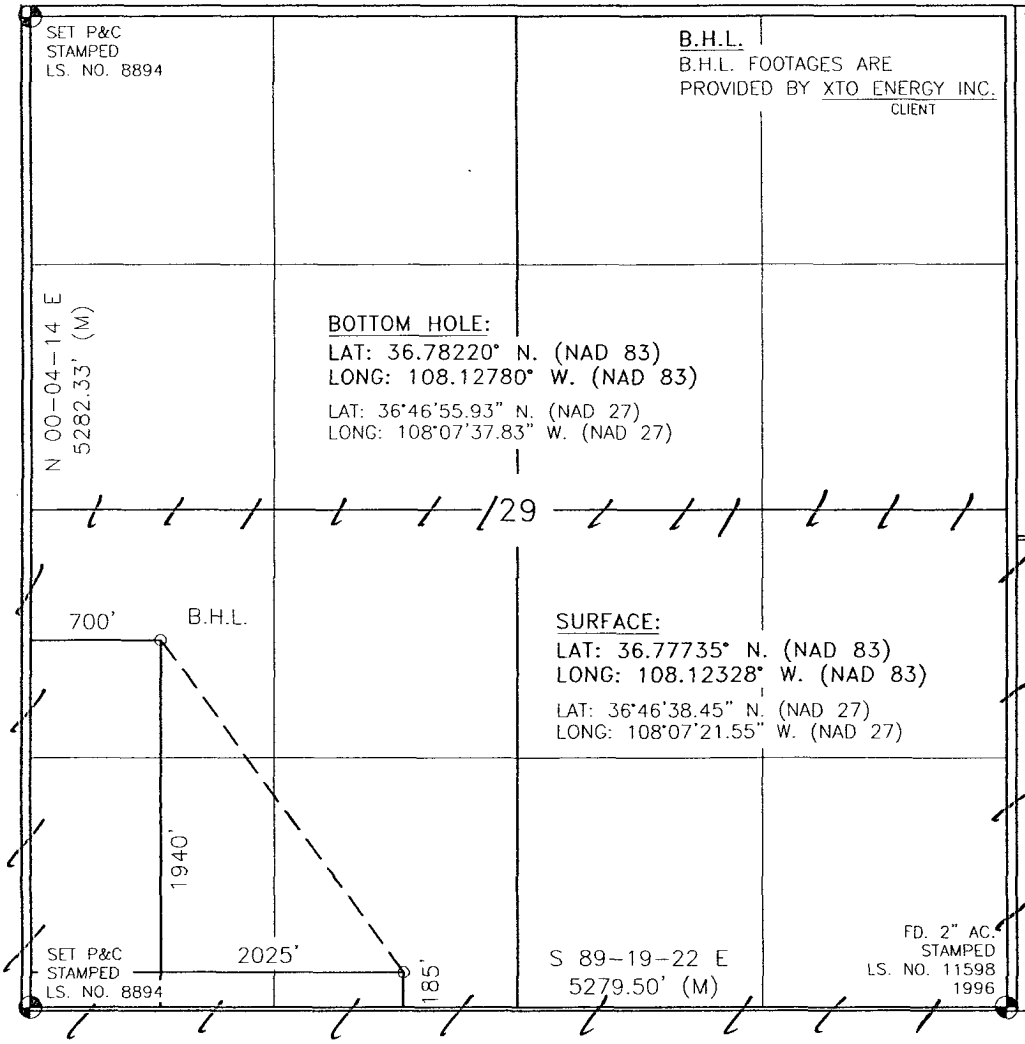
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	30-N	12-W		1940	SOUTH	700	WEST	SAN JUAN

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
S/2 320.0			

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

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.

Malia Villers 12/13/10
Signature Date

Malia Villers
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 belief.

FEBRUARY 12, 2009
Date of Survey

Signature and Seal of Professional Surveyor:

ROY A. BUSH
NEW MEXICO
REGISTERED
8894
PROFESSIONAL LAND SURVEYOR

Certificate Number

XTO ENERGY INC.

