

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 272628

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

1. Operator Name and Address XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707		2. OGRID Number 5380
4. Property Code 325754		3. API Number 30-015-46333
5. Property Name LOS MEDANOS 36 23 30 STATE		6. Well No. 707H

7. Surface Location

UL - Lot O	Section 36	Township 23S	Range 30E	Lot Idn	Feet From 378	N/S Line S	Feet From 1931	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	---------	------------------	---------------	-------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot A	Section 36	Township 23S	Range 30E	Lot Idn A	Feet From 50	N/S Line N	Feet From 1210	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	--------------	-----------------	---------------	-------------------	---------------	----------------

9. Pool Information

WILDCAT; BONE SPRING	97944
----------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3401
16. Multiple N	17. Proposed Depth 15074	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/28/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	20	16	64	550	545	0
Int1	14.75	11.75	42	3900	1484	0
Int2	10.875	8.625	32	9475	1498	0
Prod	7.875	5.5	17	15074	704	8975

Casing/Cement Program: Additional Comments

DV tool may be set in 2nd intermediate between 3950-4300'.
--

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: Printed Name: Electronically filed by Deeann Kemp Title: Regulatory Email Address: DeeAnn_Kemp@xtoenergy.com Date: 9/24/2019	OIL CONSERVATION DIVISION Approved By: Raymond Podany Title: Geologist Approved Date: 10/4/2019 Expiration Date: 10/4/2021 Conditions of Approval Attached
---	--

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name LOS MEDANOS 36 23 30 STATE			⁶ Well Number 707H
⁷ OGRID No.		⁸ Operator Name			⁹ Elevation 3,401'

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
O	36	23 S	30 E		378	SOUTH	1,931	EAST	EDDY

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
A	36	23 S	30 E		50	NORTH	1,210	EAST	EDDY

¹² Dedicated Acres	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.

¹⁶ CORNER COORDINATES TABLE NAD 27 NME A - Y= 456,522.0 N, X= 657,097.8 E B - Y= 456,511.6 N, X= 655,761.5 E C - Y= 459,163.7 N, X= 657,084.7 E D - Y= 459,153.7 N, X= 655,746.9 E E - Y= 461,804.3 N, X= 657,073.0 E F - Y= 461,794.7 N, X= 655,732.9 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 456,581.1 N, X= 698,281.2 E B - Y= 456,570.7 N, X= 696,944.9 E C - Y= 459,222.9 N, X= 698,268.0 E D - Y= 459,212.9 N, X= 696,930.2 E E - Y= 461,863.6 N, X= 698,256.2 E F - Y= 461,854.0 N, X= 696,916.1 E GEODETIC COORDINATES SURFACE LOCATION NAD 83 NME Y= 456,944.1 X= 696,348.6 LAT.= 32.255219°N LONG.= 103.831887°W LAST TAKE POINT NAD 83 NME Y= 461,754.9 X= 697,046.7 LAT.= 32.268434°N LONG.= 103.829556°W GEODETIC COORDINATES SURFACE LOCATION NAD 27 NME Y= 456,884.9 X= 655,165.2 LAT.= 32.255097°N LONG.= 103.831400°W LAST TAKE POINT NAD 27 NME Y= 461,695.6 X= 655,863.5 LAT.= 32.268311°N LONG.= 103.829068°W FIRST TAKE POINT NAD 83 NME Y= 456,671.7 X= 697,070.7 LAT.= 32.254461°N LONG.= 103.829555°W BOTTOM HOLE LOCATION NAD 83 NME Y= 461,804.9 X= 697,046.5 LAT.= 32.268572°N LONG.= 103.829556°W FIRST TAKE POINT NAD 27 NME Y= 456,612.6 X= 655,887.3 LAT.= 32.254338°N LONG.= 103.829068°W BOTTOM HOLE LOCATION NAD 27 NME Y= 461,745.6 X= 655,863.3 LAT.= 32.268449°N LONG.= 103.829068°W				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. <i>Stephanie Rabadue</i> Signature Date Printed Name 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. 09-13-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number AW 2018020801					

