

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

Form C-101
June 16, 2008

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

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 XTO Energy Inc. 382 CR 3100 AZTEC NM 87410		² OGRID Number 5380
		³ API Number 30-045- 35246
⁴ Property Code 304703	⁵ Property Name MOHAVE	⁶ Well No. #1H
⁹ Proposed Pool 1 BASIN FRUITLAND COAL		¹⁰ Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	31N	13W		885'	NORTH	686'	EAST	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
O	16	31N	13W		700'	SOUTH	1930'	EAST	SAN JUAN

Additional Well Information

¹¹ Work Type Code New Well	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 5768'
¹⁶ Multiple No	¹⁷ Proposed Depth 5425'	¹⁸ Formation Fruitland Coal	¹⁹ Contractor	²⁰ Spud Date 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	2248	124	
8.75	7	23	2248	100	
6.125	4.5	10.5	5425	0	

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.

Please see attached drilling program and horizontal plan.

RCVD DEC 15 '10

Hold C104
for Directional Survey
and "As Drilled" plat

OIL CONS. DIV.

DIST. 3

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: 12/14/2010

Phone:
505-333-3100

OIL CONSERVATION DIVISION

Approved by: *Charles L. ...* 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. 9 F/A + F/A wells

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised October 12, 2005

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35246	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 304703	⁵ Property Name MOHAVE	⁶ Well Number 1H
⁷ OGRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 5768'

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
A	16	31-N	13-W		885	NORTH	686	EAST	SAN JUAN

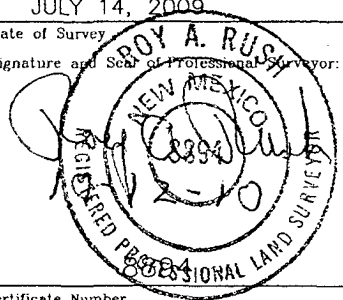
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	31-N	13-W		700	SOUTH	1930	EAST	SAN JUAN

¹² Dedicated Acres E/2 320.0	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

PRELIMINARY B.H.L. B.H.L. FOOTAGES ARE APPROXIMATE AND PROVIDED BY XTO ENERGY INC. CLIENT	FD. 3 1/4" BC. 1952 B.L.M.	N 89°55'28" W 2683.84' (M)	FD. 3 1/4" BC. 1952 B.L.M.	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. Maria Villers 12/14/10 Signature Date Maria Villers Printed Name
<u>SURFACE LOCATION</u> LAT: 36.90502° N. (NAD 83) LONG: 108.20253° W. (NAD 83) LAT: 36°54'18.09" N. (NAD 27) LONG: 108°12'06.83" W. (NAD 27)				
<u>BOTTOM HOLE</u> LAT: 36.89492° N. (NAD 83) LONG: 108.20696° W. (NAD 83) LAT: 36°53'41.72" N. (NAD 27) LONG: 108°12'22.79" W. (NAD 27)				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. JULY 14, 2009 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number
S 89°46'51" W 2730.34' (M)	FD. 3 1/4" BC. 1952 B.L.M.	B.H.L.	1930'	

XTO ENERGY INC.

Mohave #1H

APD Data

December 9, 2010

Location: 885' FNL x 686' FEL Sec 16, T31N, R13W County: San Juan State: New Mexico
Bottomhole Location: 700' FSL x 1930' FEL Sec 16, T31N, R13W

GREATEST PROJECTED TVD: 1833'

APPROX GR ELEV: 5768'

GREATEST PROJECTED MD: 5425'

Est KB ELEV: 5780' (12' AGL)

OBJECTIVE: Fruitland Coal

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2248'	2248' 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 $\pm 225'$ 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 $\pm 2248'$ MD, 1833' 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'-2248'	2248'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	3.73	4.97	5.49

Production Casing: 4.5" casing to be set at $\pm 5425'$ MD, 1806' 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
2188'-5425'	3237'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.01	5.98	3.88

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 $\pm 2248'$ MD, 1833' TVD in 8.75" hole.

LEAD:

± 124 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 473 ft³.