Brown #4H
APD Data
December 9, 2010

Location: 185' FSL x 2025' FWL Sec 29, T30N, R12W **County**: San Juan **State**: New Mexico
Bottomhole Location: 1940' FSL x 700' FWL Sec 29, T30N, R12W

GREATEST PROJECTED TVD: 1552'
GREATEST PROJECTED MD: 3452'
OBJECTIVE: Fruitland Coal

APPROX GR ELEV: 5484'
Est KB ELEV: 5496' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 1961'	1961' to TD
HOLE SIZE	13.5"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer	FW/ Polymer
WEIGHT	8.6-9.0	8.6-9.2	8.4-8.8
VISCOSITY	28-32	28-36	28-32
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 ± 225' in a 13-1/2" 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 ±1961' MD, 1552' 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'-1961	1961'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	4.40	5.87	6.30

Production Casing: 4.5" casing to be set at ±3452' MD, 1552' 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]
1900'-3452'	1552'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.91	7.06	8.10

[1]Collapse SF is based on evacuated annulus and hydrostatic at TVD.
[2]Burst SF is based on evacuated casing and hydrostatic at TVD.
[3]Tensile 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 ± 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 ft^3/sk, & 5.01 gal wtr/sk.

Total slurry volume is 220 ft^3, 100% excess of calculated annular volume to 225'.

B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at ±1961'MD, 1552' TVD in 8.75" hole.

LEAD:
± **99** sx of Type V (or equivalent) typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.3 ppg, 2.36 ft^3/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 ft^3/sk, & 8.85 gal wtr/sk.

Total estimated slurry volume for the 7" production casing is 413 ft^3.

C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 3452' MD, 1552' 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 Plan

**** 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
12/9/10

XTO Energy

San Juan Basin (NAD 83)
Brown #4H
Brown #4H

Brown #4H

Plan: Permitted wellbore -- Brown #4H

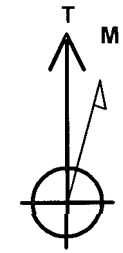
Standard Planning Report

08 December, 2010

Well Name: Brown #4H

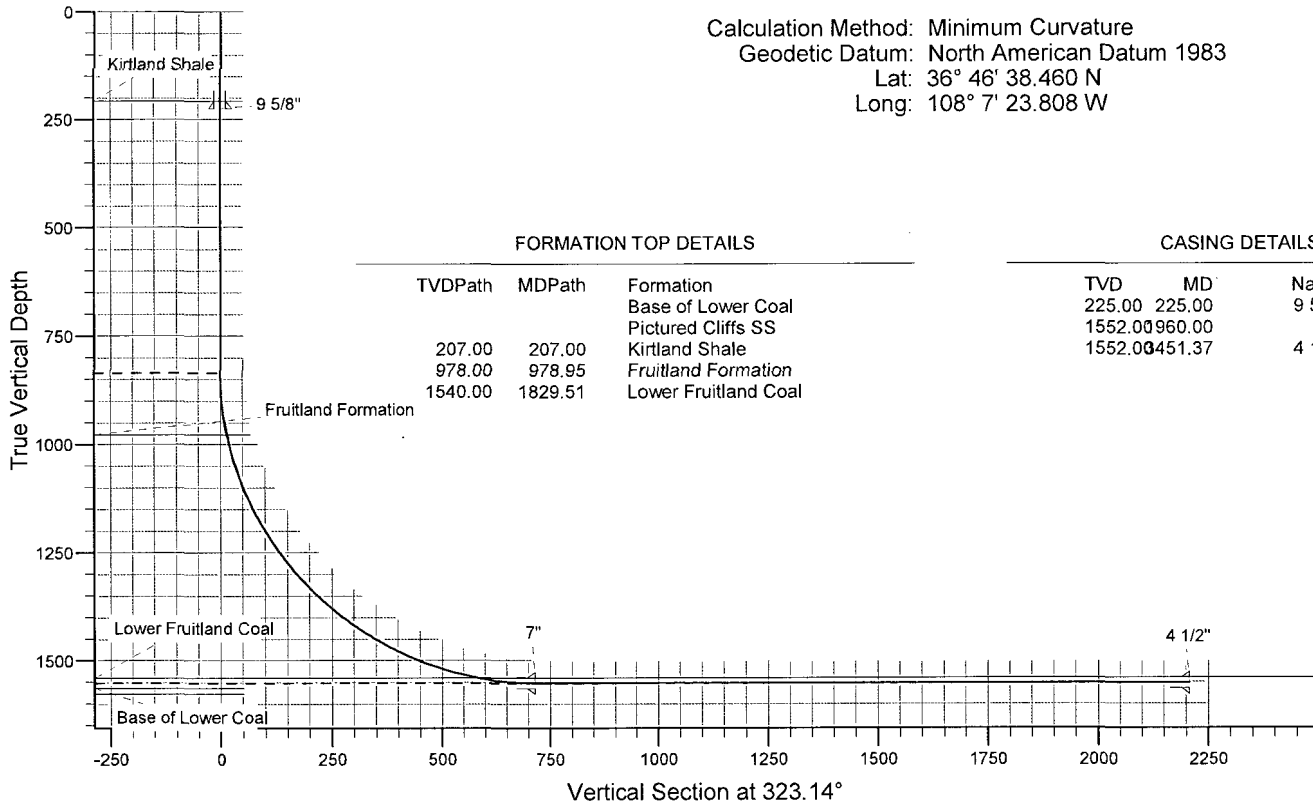
San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 36° 46' 38.460 N
Long: 108° 7' 23.808 W