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 10/4/2019

☒ Original

Operator & OGRID No.: [5380] XTO ENERGY, INC

☐ Amended - Reason for
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
LOS MEDANOS 36 23 30 STATE #707H	30-015-46333	O-36-23S-30E	0378S 1931E	1	Flared	Keystone Plant located in Sec. 5, BLK B2, PSL Survey, Winkler, TX. GCP attached

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 1306' of pipeline to connect the facility to Low Pressure gathering system. XTO ENERGY, INC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO ENERGY, INC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 05, Twn. 01N, Rng. 01W, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC Texas Pipeline, Ltd. system at that time. Based on current information, it is XTO ENERGY, INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 272628

PERMIT COMMENTS

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46333
		Well: LOS MEDANOS 36 23 30 STATE #707H

Created By	Comment	Comment Date
kkardos	- This well is located on an approved drill island and will comply with stipulations outlined in the 2012 SOPA. -XTO requests permission to batch drill the pad.	9/24/2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 272628

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46333
		Well: LOS MEDANOS 36 23 30 STATE #707H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 09/24/19

☒ Original Operator & OGRID No.: XTO ENERGY, INC. [005380]
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Los Medanos CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location	Footages	Expected MCF/D	Flared or Vented	Comments
Los Medanos 36-23-30 State 707H		O-36-23S-30E	378'FSL & 1931'FEL	0.7 MMCFD	Flared/Sold	
Los Medanos 36-23-30 State 708H		O-36-23S-30E	348'FSL & 1931'FEL	0.7 MMCFD	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC and will be connected to ETC low/high pressure gathering system located in Lea County, New Mexico. It will require 1306' of pipeline to connect the facility to low/high pressure gathering system. XTO provides (periodically) to ETC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO and ETC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Keystone Plant located in Sec. 5, BLK B2, PSL Survey, Winkler, TX. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC's system at that time. Based on current information, it is XTO's belief the system can take this gas upon completion of the well(s).

