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

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Divsiion
1220 S. 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
XTO Energy Inc. 382 CR 3100 Aztec, NM 87410	5380 [3] API Number 30- 045- 35303

[4] Property Code	[5] Property Name	[6] Well No
32286	HAYNIE	3

[9] Proposed Pool 1	[10] Proposed Pool 2
BASIN DAKOTA	BLANCO MESAVERDE

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
B	4	30N	11W	2	675	FNL	1790	FEL	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
H	4	30N	11W		1400	FNL	900	FEL	SAN JUAN

Additional Well Location

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
NEW WELL	GAS	ROTARY	FEE	5790'
[16] Multiple	[17] Proposed Depth	[18] Formation	[19] Contractor	[20] Spud Date
Y	7271'	BASIN DAKOTA		

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12.25	8.625	24	360'	260	
7.785	5.5	15.5	7271'	157 (LEAD)	1st Stage
7.785	5.5	15.5	7271'	100 (TAIL)	1st Stage
7.785	5.5	15.5	7271'	350 (LEAD)	2nd Stage
7.785	5.5	15.5	7271'	100 (TAIL)	2nd Stage

[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.

See attached drilling program and directional plan.

RCVD MAR 16 '12
OIL CONS. DIV.
DIST. 3

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

Signature: Cherylene Charley

Printed name: Cherylene Charley

Title: Sr. Permitting Tech

E-mail Address: cherylene_charley@xtoenergy.com

Date: 3/12/12 Phone: 505-333-3190

OIL CONSERVATION DIVISION

Approved by:

Title: SUPERVISOR DISTRICT # 3

Approval Date: APR 27 2012 Expiration Date: APR 27 2014

Conditions of Approval Attached ☐

ca APR 27 2012

DISTRICT I
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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	[2] Pool Code	[3] Pool Name
30-045-35363	71599	BASIN DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
32286	HAYNIE	3

[7] OGRID No.	[8] Operator Name	[9] Elevation
5380	XTO ENERGY INC.	5790'

[10] Surface Location

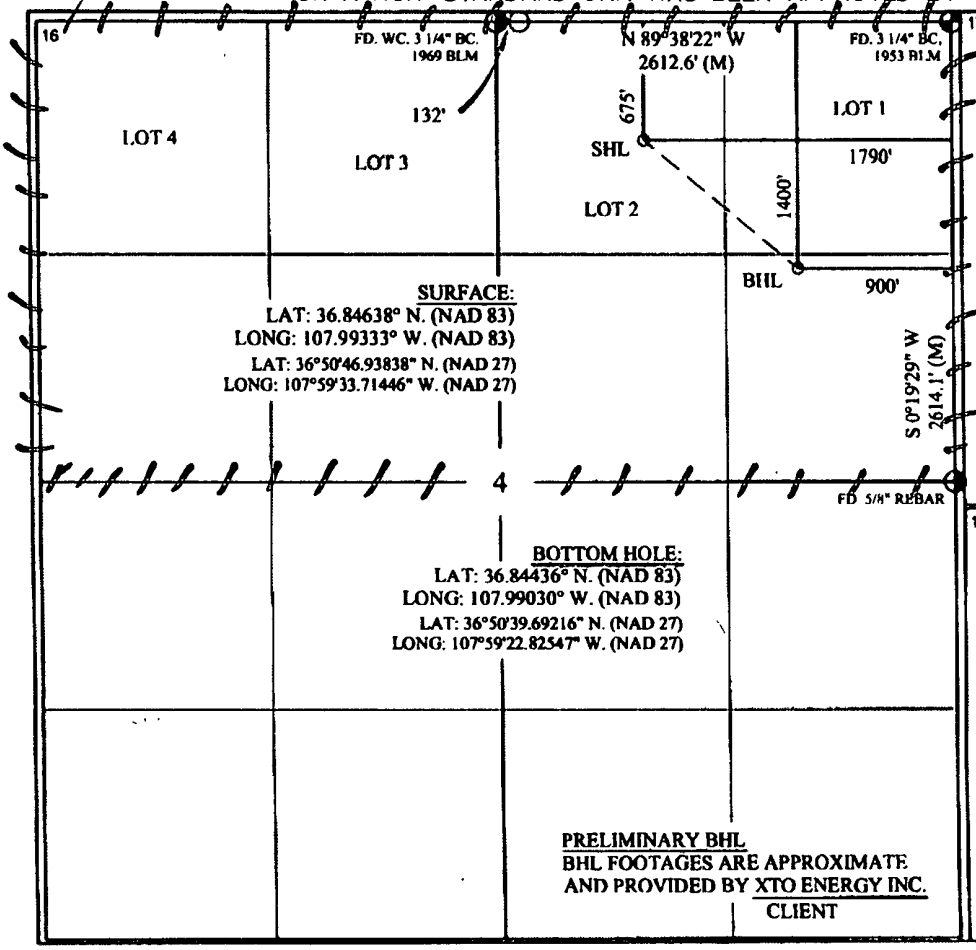
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	4	30-N	11-W	2	675	NORTH	1790	EAST	SAN JUAN

[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
H	4	30-N	11-W		1400	NORTH	900	EAST	SAN JUAN

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
N/2 - 319.80 ACRES			

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



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.

Cherylene Charley 3/12/12
Signature Date

Cherylene Charley
Printed Name

cherylene_charley@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.

