

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 29 2011

Farmington Field

ENTER of Land Management

APPLICATION FOR PERMIT TO DRILL OR REENTER

Lease Serial No.
NMNM-0468014

If Indian, Allottee or Tribe Name
N/A

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

Lease Name and Well No.
ML KING #21H

API Well No.
30-045- 35301

Field and Pool, or Exploratory
BASIN FRUITLAND COAL

Sec, T, R, M or Blk and Survey or Area
(D) Sec 20, T25N, R10W

County or Parish
SAN JUAN

State
NM

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

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 (Report location clearly and in accordance with any State requirements *)
At surface 550' FNL x 410' FWL
At proposed prod zone 1930' FNL x 700 FEL

14. Distance in miles and direction from nearest town or post office*
Approximately 22.3 miles S of Bloomfield P.O.

15. Distance from proposed*
location to nearest
property or lease line, ft
(Also to nearest drig unit line, if any) 410'

16. No. of acres in lease
800

17. Spacing Unit dedicated to this well
N/2 320

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft 1186'

19. Proposed Depth
5472' MD/ 1510' TVD

20. BLM/BIA Bond No. on file
UTB000138

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6523' 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:

RCVD SEP 20 '11

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer

OIL CONS. DIV.

SECT 2

25. Signature
Malia Villers

Name (Printed/Typed)
Malia Villers

Date
6/28/11

Title
Permitting Tech.

Approved by (Signature)
AFM

Name (Printed/Typed)

Date
9/16/11

Title
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

Hold C104

for Directional Survey
and "As Drilled" plat

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

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

SEP 28 2011

AV

NMOCD

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

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 30-045-35301	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 38832	⁵ Property Name ML KING	⁶ Well Number 21H
⁷ OGRID No 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6523'

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
D	20	25-N	10-W		550	NORTH	410	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
H	20	25-N	10-W		1930	NORTH	700	EAST	SAN JUAN

¹² Dedicated Acres N/2 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

16 FD 2 1/2" BC 1932 G.L.O. 550' 410' S 00°00'07" E 2639.48' (M) SURFACE: LAT: 36.39225° N. (NAD 83) LONG: 107.92739° W. (NAD 83) LAT: 36°23'32.07" N (NAD 27) LONG 107°55'36.36" W. (NAD 27) FD 2 1/2" BC 1932 G.L.O. 20	N 89°59'21" W 2641.08' (M) N 89°59'15" E 2631.35' (M) BOTTOM HOLE: LAT: 36.38846° N. (NAD 83) LONG: 107.91326° W. (NAD 83) LAT 36°23'18.42" N (NAD 27) LONG: 107°54'45.51" W (NAD 27) FD 2 1/2" BC 1932 G.L.O.	17 FD 2 1/2" BC 1932 G.L.O. 1930' S 00°05'48" W 2632.79' (M) B.H.L. 700' 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. <i>Maria Villers</i> 6/28/11 Signature Date <i>Maria Villers</i> 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 2, 2010 Date of Survey <i>RUPA A. RUSH</i> Signature and Seal of Professional Surveyor REGISTERED PROFESSIONAL LAND SURVEYOR 8894 20-10 Certificate Number
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PRELIMINARY B.H.L.
B.H.L. FOOTAGES ARE APPROXIMATE
AND PROVIDED BY XTO ENERGY INC.
CLIENT

XTO ENERGY INC.

ML King # 21H

APD Data

January 28, 2011

Location: 550' FNL x 410' FWL Sec 20, T25N, R10W County: San Juan State: New Mexico
Bottomhole Location: 1930' FNL x 700' FEL Sec 20, T25N, R10W

GREATEST PROJECTED TVD: 1510'

APPROX GR ELEV: 6523'

GREATEST PROJECTED MD: 5472'

Est KB ELEV: 6535' (12' AGL)

OBJECTIVE: Fruitland Coal

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2043'	2043' 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 $\pm 2043'$ MD, 1501' 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'-2043'	2043'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	4.55	6.07	5.99

Production Casing: 4.5" casing to be set at $\pm 5472'$ MD, 1510' 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
1983'-5472'	3489'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	6.08	7.26	3.60

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 $\pm 2043'$ MD, 1501' TVD in 8.75" hole.