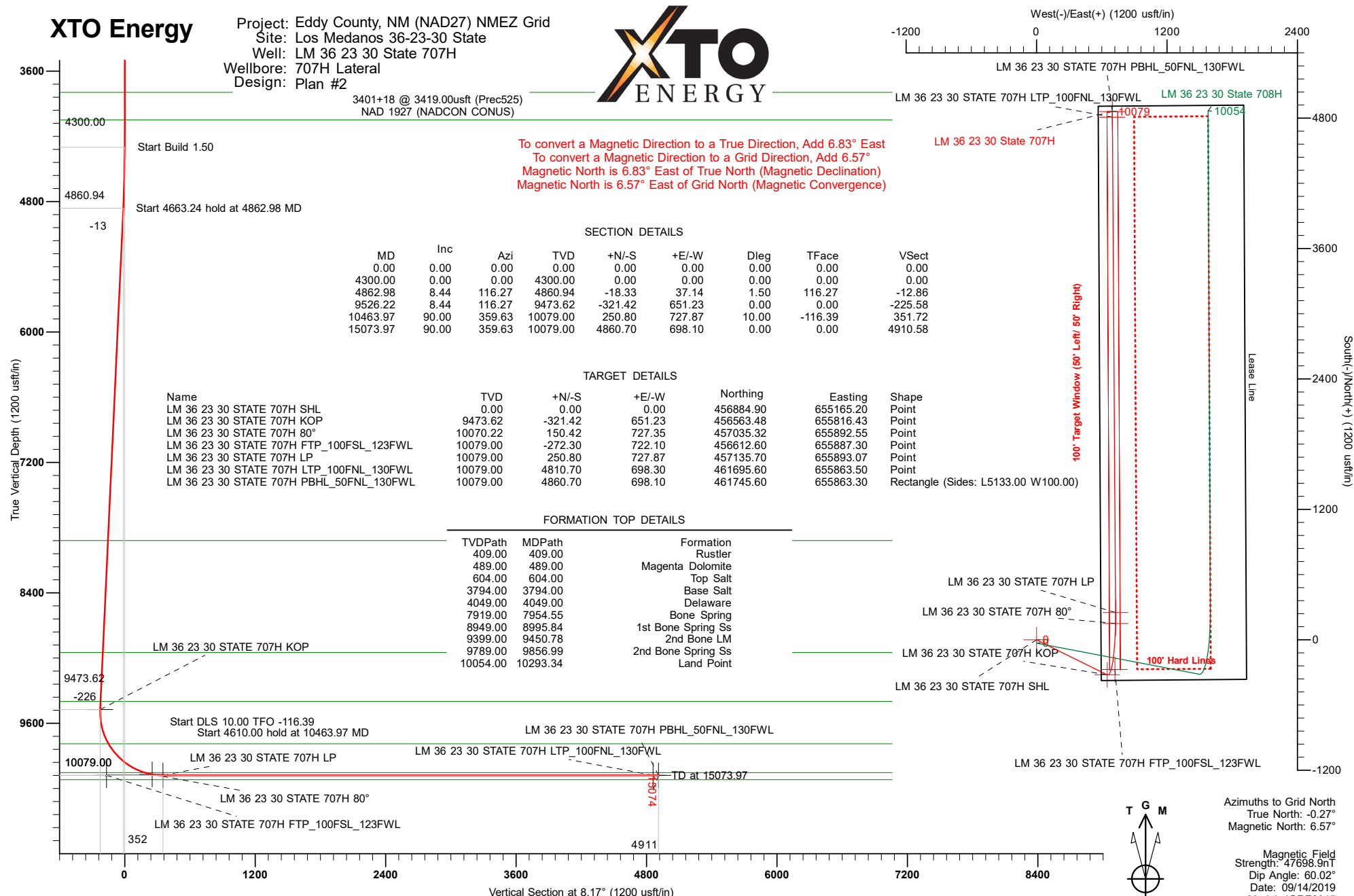
Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: LM 36 23 30 State 707H
Wellbore: 707H Lateral
Design: Plan #2



Plan: Plan #2 (LM 36 23 30 State 707H/707H Lateral)
Created By: Mekka Williams
eSomina Well Design
mekka@esominawelldesign.com
17:39, September 18 2019

STRYKER DIRECTIONAL
6701 FM 307
Midland, Texas 79706 - 432-687-1121



Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Project	Eddy County, NM (NAD27) NMEZ Grid		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Los Medanos 36-23-30 State		
Site Position:		Northing:	456,871.90 usft
From:	Map	Easting:	652,961.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 15' 18.31965009 N
		Longitude:	103° 50' 18.70409051 W
		Grid Convergence:	0.26 °

Well	LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL		
Well Position	+N/-S	13.00 usft	Northing: 456,884.90 usft
	+E/-W	2,203.80 usft	Easting: 655,165.20 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Ground Level: 3,401.00 usft

Wellbore	707H Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/14/19	6.83	60.02	47,698.86050658

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	8.17

Plan Survey Tool Program	Date	09/18/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,073.97	Plan #2 (707H Lateral)	MWD+IFR1+MS
				OWSG MWD + IFR1 + Multi-SI

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,862.98	8.44	116.27	4,860.94	-18.33	37.14	1.50	1.50	0.00	116.27	
9,526.22	8.44	116.27	9,473.62	-321.42	651.23	0.00	0.00	0.00	0.00	
10,463.97	90.00	359.63	10,079.00	250.80	727.87	10.00	8.70	-12.44	-116.39	
15,073.97	90.00	359.63	10,079.00	4,860.70	698.10	0.00	0.00	0.00	0.00	LM 36 23 30 STATE 7