DECEMBER 7, 2005
Date of Survey

Signature and Seal of Professional Surveyor:

RONALD J. EIDSON
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number

DISTRICT I
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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	2 Pool Code	3 Pool Name
30-045-35363	72319	BLANCO MESAVERDE

4 Property Code	5 Property Name	6 Well Number
32286	HAYNIE	3

7 OGRID No.	8 Operator Name	9 Elevation
5380	XTO ENERGY INC.	5790'

10 Surface Location

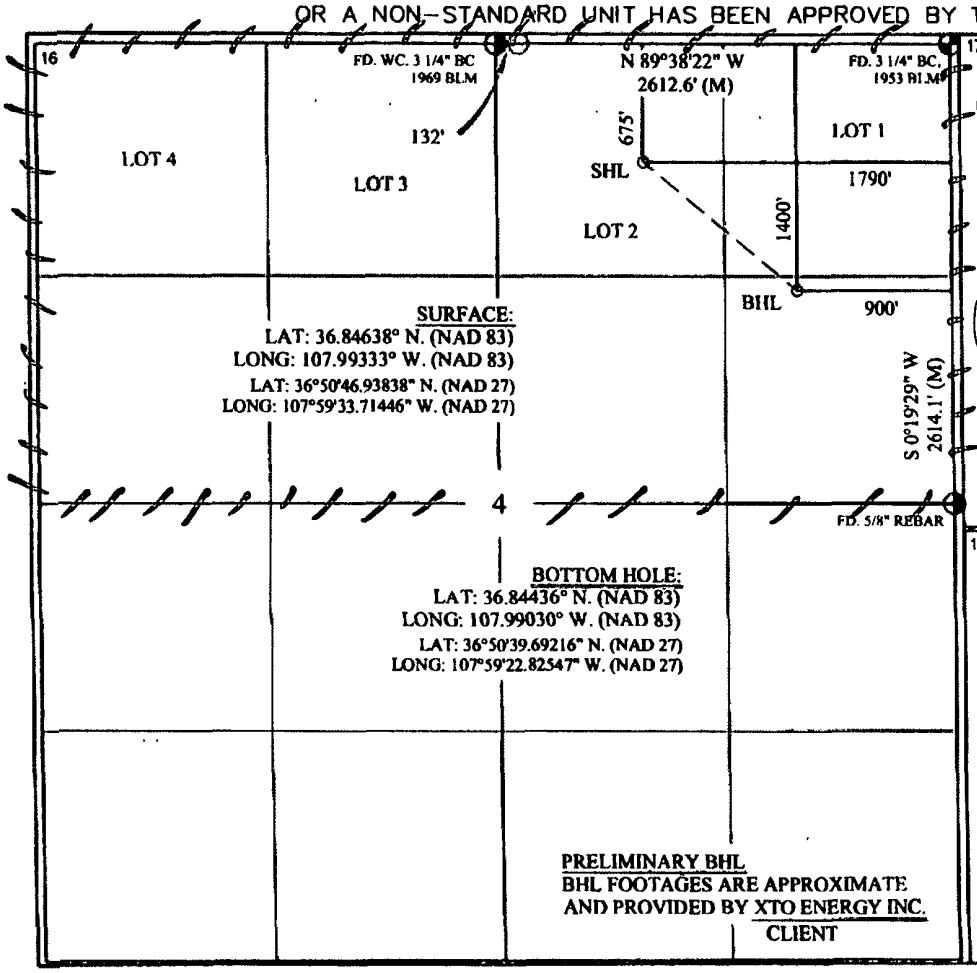
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	4	30-N	11-W		675	NORTH	1790	EAST	SAN JUAN

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
H	4	30-N	11-W		1400	NORTH	900	EAST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
N/2 - 319.80 ACRES			

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



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.

Cherylene Charley 3/12/12
Signature Date

Cherylene Charley
Printed Name

cherylene_charley@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.

DECEMBER 7, 2005
Date of Survey

Signature and Seal of Professional Surveyor:

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number

Well not in Park
Park is Green Hash Area Black Bold Border

XTO ENERGY INC.

Haynie #3
APD Data
February 23, 2012

Location: 675' FNL x 1790' FEL Sec 4, T30N, R11W **County**: San Juan **State**: NM
Bottomhole Location: 1400' FNL x 900' FEL Sec 4, T30N, R11W

GREATEST PROJECTED TD: 7271' MD, 7080 TVD OBJECTIVE: Basin Dakota/ Mesaverde
APPROX GR ELEV: 5790' Est KB ELEV: 5802' (12' AGL)

Please note attached directional program.

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 7271'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	FW/ LSND
WEIGHT	8.6-9.0	8.4-9.2
VISCOSITY	28-32	28-38
WATER LOSS	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8.625" casing to be set at ± 360' 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	SF Burst	SF Ten
0'-360'	360'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	7.950	17.13	28.24

Production Casing: 5.5" casing to be set at TD (±7271'MD/7082' TVD) in 7-7/8" hole filled with 9.20ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-7271	7271'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.20	1.42	1.79

Note: Safety factors are calculated based on a 9.2 ppg mwe with no backup using true vertical depth.

3. WELLHEAD:

A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

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

A. Surface: 8.625", 24.0#, J-55, ST&C casing to be set at ± 360' in 12-1/4" hole.

260 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 297 ft^3, 100% excess of calculated annular volume to 360'.

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at ±7271' in 7.875" hole. DV Tool set @ ±4700'.

