

RECEIVED

Form 3160-3
(April 2004)

JUN 30 2011

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a Type of work ☒ DRILL ☐ REENTER		5 Lease Serial No NMNM-0468014
1b Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6 If Indian, Allottee or Tribe Name N/A
2 Name of Operator XTO Energy Inc.		7 If Unit or CA Agreement, Name and No. N/A
3a Address 382 CR 3100 Aztec, NM 87410	3b Phone No. (include area code) 505/ 333-3100	8 Lease Name and Well No. ML KING #22H
4 Location of Well (Report location clearly and in accordance with any State requirements *) At surface 2069 FSL x 410' FWL At proposed prod zone 700' FSL x 700' FEL		9 API Well No. 30-045- 35802
14 Distance in miles and direction from nearest town or post office* Approximately 22 miles S of Bloomfield P.O.		10 Field and Pool, or Exploratory BASIN FRUITLAND COAL
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 410'		11 Sec., T. R. M or Blk and Survey or Area (L) Sec 20, T25N, R10W
16 No of acres in lease 800	17 Spacing Unit dedicated to this well S/2 320	12 County or Parish SAN JUAN
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 746'	19 Proposed Depth 5486' 'MD/ 1534' TVD	13 State NM
20 BLM/BIA Bond No. on file UTB000138	21 Elevations (Show whether DF, KDB, RT, GL, etc) 6582' Ground Elevation	22 Approximate date work will start* 08/15/2011
23 Estimated duration 2 Weeks		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer

25 Signature *Malia Villers* Name (Printed/Typed) **Malia Villers** Date **6/29/11**

Title **Permitting Tech.**

Approved by (Signature) *[Signature]* Name (Printed/Typed) **AFM** Date **9/16/11**

Title **AFM** Office **FEO**

Application approval 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
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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

*(Instructions on page 2)

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

SEP 28 2011
NMOCDA

This action is subject to technical and procedural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

Hold C104
for Directional Survey
and "As Drilled" plat

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 30-045-35302	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 38832	⁵ Property Name ML KING	⁶ Well Number 22H
⁷ OGRID No 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6582'

¹⁰ Surface Location

UL or lot no	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	25-N	10-W		2069	SOUTH	410	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	25-N	10-W		700	SOUTH	700	EAST	SAN JUAN
¹² Dedicated Acres 5/2 320			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

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

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 10/29/10
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 knowledge and belief

OCTOBER 12 2010
Date of Survey
Signature and Seal of Registered Professional Land Surveyor

Robert A. Rush
2010
Certificate Number

SURFACE:
LAT: 36.38493° N. (NAD 83)
LONG: 107.92739° W. (NAD 83)
LAT: 36°23'05.71" N. (NAD 27)
LONG: 107°55'36.36" W. (NAD 27)

BOTTOM HOLE:
LAT: 36.38121° N. (NAD 83)
LONG: 107.91325° W. (NAD 83)
LAT: 36°22'52.33" N. (NAD 27)
LONG: 107°54'45.47" W. (NAD 27)

B.H.L.

XTO ENERGY INC.

ML King # 22H

APD Data

January 27, 2011

Location: 2069' FSL x 410' FWL Sec 20, T25N, R10W County: San Juan State: New Mexico
Bottomhole Location: 700' FSL x 700' FEL Sec 20, T25N, R10W

GREATEST PROJECTED TVD: 1534'

APPROX GR ELEV: 6582'

GREATEST PROJECTED MD: 5486'

Est KB ELEV: 6594' (12' AGL)

OBJECTIVE: Fruitland Coal

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2060'	2060' 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 $\pm 2060'$ MD, 1519' 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'-2060	2060'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	4.50	6.0	5.99

Production Casing: 4.5" casing to be set at $\pm 5486'$ MD, 1534' 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
2000'-5486'	3486'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.98	7.15	3.61

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 $\pm 2060'$ MD, 1519' TVD in 8.75" hole.

LEAD:

± 107 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 434 ft³.