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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
LM 36 23 30 STATE 707H SHL - LM 36 23 30 STATE 708H SHL									
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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
409.00	0.00	0.00	409.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
489.00	0.00	0.00	489.00	0.00	0.00	0.00	0.00	0.00	0.00
Magenta Dolomite									
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
604.00	0.00	0.00	604.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,794.00	0.00	0.00	3,794.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,049.00	0.00	0.00	4,049.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,400.00	1.50	116.27	4,399.99	-0.58	1.17	-0.41	1.50	1.50	0.00	
4,500.00	3.00	116.27	4,499.91	-2.32	4.69	-1.63	1.50	1.50	0.00	
4,600.00	4.50	116.27	4,599.69	-5.21	10.56	-3.66	1.50	1.50	0.00	
4,700.00	6.00	116.27	4,699.27	-9.26	18.76	-6.50	1.50	1.50	0.00	
4,800.00	7.50	116.27	4,798.57	-14.46	29.30	-10.15	1.50	1.50	0.00	
4,862.98	8.44	116.27	4,860.94	-18.33	37.14	-12.86	1.50	1.50	0.00	
4,900.00	8.44	116.27	4,897.56	-20.74	42.01	-14.55	0.00	0.00	0.00	
5,000.00	8.44	116.27	4,996.48	-27.24	55.18	-19.11	0.00	0.00	0.00	
5,100.00	8.44	116.27	5,095.39	-33.73	68.35	-23.68	0.00	0.00	0.00	
5,200.00	8.44	116.27	5,194.31	-40.23	81.52	-28.24	0.00	0.00	0.00	
5,300.00	8.44	116.27	5,293.23	-46.73	94.69	-32.80	0.00	0.00	0.00	
5,400.00	8.44	116.27	5,392.14	-53.23	107.86	-37.36	0.00	0.00	0.00	
5,500.00	8.44	116.27	5,491.06	-59.73	121.02	-41.92	0.00	0.00	0.00	
5,600.00	8.44	116.27	5,589.97	-66.23	134.19	-46.48	0.00	0.00	0.00	
5,700.00	8.44	116.27	5,688.89	-72.73	147.36	-51.04	0.00	0.00	0.00	
5,800.00	8.44	116.27	5,787.80	-79.23	160.53	-55.61	0.00	0.00	0.00	
5,900.00	8.44	116.27	5,886.72	-85.73	173.70	-60.17	0.00	0.00	0.00	
6,000.00	8.44	116.27	5,985.64	-92.23	186.87	-64.73	0.00	0.00	0.00	
6,100.00	8.44	116.27	6,084.55	-98.73	200.04	-69.29	0.00	0.00	0.00	
6,200.00	8.44	116.27	6,183.47	-105.23	213.21	-73.85	0.00	0.00	0.00	