1st Stage

LEAD:
±157 sx of Type V (or equivalent) typically containing dispersant, fluid loss additives, accelerator, & LCM mixed at 12.3 ppg, 2.36 ft^3/sk, 12.95 gal wtr/sx.

TAIL:
100 sx Type V or Class 'G' cement typically containing accelerator, LCM, dispersant, & fluid loss additives mixed at 13.5 ppg, 1.81 cuft/sx, 8.85 gal/sx.

2nd Stage

LEAD:
±350 of Type V (or equivalent) typically containing dispersant, fluid loss additives, accelerator, & LCM mixed at 12.3 ppg, 2.36 ft^3/sk, 12.95 gal wtr/sx.

TAIL:
100 sx Type V or Class 'G' cement typically containing accelerator, LCM, dispersant, & fluid loss additives mixed at 13.5 ppg, 1.81 cuft/sx, 8.85 gal/sx.

Total estimated slurry volume for the 5-1/2" production casing is 1553 ft^3.

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

5. LOGGING PROGRAM:

A. Mud Logger: If requested by Fort Worth Geology, the mud logger will come on after setting surface casing and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7271') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7271') to the projected top of the Fruitland Formation.

C. Coring and Drill stem Testing: No operations are planned for this site.

6. FORMATION TOPS:

Est. KB Elevation: 5802'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Ojo Alamo SS	5015	775	Gallup	-50	6041
Kirtland Shale	4883	910	Greenhorn	-782	6737
Farmington SS			Graneros	-848	6839
Fruitland Formation	4128	1708	Dakota 1*	-884	6875
Lower Fruitland Coal			Dakota 2*	-901	6892
Pictured Cliffs SS	3508	2367	Dakota 3*	-976	6967
Lewis Shale	3351	2534	Dakota 4*	-1018	7009
Chacra SS	2426	3519	Dakota 5*	-1051	7042
Cliffhouse SS*	1877	4098	Dakota 6*	-1088	7079
Menefee**	1711	4267	Burro Canyon	-1149	7140
Point Lookout SS*	1229	4750	Morrison*	-1180	7171
Mancos Shale	1138	4841	**TD**	-1280	**7271**

** Primary Objective* *** Secondary Objective*

**** Maximum anticipated BHP should be <2,100 psig (< 0.3 psi/ft)*****
**** Target formations will be Fracture Stimulated. *****

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	303-397-3719	505-320-0158
Bobby Jackson	Drilling Superintendent	303-397-3720	505-486-4706
Brian Henthorne	Project Geologist	817-885-2800	N/A

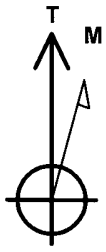
JDN
2/23/12

XTO ENERGY

Well Name: Haynie #3

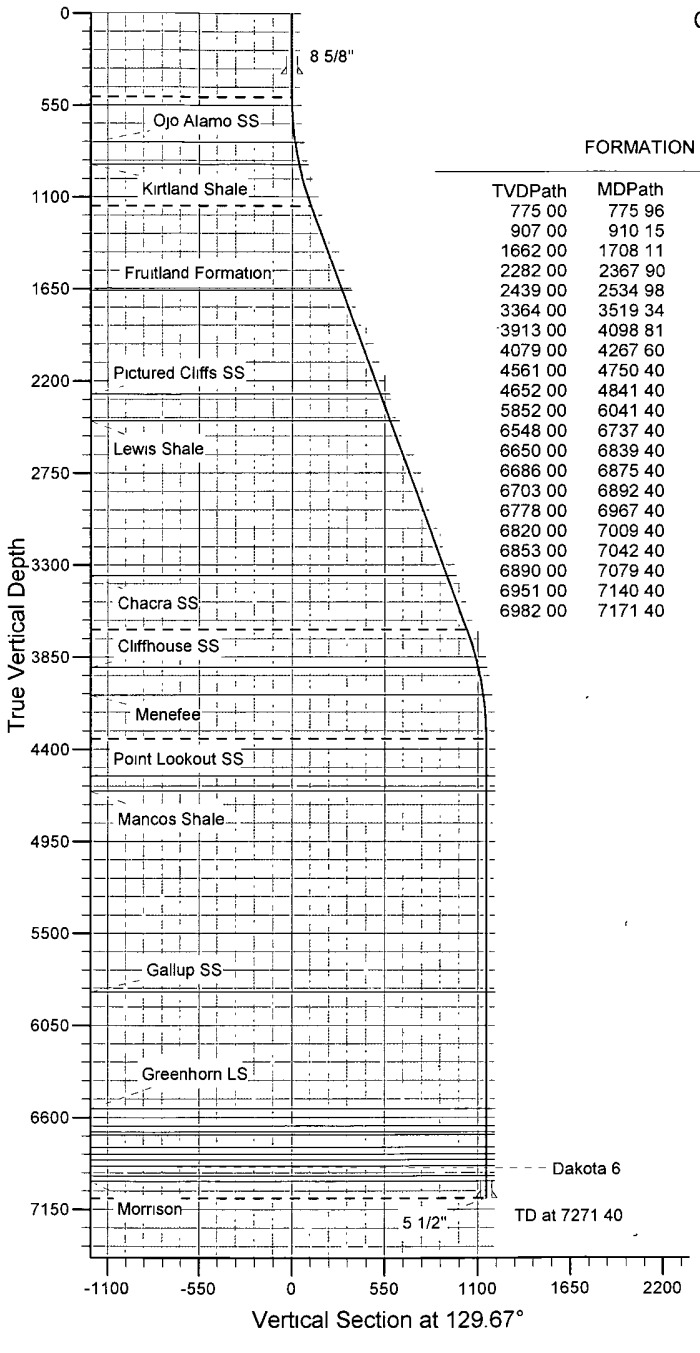
San Juan Division
Drilling Department

Calculation Method. Minimum Curvature
Geodetic Datum. North American Datum 1983
Lat. 36° 50' 46.97 N
Long. 107° 59' 35.99 W