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 5425' MD, 1806' 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)

Mohave #1H

Mohave #1H

Mohave #1H

Plan: Mohave #1H-- Permitted wellbore

Standard Planning Report

08 December, 2010

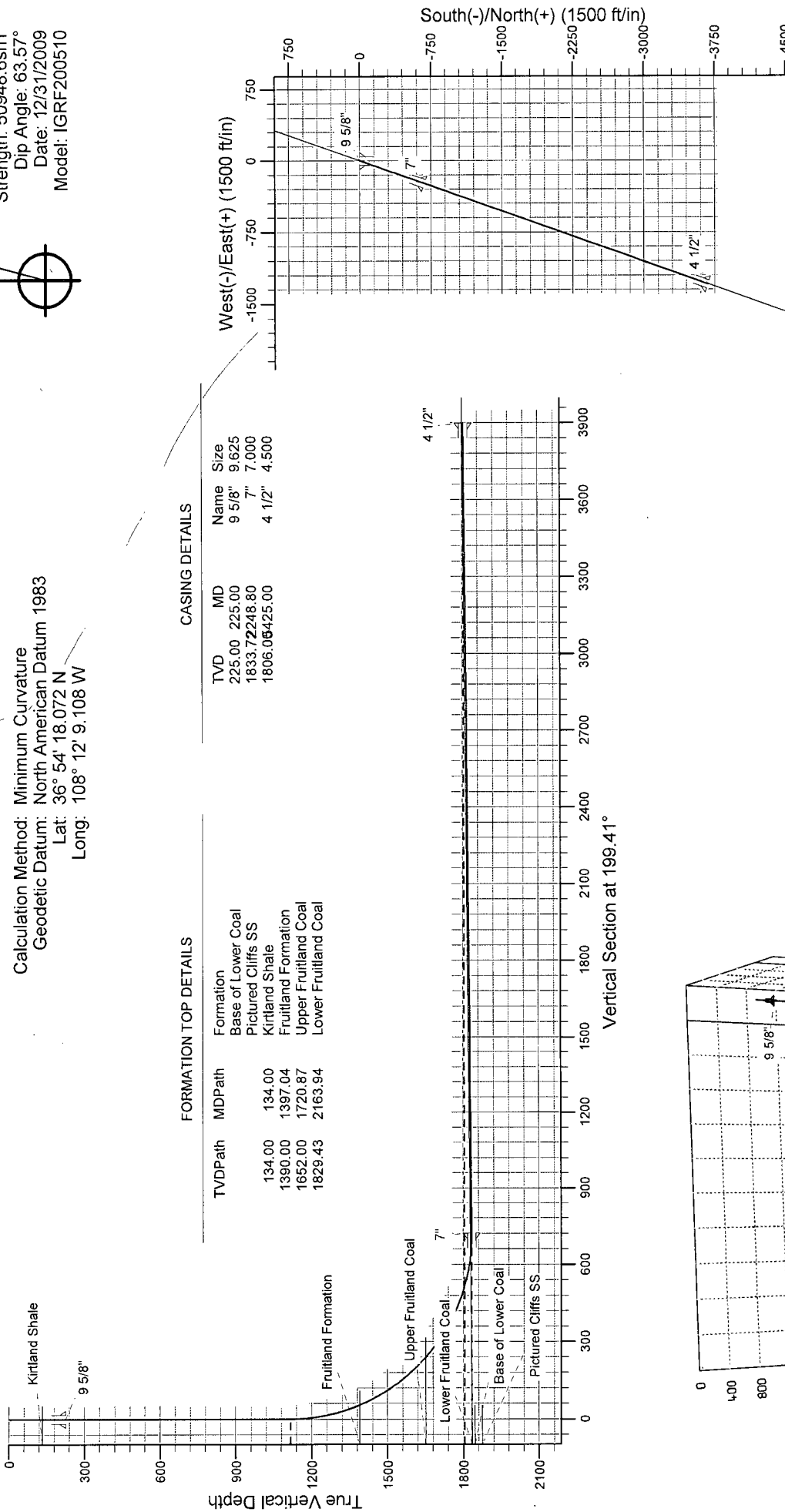


Well Name: Mohave #1H

San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 36° 54' 18.072 N
Long: 108° 12' 9.108 W