Azimuths to True North
Magnetic North: 10.21°

Magnetic Field
Strength: 50888.6snT
Dip Angle: 63.47°
Date: 12/31/2009
Model: IGRF200510

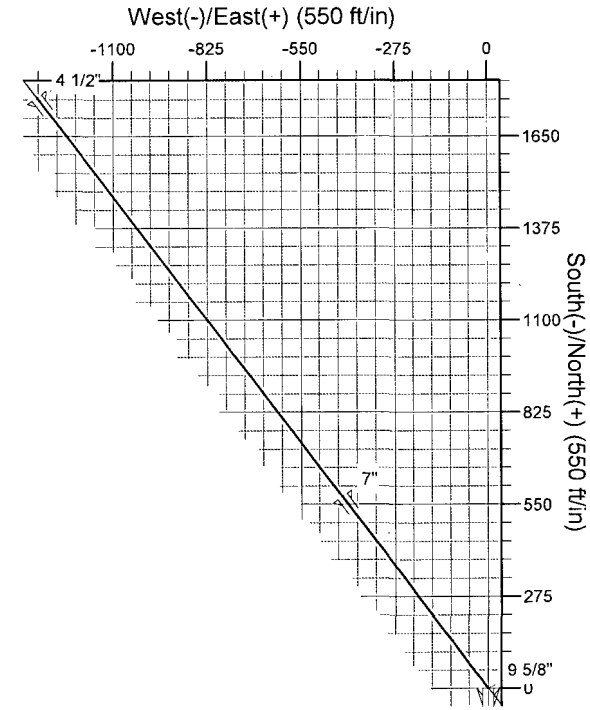


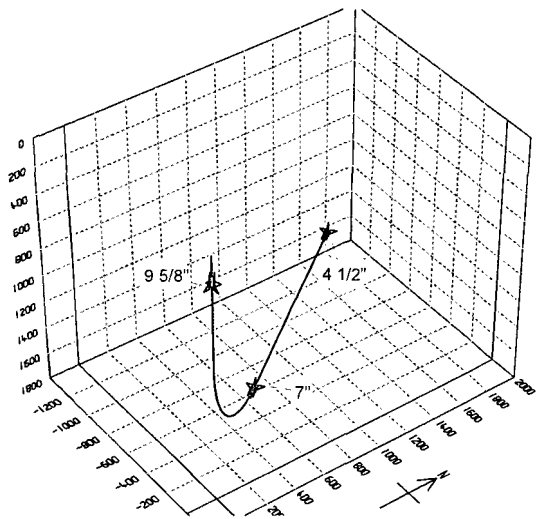
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
		Base of Lower Coal
		Pictured Cliffs SS
207.00	207.00	Kirtland Shale
978.00	978.95	*Fruitland Formation*
1540.00	1829.51	Lower Fruitland Coal

CASING DETAILS

TVD	MD	Name	Size
225.00	225.00	9 5/8"	9.625
1552.00	1960.00	7"	7.000
1552.00	3451.37	4 1/2"	4.500