Azimuths to True North
Magnetic North: 10.17°

Magnetic Field
Strength: 50943.7snT
Dip Angle: 63.56°
Date: 12/31/2009
Model. IGRF200510

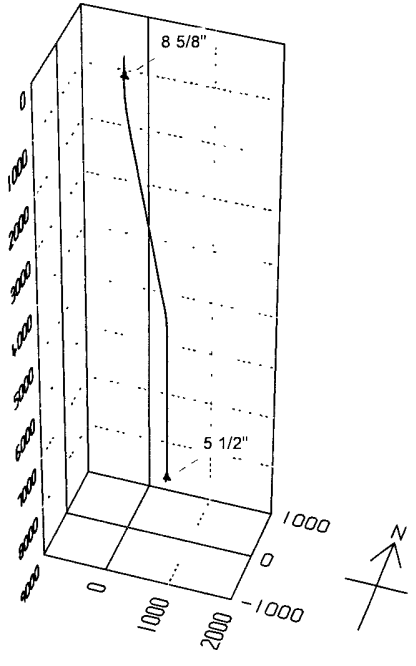


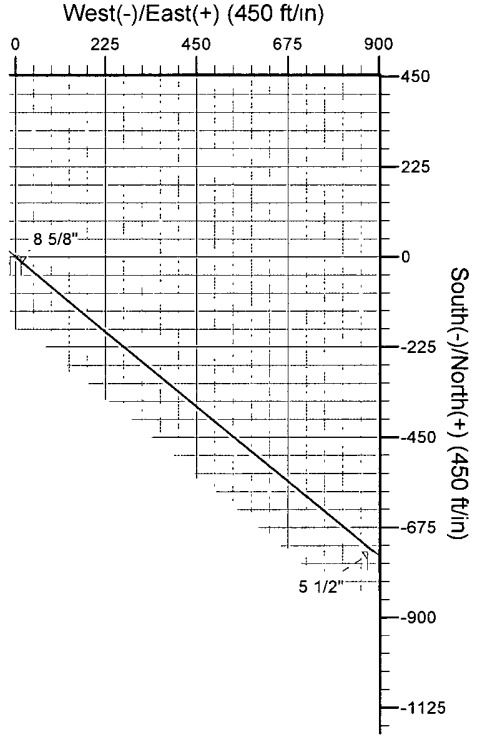
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
775 00	775 96	Ojo Alamo SS
907 00	910 15	Kirtland Shale
1662 00	1708 11	Fruitland Formation
2282 00	2367 90	Pictured Cliffs SS
2439 00	2534 98	Lewis Shale
3364 00	3519 34	Chacra SS
3913 00	4098 81	Cliffhouse SS
4079 00	4267 60	Menefee
4561 00	4750 40	Point Lookout SS
4652 00	4841 40	Mancos Shale
5852 00	6041 40	Gallup SS
6548 00	6737 40	Greenhorn LS
6650 00	6839 40	Graneros
6686 00	6875 40	Dakota 1
6703 00	6892 40	Dakota 2
6778 00	6967 40	Dakota 3
6820 00	7009 40	Dakota 4
6853 00	7042 40	Dakota 5
6890 00	7079 40	Dakota 6
6951 00	7140 40	Burro Canyon
6982 00	7171 40	Morrison

CASING DETAILS

TVD	MD	Name	Size
360 00	360 00	8 5/8"	8 625
7082 00	7271 40	5 1/2"	5 500





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	500 00	0 00	0 00	500 00	0 00	0 00	0 00	0 00	0 00	
3	1166 67	20 00	129 67	1153 21	-73 53	88 65	3 00	129 67	115 18	
4	3861 03	20 00	129 67	3685 08	-661 86	797 94	0 00	0 00	1036 71	
5	4527 70	0 00	0 00	4338 29	-735 39	886 59	3 00	180 00	1151 88	
6	7271 40	0 00	0 00	7082 00	-735 39	886 59	0 00	0 00	1151 88	Proposed BHL -- Haynie #3

XTO Energy Inc.

Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well Haynie #3
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5802 00ft (D&J #2)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5802 00ft (D&J #2)
Site:	Haynie #3	**North Reference:**	True
Well:	Haynie #3	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Haynie #3		
Design:	Permitted WEllbore -- Haynie #3		

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	Haynie #3, T30N, R11W				
Site Position:		**Northing:**	2,127,444 54 ft	**Latitude:**	36° 50' 46 97 N
From:	Lat/Long	**Easting:**	2,676,277 50 ft	**Longitude:**	107° 59' 35 99 W
Position Uncertainty:	0 00 ft	**Slot Radius:**	in	**Grid Convergence:**	-0 10 °