Azimuths to True North
Magnetic North: 10.26°
Magnetic Field
Strength: 50948.6snT
Dip Angle: 63.57°
Date: 12/31/2009
Model: IGRF200510



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
134.00	134.00	Base of Lower Coal
1390.00	1397.04	Pictured Cliffs SS
1652.00	1720.87	Kirtland Shale
1829.43	2163.94	Fruitland Formation
		Upper Fruitland Coal
		Lower Fruitland Coal

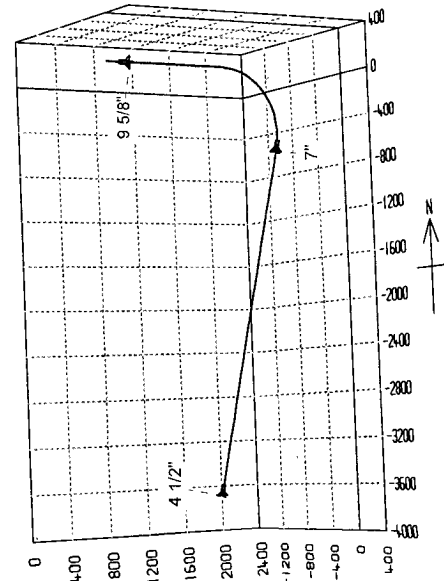
CASING DETAILS

TVD	MD	Name	Size
225.00	225.00	9 5/8"	9.625
1833.72	248.80	7"	7.000
1806.05	425.00	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	0.00
2	1117.55	0.00	0.00	1117.55	0.00	0.00	0.00	0.00	0.00	0.00
3	2248.80	90.50	199.41	1833.72	-681.40	-240.05	8.00	199.41	722.45	
4	5425.04	90.50	199.41	1806.00	-3677.06	-1295.39	0.00	0.00	3898.57	

Mohave #1H -- Proposed BHL



XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Mohave #1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Site:	Mohave #1H	North Reference:	True
Well:	Mohave #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Mohave #1H		
Design:	Mohave #1H-- Permitted wellbore		

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	Mohave #1H, T31N, R13W		
Site Position:		Northing:	2,148,962.73 ft
From:	Lat/Long	Easting:	2,615,149.08 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	36° 54' 18.072 N
		Longitude:	108° 12' 9.108 W
		Grid Convergence:	-0.22 °

Well	Mohave #1H, FC Horizontal		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	5,768.00 ft
		Latitude:	36° 54' 18.072 N
		Longitude:	108° 12' 9.108 W
		Ground Level:	5,768.00 ft

Wellbore	Mohave #1H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	12/31/2009	10.26
			Dip Angle (°)
			63.57
			Field Strength (nT)
			50,949

Design	Mohave #1H-- Permitted wellbore		
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 (°)
			199.41

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth (ft)	(°)	(°)	Depth (ft)	(ft)	(ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,117.55	0.00	0.00	1,117.55	0.00	0.00	0.00	0.00	0.00	0.00	
2,248.80	90.50	199.41	1,833.72	-681.40	-240.05	8.00	8.00	0.00	199.41	
5,425.04	90.50	199.41	1,806.00	-3,677.06	-1,295.39	0.00	0.00	0.00	0.00	Mohave #1H -- Proj

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Mohave #1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Site:	Mohave #1H	North Reference:	True
Well:	Mohave #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Mohave #1H		
Design:	Mohave #1H-- Permitted wellbore		