6,300.00	8.44	116.27	6,282.38	-111.73	226.37	-78.41	0.00	0.00	0.00	
6,400.00	8.44	116.27	6,381.30	-118.23	239.54	-82.98	0.00	0.00	0.00	
6,500.00	8.44	116.27	6,480.22	-124.73	252.71	-87.54	0.00	0.00	0.00	
6,600.00	8.44	116.27	6,579.13	-131.23	265.88	-92.10	0.00	0.00	0.00	
6,700.00	8.44	116.27	6,678.05	-137.73	279.05	-96.66	0.00	0.00	0.00	
6,800.00	8.44	116.27	6,776.96	-144.23	292.22	-101.22	0.00	0.00	0.00	
6,900.00	8.44	116.27	6,875.88	-150.73	305.39	-105.78	0.00	0.00	0.00	
7,000.00	8.44	116.27	6,974.79	-157.23	318.56	-110.34	0.00	0.00	0.00	
7,100.00	8.44	116.27	7,073.71	-163.73	331.72	-114.91	0.00	0.00	0.00	
7,200.00	8.44	116.27	7,172.63	-170.23	344.89	-119.47	0.00	0.00	0.00	
7,300.00	8.44	116.27	7,271.54	-176.73	358.06	-124.03	0.00	0.00	0.00	
7,400.00	8.44	116.27	7,370.46	-183.23	371.23	-128.59	0.00	0.00	0.00	
7,500.00	8.44	116.27	7,469.37	-189.73	384.40	-133.15	0.00	0.00	0.00	
7,600.00	8.44	116.27	7,568.29	-196.23	397.57	-137.71	0.00	0.00	0.00	
7,700.00	8.44	116.27	7,667.21	-202.73	410.74	-142.28	0.00	0.00	0.00	
7,800.00	8.44	116.27	7,766.12	-209.23	423.91	-146.84	0.00	0.00	0.00	
7,900.00	8.44	116.27	7,865.04	-215.73	437.07	-151.40	0.00	0.00	0.00	
7,954.55	8.44	116.27	7,919.00	-219.27	444.26	-153.89	0.00	0.00	0.00	
Bone Spring										
8,000.00	8.44	116.27	7,963.95	-222.22	450.24	-155.96	0.00	0.00	0.00	
8,100.00	8.44	116.27	8,062.87	-228.72	463.41	-160.52	0.00	0.00	0.00	
8,200.00	8.44	116.27	8,161.78	-235.22	476.58	-165.08	0.00	0.00	0.00	
8,300.00	8.44	116.27	8,260.70	-241.72	489.75	-169.64	0.00	0.00	0.00	
8,400.00	8.44	116.27	8,359.62	-248.22	502.92	-174.21	0.00	0.00	0.00	
8,500.00	8.44	116.27	8,458.53	-254.72	516.09	-178.77	0.00	0.00	0.00	
8,600.00	8.44	116.27	8,557.45	-261.22	529.26	-183.33	0.00	0.00	0.00	
8,700.00	8.44	116.27	8,656.36	-267.72	542.42	-187.89	0.00	0.00	0.00	
8,800.00	8.44	116.27	8,755.28	-274.22	555.59	-192.45	0.00	0.00	0.00	
8,900.00	8.44	116.27	8,854.20	-280.72	568.76	-197.01	0.00	0.00	0.00	
8,995.84	8.44	116.27	8,949.00	-286.95	581.38	-201.39	0.00	0.00	0.00	