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	835.80	0.00	0.00	835.80	0.00	0.00	0.00	0.00	0.00	
3	1960.80	90.00	323.14	1552.00	573.06	-429.58	8.00	323.14	716.20	
4	3451.37	90.00	323.14	1552.00	1765.72	-1323.65	0.00	0.00	2206.76	Proposed BHL -- Brown #4H

XTO Energy Inc.
Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Brown #4H
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Site:	Brown #4H	**North Reference:**	True
Well:	Brown #4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brown #4H		
Design:	Permitted wellbore -- Brown #4H		

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	Brown #4H, T30N, R12W				
Site Position:		**Northing:**	2,102,403.11ft	**Latitude:**	36° 46' 38.460 N
From:	Lat/Long	**Easting:**	2,638,178.55ft	**Longitude:**	108° 7' 23.808 W
Position Uncertainty:	0.00 ft	***Slot Radius:***	*in*	***Grid Convergence:***	-0.17 °

Well	Brown #4H, Horizontal FC				
Well Position	**+N/-S**	0.00 ft	**Northing:**	2,102,403.11ft	**Latitude:**	36° 46' 38.460 N
	+E/-W	0.00 ft	**Easting:**	2,638,178.55 ft	**Longitude:**	108° 7' 23.808 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	5,484.00 ft	**Ground Level:**	5,484.00 ft

Wellbore	*Brown #4H*			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	10.21	63.47	50,889

Design	Permitted wellbore -- Brown #4H				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.00	0.00	0.00	323.14	

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	
835.80	0.00	0.00	835.80	0.00	0.00	0.00	0.00	0.00	0.00	
1,960.80	90.00	323.14	1,552.00	573.06	-429.58	8.00	8.00	0.00	323.14	
3,451.37	90.00	323.14	1,552.00	1,765.72	-1,323.65	0.00	0.00	0.00	0.00	Proposed BHL -- Bi

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Brown #4H
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Site:	Brown #4H	**North Reference:**	True
Well:	Brown #4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brown #4H		
Design:	Permitted wellbore -- Brown #4H		