Well	Haynie #3, DK/ MV S-well					
Well Position	**+N/-S**	0 00 ft	**Northing:**	2,127,444 54 ft	**Latitude:**	36° 50' 46 97 N
	+E/-W	0 00 ft	**Easting:**	2,676,277 50 ft	**Longitude:**	107° 59' 35 99 W
Position Uncertainty		0 00 ft	**Wellhead Elevation:**	5,790 00 ft	**Ground Level:**	5,790 00 ft

Wellbore	Haynie #3				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	10 17	63 56	50,944

Design	Permitted WEllbore -- Haynie #3				
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	129 67	

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	
500 00	0 00	0 00	500 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,166 67	20 00	129 67	1,153 21	-73 53	88 65	3 00	3 00	0 00	129 67	
3,861 03	20 00	129 67	3,685 08	-661 86	797 94	0 00	0 00	0 00	0 00	
4,527 70	0 00	0 00	4,338 29	-735 39	886 59	3 00	-3 00	0 00	180 00	
7,271 40	0 00	0 00	7,082 00	-735 39	886 59	0 00	0 00	0 00	0 00	Proposed BHL -- Hay

Database:	EDM	**Local Co-ordinate Reference:**	Well Haynie #3
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 5802.00ft (D&J #2)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5802 00ft (D&J #2)
Site:	Haynie #3	**North Reference:**	True
Well:	Haynie #3	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Haynie #3		
Design:	Permitted WEllbore -- Haynie #3		

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
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00
360 00	0 00	0 00	360 00	0 00	0 00	0 00	0 00	0 00	0 00
8 5/8"									
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	3 00	129 67	599 95	-1 67	2 01	2 62	3 00	3 00	0 00
700 00	6 00	129 67	699 63	-6 68	8 05	10 46	3 00	3 00	0 00
775 96	8 28	129 67	775 00	-12 71	15 32	19 90	3 00	3 00	0 00
Ojo Alamo SS									
800 00	9 00	129 67	798 77	-15 01	18.10	23 51	3.00	3 00	0 00
900 00	12 00	129 67	897 08	-26 64	32 12	41 74	3 00	3 00	0 00
910.15	12.30	129 67	907 00	-28 01	33 77	43 87	3 00	3 00	0.00
Kirtland Shale									
1,000 00	15 00	129 67	994 31	-41 55	50 09	65 08	3 00	3 00	0 00
1,100 00	18 00	129 67	1,090 18	-59 68	71 95	93 48	3 00	3 00	0 00
1,166 67	20 00	129 67	1,153 21	-73 53	88 65	115 18	3 00	3 00	0 00
1,200 00	20 00	129 67	1,184 53	-80 81	97 43	126 58	0 00	0 00	0 00
1,300 00	20 00	129 67	1,278 50	-102 65	123 75	160 78	0 00	0 00	0 00
1,400 00	20 00	129 67	1,372 47	-124 48	150 08	194 98	0 00	0 00	0 00
1,500.00	20 00	129 67	1,466 44	-146 32	176 40	229 19	0 00	0 00	0 00
1,600 00	20 00	129 67	1,560 41	-168 15	202 73	263 39	0 00	0 00	0 00
1,700 00	20 00	129 67	1,654 38	-189 99	229 05	297 59	0 00	0 00	0 00
1,708 11	20 00	129 67	1,662.00	-191 76	231 19	300 36	0 00	0 00	0 00
Fruitland Formation									
1,800 00	20 00	129 67	1,748 35	-211 82	255 38	331 79	0 00	0 00	0 00
1,900 00	20 00	129 67	1,842 32	-233 66	281 70	365 99	0 00	0 00	0 00
2,000 00	20 00	129 67	1,936 29	-255 49	308 02	400 20	0 00	0 00	0 00
2,100 00	20 00	129 67	2,030.26	-277 33	334 35	434 40	0 00	0 00	0 00
2,200 00	20 00	129 67	2,124 23	-299 16	360.67	468 60	0 00	0 00	0 00
2,300 00	20 00	129 67	2,218 20	-321 00	387 00	502 80	0 00	0 00	0 00
2,367 90	20 00	129 67	2,282 00	-335 83	404 87	526 02	0 00	0 00	0.00
Pictured Cliffs SS									
2,400 00	20 00	129 67	2,312 16	-342 84	413 32	537 00	0 00	0 00	0 00
2,500 00	20 00	129 67	2,406 13	-364 67	439 65	571 21	0 00	0 00	0 00
2,534 98	20 00	129 67	2,439 00	-372 31	448 86	583 17	0 00	0 00	0 00
Lewis Shale									
2,600 00	20 00	129 67	2,500 10	-386 51	465 97	605 41	0 00	0 00	0.00
2,700 00	20 00	129.67	2,594 07	-408 34	492 30	639.61	0.00	0 00	0 00
2,800 00	20 00	129 67	2,688 04	-430 18	518 62	673 81	0 00	0 00	0 00
2,900 00	20 00	129 67	2,782 01	-452 01	544 95	708.01	0 00	0 00	0 00
3,000 00	20 00	129 67	2,875 98	-473 85	571 27	742 22	0 00	0 00	0.00
3,100 00	20 00	129 67	2,969 95	-495 68	597 60	776.42	0 00	0 00	0 00
3,200 00	20 00	129 67	3,063 92	-517 52	623 92	810 62	0 00	0 00	0.00
3,300 00	20 00	129 67	3,157 89	-539 35	650 25	844 82	0 00	0 00	0 00
3,400 00	20 00	129 67	3,251.86	-561 19	676 57	879 02	0 00	0 00	0.00
3,500 00	20 00	129 67	3,345.83	-583 02	702.90	913 23	0 00	0 00	0.00
3,519.34	20.00	129 67	3,364 00	-587 25	707 99	919 84	0 00	0 00	0 00
Chacra SS									
3,600 00	20 00	129 67	3,439 80	-604 86	729 22	947 43	0 00	0 00	0 00
3,700.00	20 00	129 67	3,533 76	-626 69	755 55	981 63	0 00	0 00	0 00