LEAD:

± 106 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 430 ft³.

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 5472' MD, 1510' 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
1/28/11

XTO Energy

San Juan Basin (NAD 83)

ML King #21H

ML King #21H

ML King #21H

Plan: permitted wellbore -- ML King #21H

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 #21H
Well: ML King #21H
Wellbore: ML King #21H
Design: permitted wellbore -- ML King #21H

Local Co-ordinate Reference: Well ML King #21H
TVD Reference: Rig KB @ 6535.00ft (Aztec 507)
MD Reference: Rig KB @ 6535.00ft (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

System Datum:

Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Western Zone

Site: ML King #21H, T25N, R10W

Site Position:	Northing:	1,962,094.87 ft	Latitude:	36° 23' 32.100 N
From: Lat/Long	Easting:	2,695,409.31 ft	Longitude:	107° 55' 38.604 W
Position Uncertainty:	Slot Radius:	in	Grid Convergence:	-0.06 °

Well: ML King #21H, Horizontal FC

Well Position	+N-S	0.00 ft	Northing:	1,962,094.87 ft	Latitude:	36° 23' 32.100 N
	+E-W	0.00 ft	Easting:	2,695,409.31 ft	Longitude:	107° 55' 38.604 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,523.00 ft	Ground Level:	6,523.00 ft

Wellbore: ML King #21H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.08	63.18	50,686

Design: permitted wellbore -- ML King #21H

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	108.35

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	
546.10	0.00	0.00	546.10	0.00	0.00	0.00	0.00	0.00	0.00	
2,043.60	89.85	108.35	1,501.02	-299.83	904.00	6.00	6.00	0.00	108.35	
5,472.85	89.85	108.35	1,510.00	-1,379.38	4,158.89	0.00	0.00	0.00	0.00	Proposed BHL -- ML I