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
134.00	0.00	0.00	134.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
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
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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,117.55	0.00	0.00	1,117.55	0.00	0.00	0.00	0.00	0.00	0.00
1,150.00	2.60	199.41	1,149.99	-0.69	-0.24	0.74	8.00	8.00	0.00
1,200.00	6.60	199.41	1,199.82	-4.47	-1.58	4.74	8.00	8.00	0.00
1,250.00	10.60	199.41	1,249.25	-11.52	-4.06	12.21	8.00	8.00	0.00
1,300.00	14.60	199.41	1,298.03	-21.80	-7.68	23.11	8.00	8.00	0.00
1,350.00	18.60	199.41	1,345.94	-35.27	-12.42	37.39	8.00	8.00	0.00
1,397.04	22.36	199.41	1,390.00	-50.79	-17.89	53.85	8.00	8.00	0.00
Fruitland Formation									
1,400.00	22.60	199.41	1,392.73	-51.85	-18.27	54.98	8.00	8.00	0.00
1,450.00	26.60	199.41	1,438.19	-71.48	-25.18	75.79	8.00	8.00	0.00
1,500.00	30.60	199.41	1,482.08	-94.05	-33.13	99.71	8.00	8.00	0.00
1,550.00	34.60	199.41	1,524.20	-119.45	-42.08	126.64	8.00	8.00	0.00
1,600.00	38.60	199.41	1,564.33	-147.56	-51.98	156.44	8.00	8.00	0.00
1,650.00	42.60	199.41	1,602.29	-178.24	-62.79	188.97	8.00	8.00	0.00
1,700.00	46.60	199.41	1,637.89	-211.34	-74.45	224.07	8.00	8.00	0.00
1,720.87	48.27	199.41	1,652.00	-225.83	-79.56	239.44	8.00	8.00	0.00
Upper Fruitland Coal									
1,750.00	50.60	199.41	1,670.95	-246.71	-86.91	261.57	8.00	8.00	0.00
1,800.00	54.60	199.41	1,701.31	-284.16	-100.11	301.28	8.00	8.00	0.00
1,850.00	58.60	199.41	1,728.83	-323.52	-113.97	343.01	8.00	8.00	0.00
1,900.00	62.60	199.41	1,753.38	-364.60	-128.44	386.56	8.00	8.00	0.00
1,950.00	66.60	199.41	1,774.82	-407.19	-143.45	431.72	8.00	8.00	0.00
2,000.00	70.60	199.41	1,793.07	-451.09	-158.91	478.26	8.00	8.00	0.00
2,050.00	74.60	199.41	1,808.02	-496.08	-174.76	525.96	8.00	8.00	0.00
2,100.00	78.60	199.41	1,819.61	-541.94	-190.92	574.59	8.00	8.00	0.00
2,150.00	82.60	199.41	1,827.77	-588.46	-207.31	623.91	8.00	8.00	0.00
2,163.94	83.71	199.41	1,829.43	-601.51	-211.91	637.74	8.00	8.00	0.00
Lower Fruitland Coal									
2,200.00	86.60	199.41	1,832.48	-635.40	-223.84	673.67	8.00	8.00	0.00
2,248.80	90.50	199.41	1,833.72	-681.40	-240.05	722.45	8.00	8.00	0.00
7"									
2,300.00	90.50	199.41	1,833.27	-729.69	-257.06	773.65	0.00	0.00	0.00
2,400.00	90.50	199.41	1,832.40	-824.01	-290.29	873.64	0.00	0.00	0.00
2,500.00	90.50	199.41	1,831.53	-918.32	-323.52	973.64	0.00	0.00	0.00
2,600.00	90.50	199.41	1,830.65	-1,012.64	-356.74	1,073.64	0.00	0.00	0.00
2,700.00	90.50	199.41	1,829.78	-1,106.95	-389.97	1,173.63	0.00	0.00	0.00
2,800.00	90.50	199.41	1,828.91	-1,201.26	-423.19	1,273.63	0.00	0.00	0.00

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Mohave #1H
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Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Site:	Mohave #1H	North Reference:	True
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Wellbore:	Mohave #1H		
Design:	Mohave #1H-- Permitted wellbore		