Database:	EDM	**Local Co-ordinate Reference:**	Well Haynie #3
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Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 5802 00ft (D&J #2)
Site:	Haynie #3	**North Reference:**	True
Well:	Haynie #3	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Haynie #3		
Design:	Permitted WEllbore -- Haynie #3		

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)
3,800 00	20 00	129 67	3,627 73	-648 53	781 87	1,015 83	0 00	0 00	0 00
3,861 03	20 00	129 67	3,685 08	-661 86	797 94	1,036 71	0 00	0 00	0 00
3,900 00	18 83	129.67	3,721 84	-670 13	807 91	1,049.66	3 00	-3 00	0 00
4,000 00	15 83	129 67	3,817 29	-689 14	830 83	1,079 44	3.00	-3 00	0 00
4,098 81	12 87	129 67	3,913 00	-704 77	849 68	1,103 93	3 00	-3 00	0 00
Cliffhouse SS									
4,100 00	12 83	129 67	3,914 16	-704 94	849 88	1,104 19	3 00	-3 00	0 00
4,200 00	9 83	129 67	4,012 20	-717 48	865.00	1,123 84	3 00	-3 00	0 00
4,267 60	7 80	129 67	4,079 00	-724 10	872 98	1,134 20	3 00	-3 00	0 00
Menefee									
4,300 00	6 83	129 67	4,111 14	-726 73	876 15	1,138 33	3 00	-3 00	0 00
4,400 00	3 83	129 67	4,210 69	-732 66	883 30	1,147 62	3 00	-3.00	0 00
4,500 00	0 83	129 67	4,310 60	-735 26	886 43	1,151 68	3 00	-3 00	0 00
4,527 70	0 00	0 00	4,338 29	-735 39	886 59	1,151 88	3 00	-3 00	0 00
4,600 00	0 00	0 00	4,410 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
4,700 00	0 00	0 00	4,510 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
4,750 40	0 00	0 00	4,561 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Point Lookout SS									
4,800 00	0 00	0 00	4,610 60	-735 39	886 59	1,151 88	0.00	0 00	0 00
4,841 40	0 00	0.00	4,652 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Mancos Shale									
4,900 00	0 00	0 00	4,710 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,000 00	0 00	0 00	4,810 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,100 00	0 00	0 00	4,910 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,200 00	0 00	0 00	5,010 60	-735 39	886 59	1,151 88	0 00	0.00	0 00
5,300 00	0 00	0 00	5,110 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,400 00	0 00	0 00	5,210 60	-735 39	886.59	1,151.88	0.00	0 00	0 00
5,500 00	0 00	0 00	5,310.60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,600 00	0 00	0 00	5,410 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,700 00	0 00	0 00	5,510 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,800 00	0 00	0 00	5,610 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
5,900 00	0 00	0 00	5,710 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,000.00	0 00	0 00	5,810 60	-735 39	886 59	1,151 88	0 00	0 00	0.00
6,041 40	0 00	0 00	5,852 00	-735 39	886 59	1,151.88	0 00	0 00	0 00
Gallup SS									
6,100 00	0 00	0 00	5,910 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,200 00	0 00	0 00	6,010 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,300 00	0 00	0 00	6,110 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,400 00	0 00	0 00	6,210 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,500 00	0 00	0 00	6,310 60	-735 39	886 59	1,151.88	0 00	0 00	0 00
6,600 00	0 00	0 00	6,410 60	-735.39	886 59	1,151 88	0 00	0 00	0 00
6,700 00	0 00	0 00	6,510 60	-735 39	886.59	1,151 88	0 00	0 00	0 00
6,737 40	0 00	0 00	6,548 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Greenhorn LS									
6,800 00	0 00	0 00	6,610 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,839 40	0 00	0 00	6,650 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Graneros									
6,875 40	0 00	0 00	6,686 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Dakota 1									
6,892 40	0 00	0 00	6,703 00	-735 39	886 59	1,151 88	0.00	0.00	0 00
Dakota 2									
6,900 00	0 00	0 00	6,710 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
6,967 40	0 00	0 00	6,778 00	-735 39	886 59	1,151 88	0 00	0 00	0 00

Database:	EDM	**Local Co-ordinate Reference:**	Well Haynie #3
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Site:	Haynie #3	**North Reference:**	True
Well:	Haynie #3	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Haynie #3		
Design:	Permitted WEllbore -- Haynie #3		