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 MD Reference: Rig KB @ 6535 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
546 10	0 00	0 00	546 10	0 00	0 00	0 00	0 00	0 00	0 00
550 00	0 23	108 35	550 00	0 00	0 01	0 01	6 00	6 00	0 00
600 00	3 23	108 35	599 97	-0 48	1 44	1 52	6 00	6 00	0 00
621 08	4 50	108 35	621 00	-0 93	2 79	2 94	6 00	6 00	0 00
Ojo Alamo SS									
650 00	6 23	108 35	649 80	-1 78	5 36	5 65	6 00	6 00	0 00
700 00	9 23	108 35	699 33	-3 90	11 75	12 38	6 00	6 00	0 00
713 86	10 07	108 35	713 00	-4 63	13 95	14 70	6 00	6 00	0 00
Kirtland Shale									
750 00	12 23	108 35	748 45	-6 83	20 58	21 69	6 00	6 00	0 00
800 00	15 23	108 35	797 02	-10 56	31 85	33 56	6 00	6 00	0 00
850 00	18 23	108 35	844 90	-15 10	45 51	47 95	6 00	6 00	0 00
900 00	21 23	108 35	891 95	-20 41	61 54	64 83	6 00	6 00	0 00
950 00	24 23	108 35	938 06	-26 49	79 87	84 15	6 00	6 00	0 00
1,000 00	27 23	108 35	983 10	-33 33	100 48	105 86	6 00	6 00	0 00
1,050 00	30 23	108 35	1,026 94	-40 89	123 29	129 90	6 00	6 00	0 00
1,095 87	32 99	108 35	1,066 00	-48 46	146 11	153 94	6 00	6 00	0 00
Fruitland Formation									
1,100 00	33 23	108 35	1,069 46	-49 17	148 25	156 19	6 00	6 00	0 00
1,150 00	36 23	108 35	1,110 54	-58 14	175 29	184 68	6 00	6 00	0 00
1,200 00	39 23	108 35	1,150 08	-67 77	204 33	215 27	6 00	6 00	0 00
1,250 00	42 23	108 35	1,187 96	-78 04	235 29	247 90	6 00	6 00	0 00
1,300 00	45 23	108 35	1,224 09	-88 92	268 10	282 46	6 00	6 00	0 00
1,350 00	48 23	108 35	1,258 35	-100 38	302 65	318 86	6 00	6 00	0 00
1,400 00	51 23	108 35	1,290 67	-112 39	338 86	357 01	6 00	6 00	0 00
1,410 18	51 85	108 35	1,297 00	-114 90	346 43	364 99	6 00	6 00	0 00
Upper Fruitland Coal									
1,450 00	54 23	108 35	1,320 94	-124 91	376 62	396 80	6 00	6 00	0 00
1,500 00	57 23	108 35	1,349 09	-137 92	415 84	438 12	6 00	6 00	0 00
1,550 00	60 23	108 35	1,375 03	-151 37	456 40	480 85	6 00	6 00	0 00
1,600 00	63 23	108 35	1,398 71	-165 24	498 20	524 88	6 00	6 00	0 00
1,650 00	66 23	108 35	1,420 05	-179 47	541 11	570 09	6 00	6 00	0 00
1,700 00	69 23	108 35	1,438 99	-194 03	585 02	616 36	6 00	6 00	0 00
1,750 00	72 23	108 35	1,455 49	-208 89	629 82	663 56	6 00	6 00	0 00
1,800 00	75 23	108 35	1,469 49	-224 00	675 37	711 55	6 00	6 00	0 00
1,850 00	78 23	108 35	1,480 96	-239 32	721 56	760 21	6 00	6 00	0 00
1,900 00	81 23	108 35	1,489 87	-254 81	768 25	809 40	6 00	6 00	0 00
1,950 00	84 23	108 35	1,496 19	-270 42	815 32	859 00	6 00	6 00	0 00
1,958 02	84 72	108 35	1,496 97	-272 93	822 90	866 98	6 00	6 00	0 00
Lower Fruitland Coal									
2,000 00	87 23	108 35	1,499 91	-286 11	862 64	908 85	6 00	6 00	0 00
2,043 60	89 85	108 35	1,501 02	-299 83	904 01	952 43	6 00	6 00	0 00
7"									
2,100 00	89 85	108 35	1,501 17	-317 59	957 54	1,008 83	0 00	0 00	0 00
2,200 00	89 85	108 35	1,501 43	-349 07	1,052 46	1,108 83	0 00	0 00	0 00

XTO Energy Inc.