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1st Bone Spring Ss									
9,000.00	8.44	116.27	8,953.11	-287.22	581.93	-201.58	0.00	0.00	0.00
9,100.00	8.44	116.27	9,052.03	-293.72	595.10	-206.14	0.00	0.00	0.00
9,200.00	8.44	116.27	9,150.94	-300.22	608.27	-210.70	0.00	0.00	0.00
9,300.00	8.44	116.27	9,249.86	-306.72	621.44	-215.26	0.00	0.00	0.00
9,400.00	8.44	116.27	9,348.77	-313.22	634.61	-219.82	0.00	0.00	0.00
9,450.78	8.44	116.27	9,399.00	-316.52	641.29	-222.14	0.00	0.00	0.00
2nd Bone LM									
9,500.00	8.44	116.27	9,447.69	-319.72	647.78	-224.38	0.00	0.00	0.00
9,526.21	8.44	116.27	9,473.62	-321.42	651.23	-225.58	0.00	0.00	0.00
LM 36 23 30 STATE 707H KOP									
9,550.00	7.69	100.13	9,497.17	-322.48	654.36	-226.18	10.00	-3.19	-67.84
9,600.00	8.37	64.05	9,546.71	-321.47	660.93	-224.25	10.00	1.37	-72.16
9,650.00	11.43	40.64	9,595.98	-316.12	667.43	-218.02	10.00	6.13	-46.83
9,700.00	15.53	28.16	9,644.61	-306.45	673.82	-207.54	10.00	8.19	-24.96
9,750.00	20.03	20.98	9,692.21	-292.55	680.05	-192.90	10.00	9.00	-14.37
9,800.00	24.72	16.39	9,738.44	-274.51	686.07	-174.19	10.00	9.38	-9.18
9,850.00	29.50	13.19	9,782.93	-252.48	691.83	-151.56	10.00	9.57	-6.38
9,856.99	30.18	12.82	9,789.00	-249.09	692.61	-148.10	10.00	9.64	-5.31
2nd Bone Spring Ss									
9,900.00	34.34	10.83	9,825.36	-226.62	697.29	-125.19	10.00	9.69	-4.64
9,950.00	39.22	8.99	9,865.39	-197.14	702.42	-95.28	10.00	9.75	-3.68
10,000.00	44.12	7.49	9,902.73	-164.25	707.16	-62.05	10.00	9.80	-2.98
10,044.54	48.50	6.37	9,933.49	-132.28	711.03	-29.86	10.00	9.83	-2.52
LM 36 23 30 STATE 707H FTP_100FSL_123FWL									
10,050.00	49.04	6.24	9,937.09	-128.20	711.48	-25.75	10.00	9.85	-2.33
10,084.95	52.48	5.48	9,959.19	-101.28	714.24	1.29	10.00	9.85	-2.19
LM 36 23 30 STATE 708H FTP_100FSL_330FEL									
10,100.00	53.97	5.17	9,968.20	-89.27	715.36	13.33	10.00	9.86	-2.05
10,150.00	58.91	4.22	9,995.84	-47.76	718.76	54.91	10.00	9.87	-1.90
10,200.00	63.85	3.37	10,019.78	-3.98	721.66	98.65	10.00	9.89	-1.71
10,250.00	68.80	2.58	10,039.85	41.74	724.02	144.24	10.00	9.90	-1.57
10,293.34	73.09	1.94	10,054.00	82.66	725.64	184.98	10.00	9.90	-1.47
Land Point									
10,300.00	73.75	1.85	10,055.90	89.04	725.85	191.32	10.00	9.91	-1.43
10,350.00	78.70	1.15	10,067.80	137.57	727.11	239.54	10.00	9.91	-1.40
10,363.08	80.00	0.97	10,070.22	150.42	727.35	252.29	10.00	9.91	-1.36
LM 36 23 30 STATE 707H 80°									
10,400.00	83.66	0.47	10,075.46	186.96	727.81	288.53	10.00	9.91	-1.34
10,450.00	88.62	359.81	10,078.83	236.83	727.94	337.91	10.00	9.91	-1.32
10,463.97	90.00	359.63	10,079.00	250.80	727.87	351.73	10.00	9.91	-1.32
LM 36 23 30 STATE 707H LP									
10,500.00	90.00	359.63	10,079.00	286.82	727.64	387.35	0.00	0.00	0.00
10,600.00	90.00	359.63	10,079.00	386.82	726.99	486.24	0.00	0.00	0.00
10,700.00	90.00	359.63	10,079.00	486.82	726.35	585.14	0.00	0.00	0.00
10,800.00	90.00	359.63	10,079.00	586.82	725.70	684.03	0.00	0.00	0.00
10,900.00	90.00	359.63	10,079.00	686.82	725.05	782.92	0.00	0.00	0.00
11,000.00	90.00	359.63	10,079.00	786.81	724.41	881.81	0.00	0.00	0.00
11,100.00	90.00	359.63	10,079.00	886.81	723.76	980.70	0.00	0.00	0.00
11,200.00	90.00	359.63	10,079.00	986.81	723.12	1,079.59	0.00	0.00	0.00
11,300.00	90.00	359.63	10,079.00	1,086.81	722.47	1,178.48	0.00	0.00	0.00
11,400.00	90.00	359.63	10,079.00	1,186.81	721.83	1,277.37	0.00	0.00	0.00