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
207.00	0.00	0.00	207.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
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
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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
835.80	0.00	0.00	835.80	0.00	0.00	0.00	0.00	0.00	0.00
850.00	1.14	323.14	850.00	0.11	-0.08	0.14	8.00	8.00	0.00
900.00	5.14	323.14	899.91	2.30	-1.72	2.88	8.00	8.00	0.00
950.00	9.14	323.14	949.52	7.27	-5.45	9.09	8.00	8.00	0.00
978.95	11.45	323.14	978.00	11.41	-8.55	14.26	8.00	8.00	0.00
Fruitland Formation									
1,000.00	13.14	323.14	998.57	14.99	-11.24	18.74	8.00	8.00	0.00
1,050.00	17.14	323.14	1,046.82	25.44	-19.07	31.79	8.00	8.00	0.00
1,100.00	21.14	323.14	1,094.05	38.55	-28.90	48.18	8.00	8.00	0.00
1,150.00	25.14	323.14	1,140.02	54.27	-40.68	67.82	8.00	8.00	0.00
1,200.00	29.14	323.14	1,184.51	72.51	-54.36	90.62	8.00	8.00	0.00
1,250.00	33.14	323.14	1,227.29	93.19	-69.86	116.47	8.00	8.00	0.00
1,300.00	37.14	323.14	1,268.18	116.21	-87.12	145.24	8.00	8.00	0.00
1,350.00	41.14	323.14	1,306.95	141.46	-106.04	176.79	8.00	8.00	0.00
1,400.00	45.14	323.14	1,343.43	168.81	-126.54	210.97	8.00	8.00	0.00
1,450.00	49.14	323.14	1,377.44	198.12	-148.52	247.61	8.00	8.00	0.00
1,500.00	53.14	323.14	1,408.80	229.27	-171.87	286.54	8.00	8.00	0.00
1,550.00	57.14	323.14	1,437.38	262.09	-196.47	327.55	8.00	8.00	0.00
1,600.00	61.14	323.14	1,463.02	296.42	-222.21	370.46	8.00	8.00	0.00
1,650.00	65.14	323.14	1,485.61	332.10	-248.96	415.06	8.00	8.00	0.00
1,700.00	69.14	323.14	1,505.04	368.96	-276.59	461.12	8.00	8.00	0.00
1,750.00	73.14	323.14	1,521.20	406.81	-304.96	508.43	8.00	8.00	0.00
1,800.00	77.14	323.14	1,534.02	445.47	-333.94	556.74	8.00	8.00	0.00
1,829.51	79.50	323.14	1,540.00	468.60	-351.28	585.64	8.00	8.00	0.00
Lower Fruitland Coal									
1,850.00	81.14	323.14	1,543.45	484.75	-363.39	605.84	8.00	8.00	0.00
1,900.00	85.14	323.14	1,549.42	524.47	-393.16	655.47	8.00	8.00	0.00
1,950.00	89.14	323.14	1,551.92	564.41	-423.11	705.39	8.00	8.00	0.00
1,960.00	89.94	323.14	1,552.00	572.42	-429.10	715.39	8.00	8.00	0.00
7"									
1,960.80	90.00	323.14	1,552.00	573.06	-429.58	716.20	8.00	8.00	0.00
2,000.00	90.00	323.14	1,552.00	604.42	-453.10	755.39	0.00	0.00	0.00
2,100.00	90.00	323.14	1,552.00	684.44	-513.08	855.39	0.00	0.00	0.00
2,200.00	90.00	323.14	1,552.00	764.45	-573.06	955.39	0.00	0.00	0.00
2,300.00	90.00	323.14	1,552.00	844.46	-633.04	1,055.39	0.00	0.00	0.00
2,400.00	90.00	323.14	1,552.00	924.48	-693.02	1,155.39	0.00	0.00	0.00
2,500.00	90.00	323.14	1,552.00	1,004.49	-753.00	1,255.39	0.00	0.00	0.00
2,600.00	90.00	323.14	1,552.00	1,084.51	-812.98	1,355.39	0.00	0.00	0.00
2,700.00	90.00	323.14	1,552.00	1,164.52	-872.97	1,455.39	0.00	0.00	0.00
2,800.00	90.00	323.14	1,552.00	1,244.53	-932.95	1,555.39	0.00	0.00	0.00
2,900.00	90.00	323.14	1,552.00	1,324.55	-992.93	1,655.39	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Brown #4H
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5496.00ft (Aztec 507)
Site:	Brown #4H	**North Reference:**	True
Well:	Brown #4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Brown #4H		
Design:	Permitted wellbore -- Brown #4H		

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)
3,000.00	90.00	323.14	1,552.00	1,404.56	-1,052.91	1,755.39	0.00	0.00	0.00
3,100.00	90.00	323.14	1,552.00	1,484.57	-1,112.89	1,855.39	0.00	0.00	0.00
3,200.00	90.00	323.14	1,552.00	1,564.59	-1,172.87	1,955.39	0.00	0.00	0.00
3,300.00	90.00	323.14	1,552.00	1,644.60	-1,232.85	2,055.39	0.00	0.00	0.00
3,400.00	90.00	323.14	1,552.00	1,724.62	-1,292.83	2,155.39	0.00	0.00	0.00
3,451.37	90.00	323.14	1,552.00	1,765.72	-1,323.65	2,206.76	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
225.00	225.00	9 5/8"	9.625	13.500
1,960.00	1,552.00	7"	7.000	8.750
3,451.37	1,552.00	4 1/2"	4.500	6.125