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 5486' MD, 1534' 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
1/27/11

XTO Energy

San Juan Basin (NAD 83)

ML King #22H

ML King #22H

ML King #22H

Plan: Permitted Wellbore -- ML King #22H

Standard Planning Report

20 January, 2011

XTO Energy Inc.
Planning Report

Database: EDM 2003 21 Single User Db
Company: XTO Energy
Project: San Juan Basin (NAD 83)
Site: ML King #22H
Well: ML King #22H
Wellbore: ML King #22H
Design: Permitted Wellbore -- ML King #22H

Local Co-ordinate Reference: Well ML King #22H
TVD Reference: Rig KB @ 6594 00ft (Aztec 507)
MD Reference: Rig KB @ 6594 00ft (Aztec 507)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project: San Juan Basin (NAD 83), San Juan Co , NM,

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Western Zone
System Datum: Mean Sea Level

Site: ML King #22H, T 25N, R10W

Site Position: Northing: 1,959,430 15 ft Latitude: 36° 23' 5 748 N
From: Lat/Long Easting: 2,695,406 72 ft Longitude: 107° 55' 38 604 W
Position Uncertainty: 0 00 ft Slot Radius: in Grid Convergence: -0 06 °

Well: ML King #22H, Horizontal FC

Well Position +N/-S 0 00 ft Northing: 1,959,430 15 ft Latitude: 36° 23' 5 748 N
+E/-W 0 00 ft Easting: 2,695,406 72 ft Longitude: 107° 55' 38 604 W
Position Uncertainty 0 00 ft Wellhead Elevation: 6,582 00 ft Ground Level: 6,582 00 ft

Wellbore: ML King #22H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10 08	63 17	50,681

Design: Permitted Wellbore -- ML King #22H

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	108 02

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	
564 13	0 00	0 00	564 13	0 00	0 00	0 00	0 00	0 00	0 00	
2,059 96	89 75	108 02	1,519 05	-294 10	904 13	6 00	6 00	0 00	108 02	
5,486 12	89 75	108 02	1,534 00	-1,353 89	4,162 22	0 00	0 00	0 00	0 00	Proposed BHL -- ML I