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)
Dakota 3									
7,000 00	0 00	0.00	6,810 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
7,009 40	0 00	0 00	6,820 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Dakota 4									
7,042 40	0 00	0 00	6,853 00	-735 39	886 59	1,151.88	0.00	0 00	0 00
Dakota 5									
7,079 40	0.00	0 00	6,890 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Dakota 6									
7,100 00	0 00	0.00	6,910 60	-735 39	886.59	1,151 88	0 00	0 00	0 00
7,140 40	0 00	0 00	6,951 00	-735 39	886 59	1,151 88	0 00	0 00	0 00
Burro Canyon									
7,171 40	0 00	0 00	6,982 00	-735 39	886 59	1,151.88	0 00	0 00	0 00
Morrison									
7,200 00	0.00	0 00	7,010 60	-735 39	886 59	1,151 88	0 00	0 00	0 00
7,271 40	0 00	0.00	7,082 00	-735 39	886.59	1,151 88	0 00	0 00	0.00
5 1/2"									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Proposed BHL -- Haynie - plan hits target - Circle (radius 10 00)	0 00	0 00	7,082 00	-735 39	886 59	2,126,707.67	2,677,162 86	36° 50' 39 70 N	107° 59' 25.08 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
360 00	360 00	8 5/8"	8 625	12 250
7,271 40	7,082 00	5 1/2"	5 500	7 875

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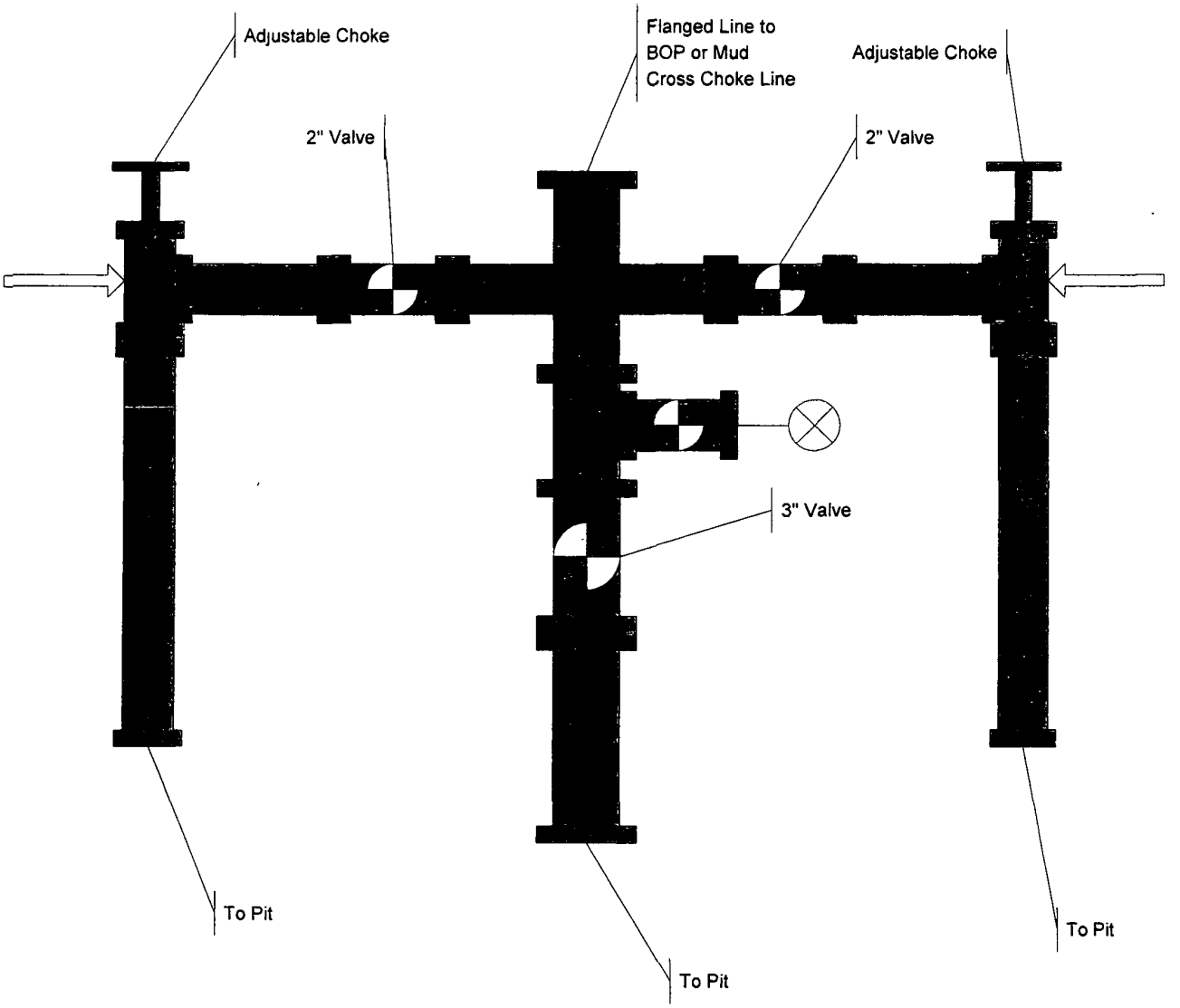
Site:	Haynie #3	**North Reference:**	True
Well:	Haynie #3	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Haynie #3		
Design:	Permitted WEllbore -- Haynie #3		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
775 96	775 00	Ojo Alamo SS		0 00	
910 15	907 00	Kirtland Shale		0 00	
1,708 11	1,662 00	Fruitland Formation		0 00	
2,367 90	2,282 00	Pictured Cliffs SS		0 00	
2,534 98	2,439.00	Lewis Shale		0 00	
3,519 34	3,364 00	Chacra SS		0 00	
4,098 81	3,913 00	Cliffhouse SS		0 00	
4,267 60	4,079 00	Menefee		0 00	
4,750.40	4,561 00	Point Lookout SS		0 00	
4,841 40	4,652 00	Mancos Shale		0 00	
6,041 40	5,852 00	Gallup SS		0 00	
6,737 40	6,548 00	Greenhorn LS		0 00	
6,839 40	6,650 00	Graneros		0.00	
6,875 40	6,686 00	Dakota 1		0 00	
6,892 40	6,703 00	Dakota 2		0 00	
6,967 40	6,778 00	Dakota 3		0 00	
7,009 40	6,820 00	Dakota 4		0 00	
7,042 40	6,853.00	Dakota 5		0.00	
7,079 40	6,890 00	Dakota 6		0 00	
7,140 40	6,951 00	Burro Canyon		0.00	
7,171 40	6,982 00	Morrison		0 00	