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,500.00	90.00	359.63	10,079.00	1,286.80	721.18	1,376.26	0.00	0.00	0.00
11,600.00	90.00	359.63	10,079.00	1,386.80	720.53	1,475.15	0.00	0.00	0.00
11,700.00	90.00	359.63	10,079.00	1,486.80	719.89	1,574.04	0.00	0.00	0.00
11,800.00	90.00	359.63	10,079.00	1,586.80	719.24	1,672.93	0.00	0.00	0.00
11,900.00	90.00	359.63	10,079.00	1,686.80	718.60	1,771.82	0.00	0.00	0.00
12,000.00	90.00	359.63	10,079.00	1,786.79	717.95	1,870.71	0.00	0.00	0.00
12,100.00	90.00	359.63	10,079.00	1,886.79	717.30	1,969.60	0.00	0.00	0.00
12,200.00	90.00	359.63	10,079.00	1,986.79	716.66	2,068.49	0.00	0.00	0.00
12,300.00	90.00	359.63	10,079.00	2,086.79	716.01	2,167.38	0.00	0.00	0.00
12,400.00	90.00	359.63	10,079.00	2,186.79	715.37	2,266.27	0.00	0.00	0.00
12,500.00	90.00	359.63	10,079.00	2,286.78	714.72	2,365.16	0.00	0.00	0.00
12,600.00	90.00	359.63	10,079.00	2,386.78	714.08	2,464.05	0.00	0.00	0.00
12,700.00	90.00	359.63	10,079.00	2,486.78	713.43	2,562.94	0.00	0.00	0.00
12,800.00	90.00	359.63	10,079.00	2,586.78	712.78	2,661.84	0.00	0.00	0.00
12,900.00	90.00	359.63	10,079.00	2,686.77	712.14	2,760.73	0.00	0.00	0.00
13,000.00	90.00	359.63	10,079.00	2,786.77	711.49	2,859.62	0.00	0.00	0.00
13,100.00	90.00	359.63	10,079.00	2,886.77	710.85	2,958.51	0.00	0.00	0.00
13,200.00	90.00	359.63	10,079.00	2,986.77	710.20	3,057.40	0.00	0.00	0.00
13,300.00	90.00	359.63	10,079.00	3,086.77	709.56	3,156.29	0.00	0.00	0.00
13,400.00	90.00	359.63	10,079.00	3,186.76	708.91	3,255.18	0.00	0.00	0.00
13,500.00	90.00	359.63	10,079.00	3,286.76	708.26	3,354.07	0.00	0.00	0.00
13,600.00	90.00	359.63	10,079.00	3,386.76	707.62	3,452.96	0.00	0.00	0.00
13,700.00	90.00	359.63	10,079.00	3,486.76	706.97	3,551.85	0.00	0.00	0.00
13,800.00	90.00	359.63	10,079.00	3,586.76	706.33	3,650.74	0.00	0.00	0.00
13,900.00	90.00	359.63	10,079.00	3,686.75	705.68	3,749.63	0.00	0.00	0.00
14,000.00	90.00	359.63	10,079.00	3,786.75	705.04	3,848.52	0.00	0.00	0.00
14,100.00	90.00	359.63	10,079.00	3,886.75	704.39	3,947.41	0.00	0.00	0.00
14,200.00	90.00	359.63	10,079.00	3,986.75	703.74	4,046.30	0.00	0.00	0.00
14,300.00	90.00	359.63	10,079.00	4,086.75	703.10	4,145.19	0.00	0.00	0.00
14,400.00	90.00	359.63	10,079.00	4,186.74	702.45	4,244.08	0.00	0.00	0.00
14,500.00	90.00	359.63	10,079.00	4,286.74	701.81	4,342.97	0.00	0.00	0.00
14,600.00	90.00	359.63	10,079.00	4,386.74	701.16	4,441.86	0.00	0.00	0.00
14,700.00	90.00	359.63	10,079.00	4,486.74	700.51	4,540.75	0.00	0.00	0.00
14,800.00	90.00	359.63	10,079.00	4,586.74	699.87	4,639.64	0.00	0.00	0.00
14,900.00	90.00	359.63	10,079.00	4,686.73	699.22	4,738.54	0.00	0.00	0.00
15,000.00	90.00	359.63	10,079.00	4,786.73	698.58	4,837.43	0.00	0.00	0.00
LM 36 23 30 STATE 707H LTP_100FNL_130FWL - LM 36 23 30 STATE 708H LTP_100FNL_330FEL									
15,073.97	90.00	359.63	10,079.00	4,860.70	698.10	4,910.58	0.00	0.00	0.00
LM 36 23 30 STATE 708H PBHL_50FNL_330FEL - LM 36 23 30 STATE 707H PBHL_50FNL_130FWL									