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 MD Reference: Rig KB @ 6594.00ft (Aztec 507)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
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
564 13	0 00	0 00	564 13	0 00	0 00	0 00	0 00	0 00	0 00
600 00	2 15	108 02	599 99	-0 21	-0 64	0 67	6 00	6 00	0 00
632 06	4 08	108 02	632 00	-0 75	2 30	2 41	6 00	6 00	0 00
Ojo Alamo SS									
650 00	5 15	108 02	649 88	-1 19	3 67	3 86	6 00	6 00	0 00
700 00	8 15	108 02	699 54	-2 98	9 18	9 65	6 00	6 00	0 00
726 79	9 76	108 02	726 00	-4 27	13 14	13 82	6 00	6 00	0 00
Kirtland Shale									
750 00	11 15	108 02	748 83	-5 58	17 15	18 03	6 00	6 00	0 00
800 00	14 15	108 02	797 61	-8 97	27 56	28 98	6 00	6 00	0 00
850 00	17 15	108 02	845 75	-13 14	40 39	42 47	6 00	6 00	0 00
900 00	20 15	108 02	893 12	-18 08	55 59	58 46	6 00	6 00	0 00
950 00	23 15	108 02	939 58	-23 79	73 13	76 91	6 00	6 00	0 00
1,000 00	26 15	108 02	985 02	-30 24	92 96	97 76	6 00	6 00	0 00
1,050 00	29 15	108 02	1,029 31	-37 42	115 03	120 96	6 00	6 00	0 00
1,100 00	32 15	108 02	1,072.32	-45 30	139 27	146 45	6 00	6 00	0 00
1,109 10	32 70	108 02	1,080 00	-46 81	143 91	151 33	6 00	6 00	0 00
Fruitland Formation									
1,150 00	35 15	108 02	1,113 93	-53 87	165 61	174 15	6 00	6 00	0 00
1,200 00	38 15	108 02	1,154 04	-63 10	193 99	204 00	6 00	6 00	0 00
1,250 00	41 15	108 02	1,192 53	-72 97	224 33	235 90	6 00	6 00	0 00
1,300 00	44 15	108 02	1,229 30	-83 45	256 54	269 78	6 00	6 00	0 00
1,350 00	47 15	108 02	1,264 25	-94 51	290 54	305 53	6 00	6 00	0 00
1,400 00	50 15	108 02	1,297 28	-106 12	326 23	343 06	6 00	6 00	0 00
1,420 11	51 36	108 02	1,310 00	-110 94	341 04	358 63	6 00	6 00	0 00
Upper Fruitland Coal									
1,450 00	53 15	108 02	1,328 29	-118 25	363 52	382 27	6 00	6 00	0 00
1,500 00	56 15	108 02	1,357 22	-130 86	402 30	423 04	6 00	6 00	0 00
1,550 00	59 15	108 02	1,383 97	-143 92	442 46	465 28	6 00	6 00	0 00
1,600 00	62 15	108 02	1,408 47	-157 40	483 90	508 86	6 00	6 00	0 00
1,650 00	65 15	108 02	1,430 66	-171 26	526 51	553 66	6 00	6 00	0 00
1,700 00	68 15	108 02	1,450 47	-185 46	570 15	599 56	6 00	6 00	0 00
1,750 00	71 15	108 02	1,467 86	-199 96	614 73	646 43	6 00	6 00	0 00
1,800 00	74 15	108 02	1,482 76	-214 72	660 11	694 15	6 00	6 00	0 00
1,850 00	77 15	108 02	1,495 15	-229 70	706 17	742 59	6 00	6 00	0 00
1,900 00	80 15	108 02	1,504 99	-244 87	752 78	791 61	6 00	6 00	0 00
1,950 00	83 15	108 02	1,512 25	-260 17	799 82	841 07	6 00	6 00	0 00
1,953 74	83 38	108 02	1,512 69	-261 32	803 35	844 78	6 00	6 00	0 00
Lower Fruitland Coal									
2,000 00	86 15	108 02	1,516 91	-275 56	847 16	890 85	6 00	6 00	0 00
2,050 00	89 15	108 02	1,518 96	-291 02	894 66	940 80	6 00	6 00	0 00
2,059 96	89 75	108 02	1,519 05	-294 10	904 13	950 76	6 00	6 00	0 00
2,060 00	89 75	108 02	1,519 05	-294 11	904 17	950 80	0 00	0 00	0 00
7"									
2,100 00	89 75	108 02	1,519 23	-306 48	942 21	990 80	0 00	0 00	0 00

XTO Energy Inc.

Planning Report

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 Company: XTO Energy
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 Well: ML King #22H
 Wellbore: ML King #22H
 Design: Permitted Wellbore -- ML King #22H