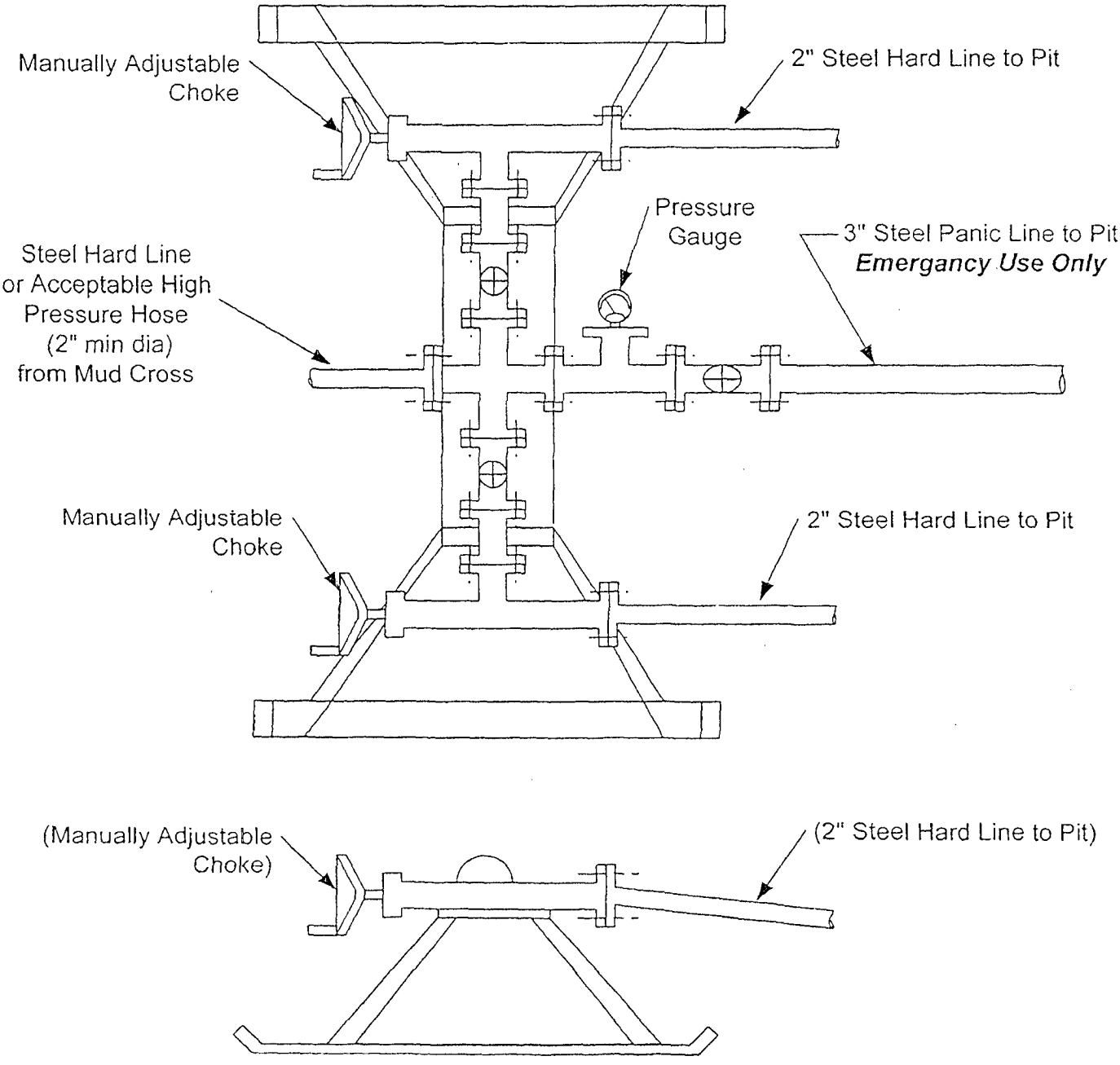
Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
207.00	207.00	Kirtland Shale		0.00	
978.95	978.00	Fruitland Formation		0.00	
1,829.51	1,540.00	Lower Fruitland Coal		0.00	
	1,564.00	Base of Lower Coal		0.00	
	1,577.00	Pictured Cliffs SS		0.00	