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Company:	XTO Energy	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	North Reference:	Grid
Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	707H Lateral		
Design:	Plan #2		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LM 36 23 30 STATE 707 - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	456,884.90	655,165.20	2° 15' 18.34705614 N 3° 49' 53.04010121 W	
LM 36 23 30 STATE 707 - plan hits target center - Point	0.00	0.00	9,473.62	-321.42	651.23	456,563.48	655,816.43	2° 15' 15.13610536 N 3° 49' 45.47409572 W	
LM 36 23 30 STATE 707 - plan hits target center - Point	0.00	0.00	10,070.22	150.42	727.35	457,035.32	655,892.55	2° 15' 19.80187288 N 3° 49' 44.56187677 W	
LM 36 23 30 STATE 707 - plan misses target center by 202.24usft at 10044.54usft MD (9933.49 TVD, -132.28 N, 711.03 E) - Point	0.00	0.00	10,079.00	-272.30	722.10	456,612.60	655,887.30	2° 15' 15.61890105 N 3° 49' 44.64613549 W	
LM 36 23 30 STATE 707 - plan misses target center by 23.97usft at 15000.00usft MD (10079.00 TVD, 4786.73 N, 698.58 E) - Point	0.00	0.00	10,079.00	4,810.70	698.30	461,695.60	655,863.50	32° 16' 5.92106854 N 3° 49' 44.64520572 W	
LM 36 23 30 STATE 707 - plan hits target center - Point	0.00	0.00	10,079.00	250.80	727.87	457,135.70	655,893.07	2° 15' 20.79520402 N 3° 49' 44.55033030 W	
LM 36 23 30 STATE 707 - plan hits target center - Rectangle (sides W100.00 H5,133.00 D0.00)	0.00	0.00	10,079.00	4,860.70	698.10	461,745.60	655,863.30	32° 16' 6.41587427 N 3° 49' 44.64479873 W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
409.00	409.00	Rustler				
489.00	489.00	Magenta Dolomite				
604.00	604.00	Top Salt				
3,794.00	3,794.00	Base Salt				
4,049.00	4,049.00	Delaware				
7,954.55	7,919.00	Bone Spring				
8,995.84	8,949.00	1st Bone Spring Ss				
9,450.78	9,399.00	2nd Bone LM				
9,856.99	9,789.00	2nd Bone Spring Ss				
10,293.34	10,054.00	Land Point				

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well LM 36 23 30 State 707H - Slot LM 36 23 30 STATE 707H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3401+18 @ 3419.00usft (Prec525)
Reference Site:	Los Medanos 36-23-30 State	MD Reference:	3401+18 @ 3419.00usft (Prec525)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LM 36 23 30 State 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	707H Lateral	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum separation factor of 4.00	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	09/18/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,073.97	Plan #2 (707H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Los Medanos 36-23-30 State						
23SR30ES36 Offset - 1SH OFFSET - 1SH OFFSET						Out of range
LM 36 23 30 State 708H - 708H Lateral - Plan #3						Out of range
LOS MEDANOS 36-23-30 702H - 702H - 702H AsDrilled						Out of range
LOS MEDANOS 36-23-30 703H - 703H - 703H (AsDrilled						Out of range
Los Medanos 36-23-30 State 401H - 401H L1 - 401H L1						Out of range
Los Medanos 36-23-30 State 401H - 401H L2_ST - 401H						Out of range
Los Medanos 36-23-30 State 701H - 701H L1 - 701H L1						Out of range
Los Medanos 36-23-30 State 801H - 801H L1 - 801H L1						Out of range