Local Co-ordinate Reference: Well ML King #22H
 TVD Reference: Rig KB @ 6594.00ft (Aztec 507)
 MD Reference: Rig KB @ 6594 00ft (Aztec 507)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
2,200 00	89.75	108 02	1,519.66	-337 41	1,037 30	1,090 80	0 00	0 00	0 00
2,300 00	89 75	108 02	1,520 10	-368 35	1,132 40	1,190 80	0 00	0 00	0 00
2,400 00	89 75	108 02	1,520 53	-399 28	1,227 49	1,290 80	0 00	0 00	0 00
2,500 00	89 75	108 02	1,520 97	-430 21	1,322 58	1,390 80	0 00	0 00	0 00
2,600 00	89 75	108 02	1,521 41	-461 14	1,417 68	1,490 79	0 00	0 00	0 00
2,700 00	89 75	108 02	1,521 84	-492 08	1,512 77	1,590 79	0 00	0 00	0 00
2,800 00	89 75	108 02	1,522 28	-523 01	1,607 87	1,690 79	0 00	0 00	0 00
2,900 00	89 75	108 02	1,522 72	-553 94	1,702 96	1,790 79	0 00	0 00	0 00
3,000 00	89 75	108 02	1,523 15	-584 87	1,798 06	1,890 79	0 00	0 00	0 00
3,100 00	89 75	108 02	1,523 59	-615 81	1,893 15	1,990 79	0 00	0 00	0 00
3,200 00	89 75	108 02	1,524 02	-646 74	1,988 25	2,090 79	0 00	0 00	0 00
3,300 00	89 75	108 02	1,524 46	-677 67	2,083 34	2,190 79	0 00	0 00	0 00
3,400 00	89 75	108 02	1,524 90	-708 60	2,178 44	2,290 79	0 00	0 00	0 00
3,500 00	89 75	108 02	1,525 33	-739 54	2,273 53	2,390 79	0 00	0 00	0 00
3,600 00	89 75	108 02	1,525 77	-770 47	2,368 63	2,490 78	0 00	0 00	0 00
3,700 00	89 75	108 02	1,526 21	-801 40	2,463 72	2,590 78	0 00	0 00	0 00
3,800 00	89 75	108 02	1,526 64	-832 33	2,558 81	2,690 78	0 00	0 00	0 00
3,900 00	89 75	108 02	1,527 08	-863 27	2,653 91	2,790 78	0 00	0 00	0 00
4,000 00	89 75	108 02	1,527 52	-894 20	2,749 00	2,890 78	0 00	0 00	0 00
4,100 00	89 75	108 02	1,527 95	-925 13	2,844 10	2,990 78	0 00	0 00	0 00
4,200 00	89 75	108 02	1,528 39	-956 06	2,939 19	3,090 78	0 00	0 00	0 00
4,300 00	89 75	108 02	1,528 82	-987 00	3,034 29	3,190 78	0 00	0 00	0 00
4,400 00	89 75	108 02	1,529 26	-1,017 93	3,129 38	3,290 78	0 00	0 00	0 00
4,500 00	89 75	108 02	1,529 70	-1,048 86	3,224 48	3,390 78	0 00	0 00	0 00
4,600 00	89 75	108 02	1,530 13	-1,079 79	3,319 57	3,490 78	0 00	0 00	0 00
4,700 00	89 75	108 02	1,530 57	-1,110 73	3,414 67	3,590 77	0 00	0 00	0 00
4,800 00	89 75	108 02	1,531 01	-1,141 66	3,509 76	3,690 77	0 00	0 00	0 00
4,900 00	89 75	108 02	1,531 44	-1,172 59	3,604 86	3,790 77	0 00	0 00	0 00
5,000 00	89 75	108 02	1,531 88	-1,203 52	3,699 95	3,890 77	0 00	0 00	0 00
5,100 00	89 75	108 02	1,532 32	-1,234 46	3,795 04	3,990 77	0 00	0 00	0 00
5,200 00	89 75	108 02	1,532.75	-1,265 39	3,890 14	4,090 77	0 00	0 00	0 00
5,300 00	89 75	108 02	1,533 19	-1,296.32	3,985 23	4,190 77	0 00	0 00	0 00
5,400 00	89 75	108 02	1,533 62	-1,327 26	4,080 33	4,290 77	0 00	0 00	0 00
5,486 12	89 75	108 02	1,534 00	-1,353 89	4,162 22	4,376 89	0 00	0 00	0 00

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 -- ML Kin			0 00	0 00	1,534 00	-1,353 89	4,162 22	1,958,072 21	2,699,567 61	36° 22' 52 356 N	107° 54' 47 700 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
2,060 00	1,519 05	7"	7 000	8 750
5,486 12	1,534 00	4 1/2"	4 500	6 125