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)
2,900.00	90.50	199.41	1,828.03	-1,295.58	-456.42	1,373.62	0.00	0.00	0.00
3,000.00	90.50	199.41	1,827.16	-1,389.89	-489.65	1,473.62	0.00	0.00	0.00
3,100.00	90.50	199.41	1,826.29	-1,484.21	-522.87	1,573.62	0.00	0.00	0.00
3,200.00	90.50	199.41	1,825.42	-1,578.52	-556.10	1,673.61	0.00	0.00	0.00
3,300.00	90.50	199.41	1,824.54	-1,672.84	-589.32	1,773.61	0.00	0.00	0.00
3,400.00	90.50	199.41	1,823.67	-1,767.15	-622.55	1,873.61	0.00	0.00	0.00
3,500.00	90.50	199.41	1,822.80	-1,861.47	-655.78	1,973.60	0.00	0.00	0.00
3,600.00	90.50	199.41	1,821.93	-1,955.78	-689.00	2,073.60	0.00	0.00	0.00
3,700.00	90.50	199.41	1,821.05	-2,050.10	-722.23	2,173.59	0.00	0.00	0.00
3,800.00	90.50	199.41	1,820.18	-2,144.41	-755.45	2,273.59	0.00	0.00	0.00
3,900.00	90.50	199.41	1,819.31	-2,238.73	-788.68	2,373.59	0.00	0.00	0.00
4,000.00	90.50	199.41	1,818.44	-2,333.04	-821.91	2,473.58	0.00	0.00	0.00
4,100.00	90.50	199.41	1,817.56	-2,427.36	-855.13	2,573.58	0.00	0.00	0.00
4,200.00	90.50	199.41	1,816.69	-2,521.67	-888.36	2,673.58	0.00	0.00	0.00
4,300.00	90.50	199.41	1,815.82	-2,615.99	-921.59	2,773.57	0.00	0.00	0.00
4,400.00	90.50	199.41	1,814.95	-2,710.30	-954.81	2,873.57	0.00	0.00	0.00
4,500.00	90.50	199.41	1,814.07	-2,804.61	-988.04	2,973.56	0.00	0.00	0.00
4,600.00	90.50	199.41	1,813.20	-2,898.93	-1,021.26	3,073.56	0.00	0.00	0.00
4,700.00	90.50	199.41	1,812.33	-2,993.24	-1,054.49	3,173.56	0.00	0.00	0.00
4,800.00	90.50	199.41	1,811.45	-3,087.56	-1,087.72	3,273.55	0.00	0.00	0.00
4,900.00	90.50	199.41	1,810.58	-3,181.87	-1,120.94	3,373.55	0.00	0.00	0.00
5,000.00	90.50	199.41	1,809.71	-3,276.19	-1,154.17	3,473.54	0.00	0.00	0.00
5,100.00	90.50	199.41	1,808.84	-3,370.50	-1,187.39	3,573.54	0.00	0.00	0.00
5,200.00	90.50	199.41	1,807.96	-3,464.82	-1,220.62	3,673.54	0.00	0.00	0.00
5,300.00	90.50	199.41	1,807.09	-3,559.13	-1,253.85	3,773.53	0.00	0.00	0.00
5,400.00	90.50	199.41	1,806.22	-3,653.45	-1,287.07	3,873.53	0.00	0.00	0.00
5,425.00	90.50	199.41	1,806.00	-3,677.03	-1,295.38	3,898.53	0.00	0.00	0.00
4 1/2"									
5,425.04	90.50	199.41	1,806.00	-3,677.06	-1,295.39	3,898.57	0.00	0.00	0.00

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									
Mohave #1H -- Propo	0.00	0.00	1,806.00	-3,677.06	-1,295.39	2,145,290.72	2,613,839.48	36° 53' 41.712 N	108° 12' 25.056 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	13.500	
2,248.80	1,833.72	7"	7.000	8.750	
5,425.00	1,806.00	4 1/2"	4.500	6.125	

XTO Energy Inc.