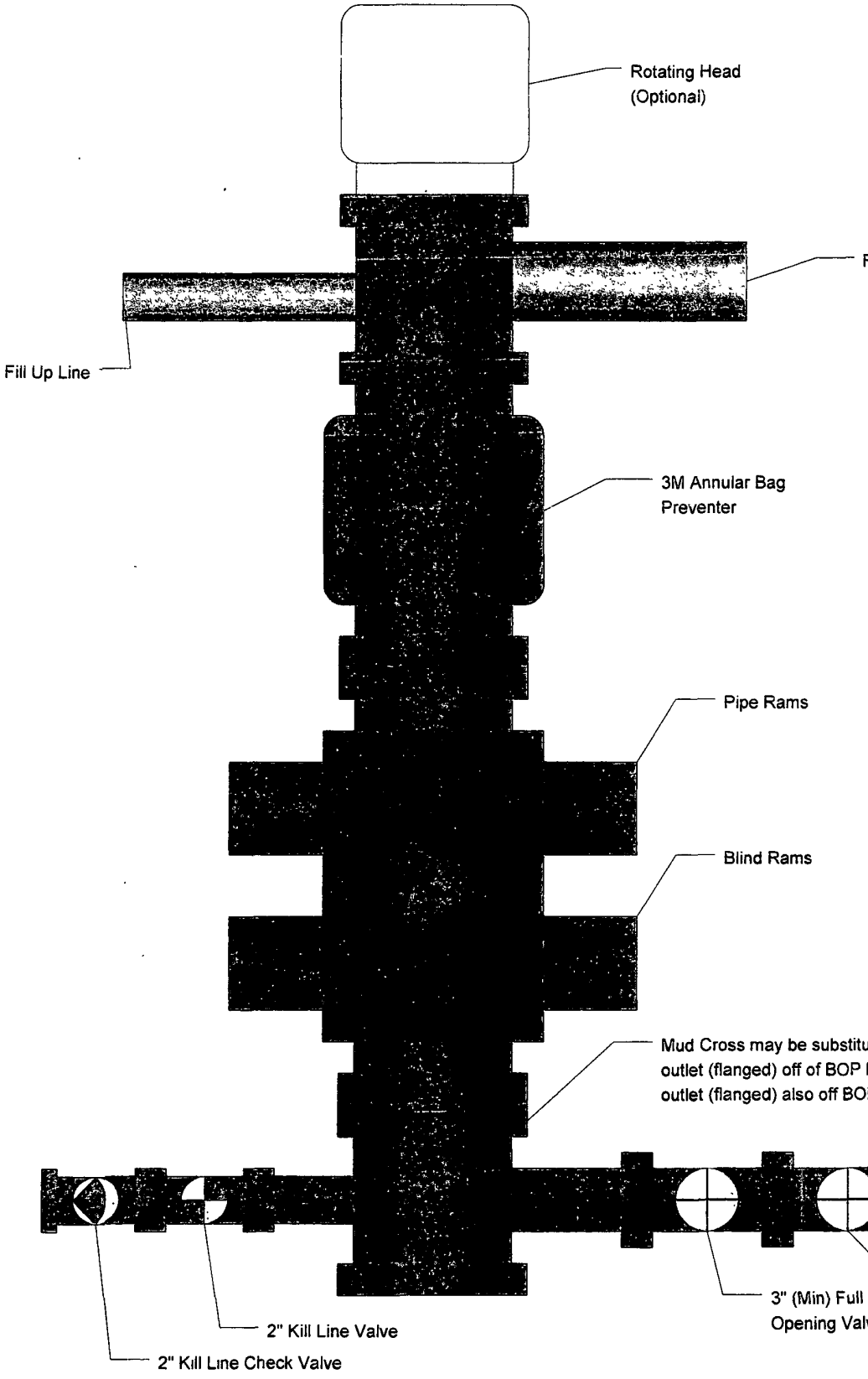
XTO Energy

3M Choke Manifold		



XTO Energy

3M BOP Stack		



Testing Procedure

1. Test Bop After Installation:
A.) Pressure test BOP to 200-300 psig (low pressure) for 5 minutes.
B.) Test BOP to Working pressure or 70% internal yield of surface casing for 10 minutes.
C.) Test Annular preventer to 50% of working pressure for 10 minutes.

2. Test operation of both rams on each trip
Test annular preventer function weekly

3 Check and record Accumulator pressure on every tour.

4 Re-pressure test BOP after changing rams or breaking any pressure tested seal.

5. Have kelly cock valve with handle available on rig floor.

6. Have safety valve and subs to fit all sizes of drill string

7. Record all BOP tests in IADC book.