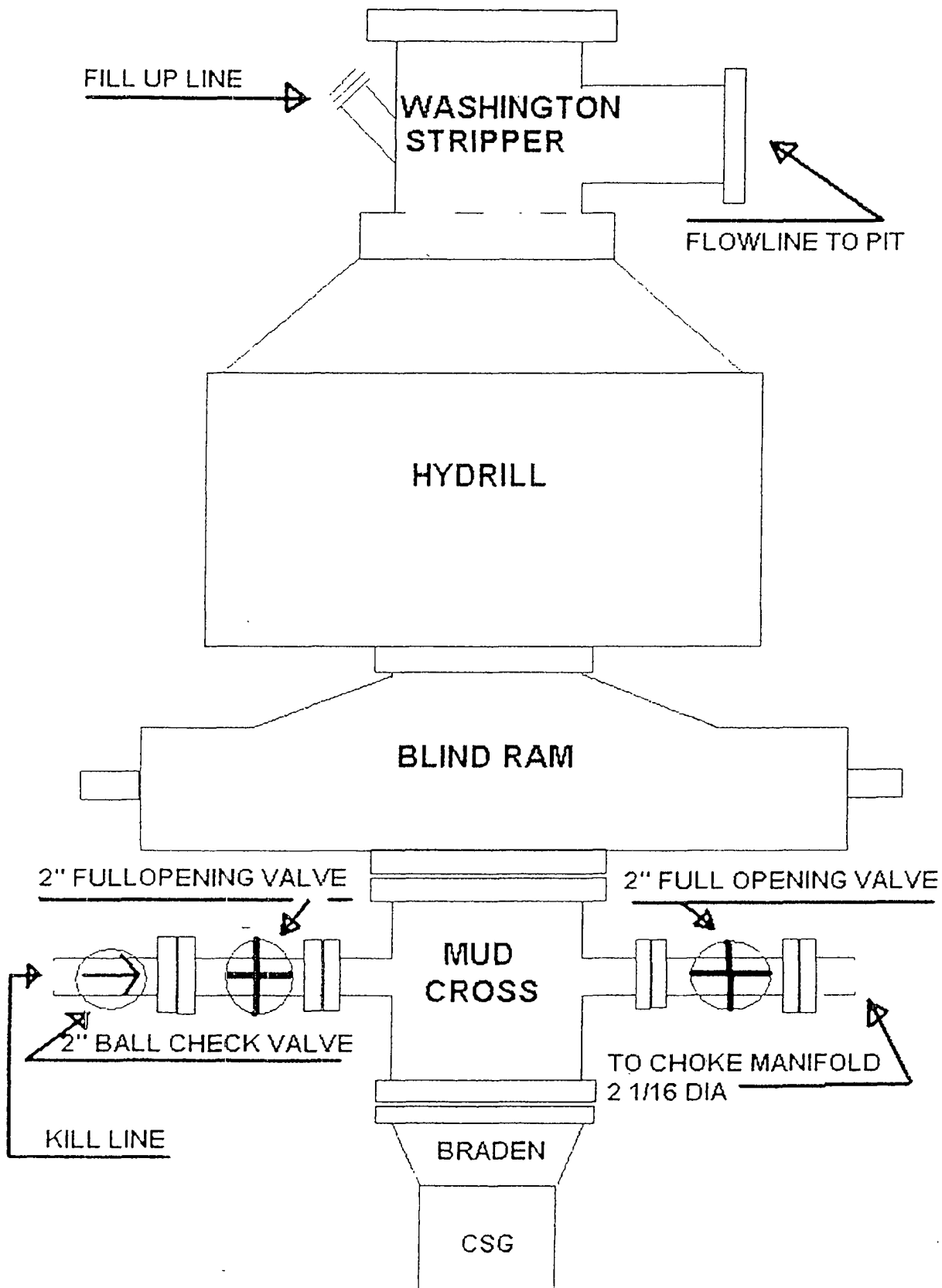
XTO Energy Inc.

Planning Report

Database: EDM 2003 21 Single User Db
Company: XTO Energy
Project: San Juan Basin (NAD 83)
Site: ML King #22H
Well: ML King #22H
Wellbore: ML King #22H
Design: Permitted Wellbore – ML King #22H

Local Co-ordinate Reference: Well ML King #22H
TVD Reference: Rig KB @ 6594 00ft (Aztec 507)
MD Reference: Rig KB @ 6594 00ft (Aztec 507)
North Reference: True
Survey/Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
632 06	632 00	Ojo Alamo SS		0 00		
726 79	726 00	Kirtland Shale		0 00		
1,109 10	1,080 00	Fruitland Formation		0 00		
1,420 11	1,310 00	Upper Fruitland Coal		0 00		
1,953 74	1,509 00	Lower Fruitland Coal		0 25	108 00	
	1,520 00	Base of Lower Coal		0 25	108 00	



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

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.

TESTING PROCEDURE