Planning Report

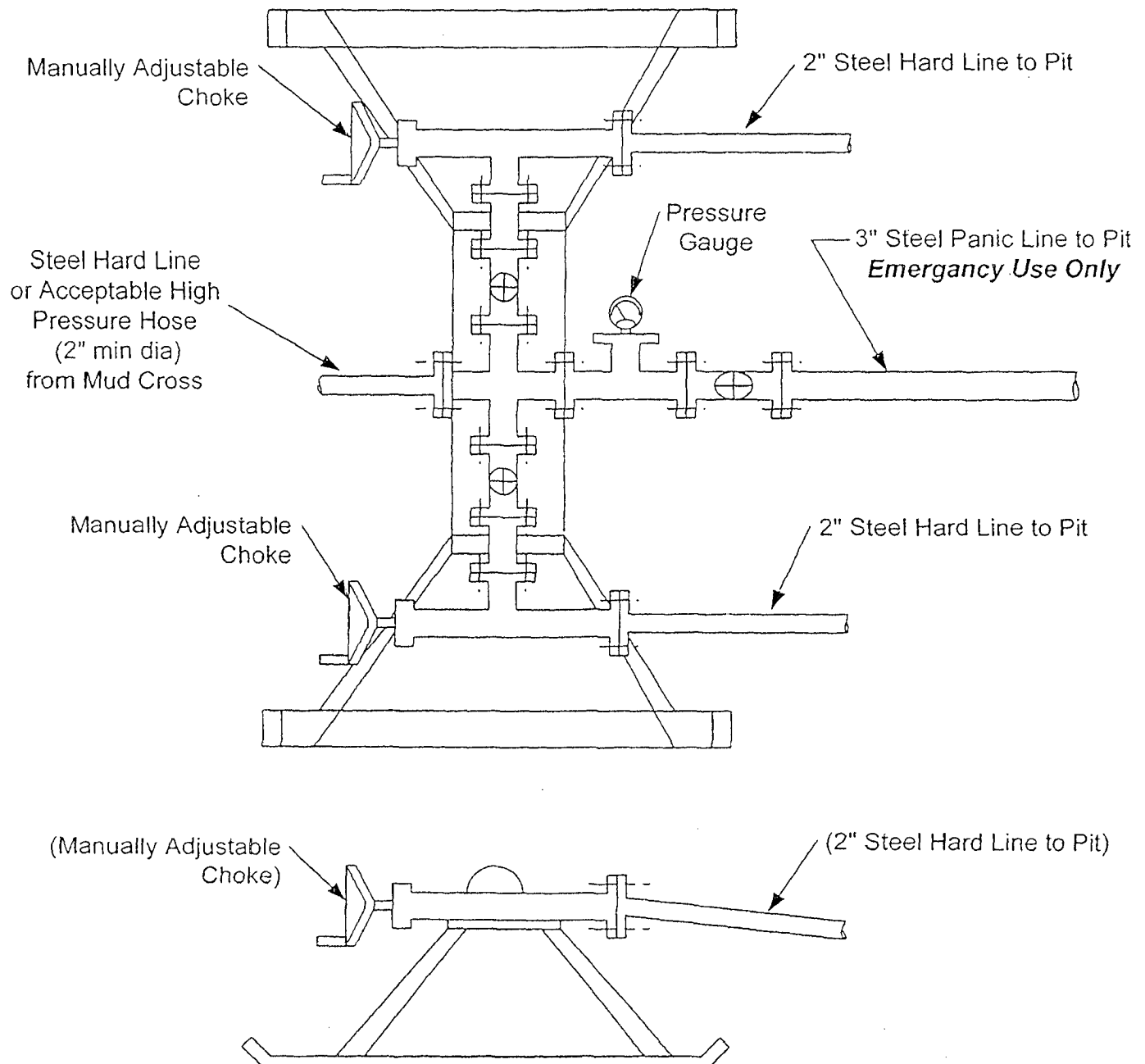
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Mohave #1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5780.00ft (Aztec 507)
Site:	Mohave #1H	North Reference:	True
Well:	Mohave #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Mohave #1H		
Design:	Mohave #1H-- Permitted wellbore		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
134.00	134.00	Kirtland Shale		0.00	
1,397.04	1,390.00	Fruitland Formation		0.00	
1,720.87	1,652.00	Upper Fruitland Coal		0.00	
2,163.94	1,835.00	Lower Fruitland Coal		-0.50	200.00
	1,846.00	Base of Lower Coal		-0.50	200.00
	1,875.00	Pictured Cliffs SS		-0.50	200.00

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



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.