CHOKE MANIFOLD
SCHEMATIC FOR DRILLING OPERATIONS
CLASS 1 (2M) NORMAL PRESSURE

TESTING PROCEDURE

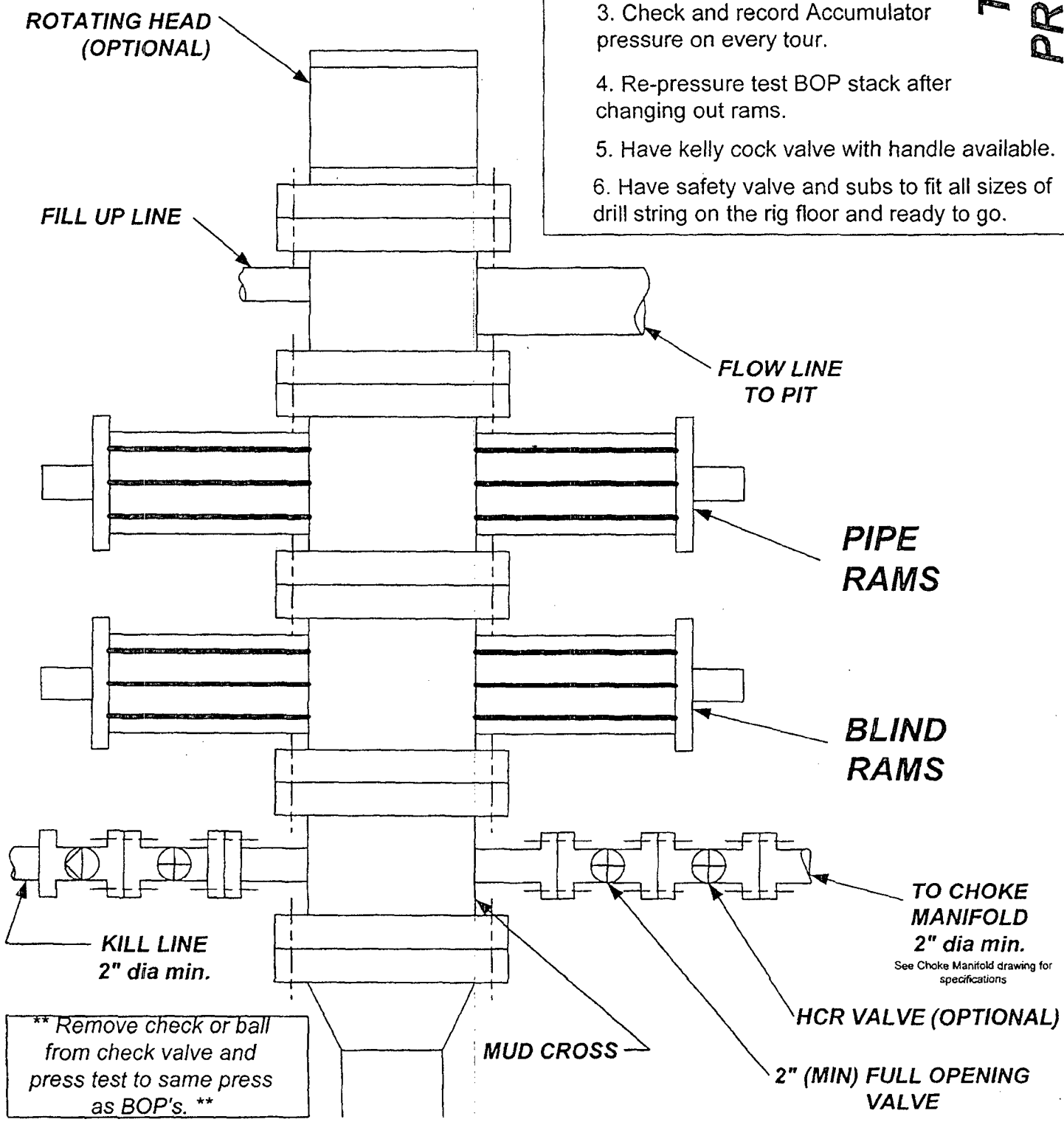
1. Stake all lines from choke manifold to pit.
2. Pressure test choke manifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.



BOP SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

TESTING PROCEDURE

1. Test BOP after installation:
   Pressure test BOP to 200-300 psig (low pressure) for 10 min.
   Test BOP to Working Press or to 70% internal yield of surf csg (10 min) or which ever is less.
2. Test operation of (both) rams on every trip.
3. Check and record Accumulator pressure on every tour.
4. Re-pressure test BOP stack after changing out rams.
5. Have kelly cock valve with handle available.
6. Have safety valve and subs to fit all sizes of drill string on the rig floor and ready to go.



** Remove check or ball from check valve and press test to same press as BOP's. **