Planning Report

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

Local Co-ordinate Reference: Well ML King #21H
TVD Reference: Rig KB @ 6535.00ft (Aztec 507)
MD Reference: Rig KB @ 6535.00ft (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)
2,300.00	89.85	108.35	1,501.69	-380.55	1,147.37	1,208.83	0.00	0.00	0.00
2,400.00	89.85	108.35	1,501.96	-412.03	1,242.29	1,308.83	0.00	0.00	0.00
2,500.00	89.85	108.35	1,502.22	-443.51	1,337.20	1,408.83	0.00	0.00	0.00
2,600.00	89.85	108.35	1,502.48	-474.99	1,432.12	1,508.83	0.00	0.00	0.00
2,700.00	89.85	108.35	1,502.74	-506.47	1,527.03	1,608.83	0.00	0.00	0.00
2,800.00	89.85	108.35	1,503.00	-537.95	1,621.95	1,708.83	0.00	0.00	0.00
2,900.00	89.85	108.35	1,503.26	-569.43	1,716.86	1,808.83	0.00	0.00	0.00
3,000.00	89.85	108.35	1,503.53	-600.91	1,811.78	1,908.83	0.00	0.00	0.00
3,100.00	89.85	108.35	1,503.79	-632.39	1,906.69	2,008.83	0.00	0.00	0.00
3,200.00	89.85	108.35	1,504.05	-663.87	2,001.61	2,108.83	0.00	0.00	0.00
3,300.00	89.85	108.35	1,504.31	-695.35	2,096.52	2,208.83	0.00	0.00	0.00
3,400.00	89.85	108.35	1,504.57	-726.83	2,191.44	2,308.83	0.00	0.00	0.00
3,500.00	89.85	108.35	1,504.84	-758.31	2,286.35	2,408.83	0.00	0.00	0.00
3,600.00	89.85	108.35	1,505.10	-789.79	2,381.27	2,508.83	0.00	0.00	0.00
3,700.00	89.85	108.35	1,505.36	-821.28	2,476.18	2,608.83	0.00	0.00	0.00
3,800.00	89.85	108.35	1,505.62	-852.76	2,571.10	2,708.83	0.00	0.00	0.00
3,900.00	89.85	108.35	1,505.88	-884.24	2,666.02	2,808.83	0.00	0.00	0.00
4,000.00	89.85	108.35	1,506.14	-915.72	2,760.93	2,908.83	0.00	0.00	0.00
4,100.00	89.85	108.35	1,506.41	-947.20	2,855.85	3,008.83	0.00	0.00	0.00
4,200.00	89.85	108.35	1,506.67	-978.68	2,950.76	3,108.83	0.00	0.00	0.00
4,300.00	89.85	108.35	1,506.93	-1,010.16	3,045.68	3,208.83	0.00	0.00	0.00
4,400.00	89.85	108.35	1,507.19	-1,041.64	3,140.59	3,308.83	0.00	0.00	0.00
4,500.00	89.85	108.35	1,507.45	-1,073.12	3,235.51	3,408.83	0.00	0.00	0.00
4,600.00	89.85	108.35	1,507.71	-1,104.60	3,330.42	3,508.83	0.00	0.00	0.00
4,700.00	89.85	108.35	1,507.98	-1,136.08	3,425.34	3,608.82	0.00	0.00	0.00
4,800.00	89.85	108.35	1,508.24	-1,167.56	3,520.25	3,708.82	0.00	0.00	0.00
4,900.00	89.85	108.35	1,508.50	-1,199.04	3,615.17	3,808.82	0.00	0.00	0.00
5,000.00	89.85	108.35	1,508.76	-1,230.52	3,710.08	3,908.82	0.00	0.00	0.00
5,100.00	89.85	108.35	1,509.02	-1,262.00	3,805.00	4,008.82	0.00	0.00	0.00
5,200.00	89.85	108.35	1,509.29	-1,293.48	3,899.91	4,108.82	0.00	0.00	0.00
5,300.00	89.85	108.35	1,509.55	-1,324.96	3,994.83	4,208.82	0.00	0.00	0.00
5,400.00	89.85	108.35	1,509.81	-1,356.44	4,089.74	4,308.82	0.00	0.00	0.00
5,472.85	89.85	108.35	1,510.00	-1,379.38	4,158.89	4,381.67	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
Proposed BHL -- ML Kin	0.00	0.00	1,510.00	-1,379.38	4,158.89	1,960,711.44	2,699,566.85	36° 23' 18.456 N	107° 54' 47.736 W
- plan hits target									
- Rectangle (sides W10.00 H10.00 D0.00)									

XTO Energy Inc.

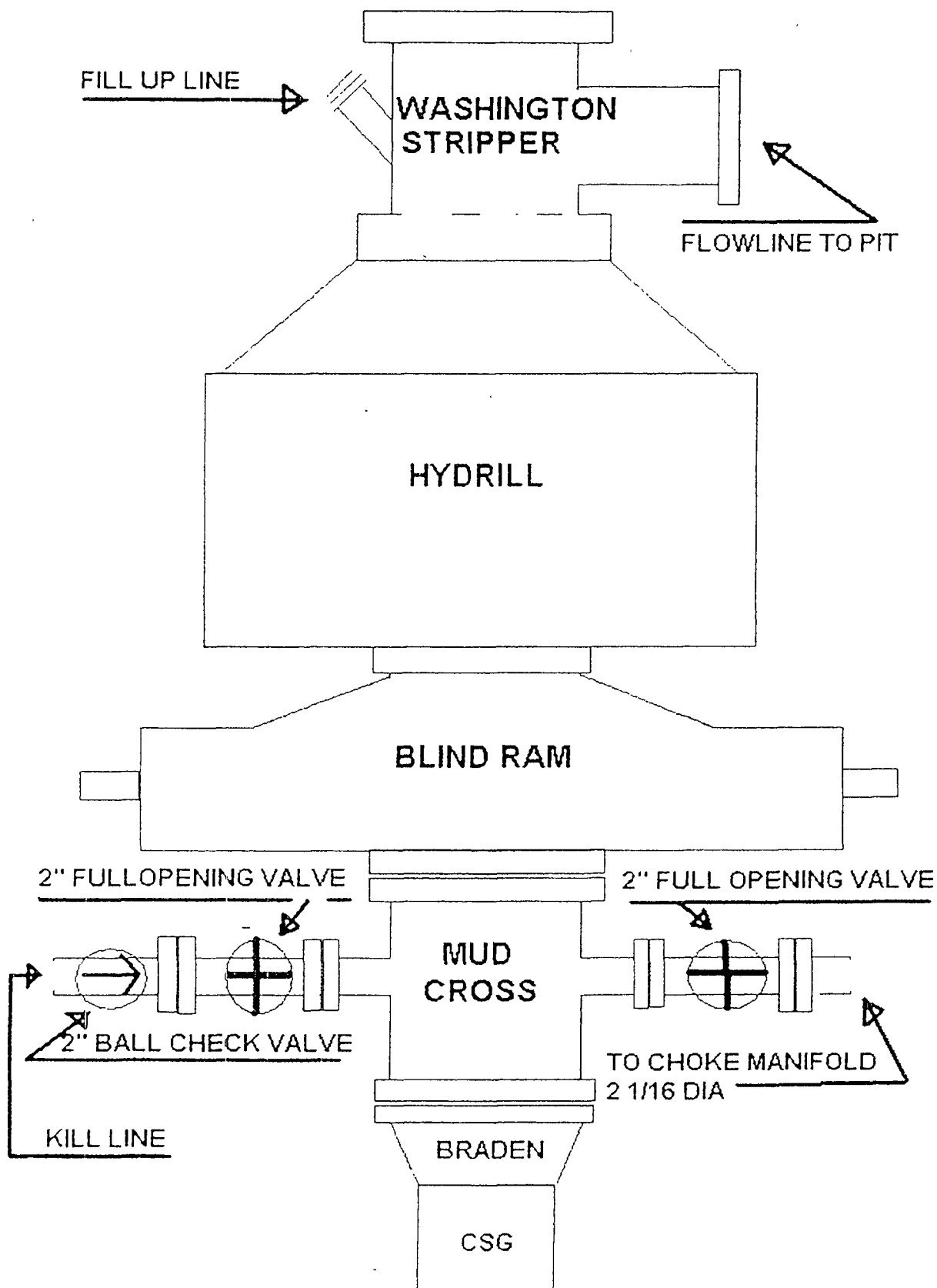
Planning Report

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

Local Co-ordinate Reference: Well ML King #21H
TVD Reference: Rig KB @ 6535 00ft (Aztec 507)
MD Reference: Rig KB @ 6535 00ft (Aztec 507)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	
2,043 60	1,501 02	7"	7 000	8 750	
5,472 85	1,510 00	4 1/2"	4 500	6 125	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
621 08	621 00	Ojo Alamo SS		0 00		
713 86	713 00	Kirtland Shale		0 00		
1,095 87	1,066 00	Fruitland Formation		0 00		
1,410 18	1,297 00	Upper Fruitland Coal		0 00		
1,958 02	1,495 00	Lower Fruitland Coal		0 13	108 00	
	1,506 00	Base of Lower Coal		0 13	108 00	
	1,510 00	Pictured Cliffs SS		0 13	108 00	



CHOKES 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

