

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

NMOCD-REC'D: 09/01/2020 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015- 45311	² Pool Code 97944	³ Pool Name WC-015 G-06 S233036D; Bone Spring
⁴ Property Code 325562	⁵ Property Name LOS MEDANOS 36-23-30	⁶ Well Number 401H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,411'

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
M	36	23 S	30 E		382	SOUTH	1,215	WEST	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
D	36	23 S	30 E		60	NORTH	330	WEST	EDDY

¹² Dedicated Acres 160	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.
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY

¹⁶ GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 456,931.1 X= 694,144.8 LAT.= 32.255212°N LONG.= 103.839016°W K.O.P. NAD 83 NME Y= 456,918.1 X= 693,396.5 LAT.= 32.255186°N LONG.= 103.841437°W FIRST TAKE POINT NAD 83 NME Y= 457,539.2 X= 693,247.0 LAT.= 32.256895°N LONG.= 103.841911°W LAST TAKE POINT NAD 83 NME Y= 461,629.1 X= 693,220.2 LAT.= 32.268137°N LONG.= 103.841937°W BOTTOM HOLE LOCATION NAD 83 NME Y= 461,766.8 X= 693,219.8 LAT.= 32.268516°N LONG.= 103.841937°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 461,824.6 N, X= 692,889.6 E B - Y= 461,834.5 N, X= 694,232.8 E C - Y= 459,182.9 N, X= 692,914.9 E D - Y= 459,192.9 N, X= 694,253.6 E E - Y= 456,540.4 N, X= 692,932.3 E F - Y= 456,550.3 N, X= 694,270.5 E CORNER COORDINATES TABLE NAD 27 NME A - Y= 461,765.3 N, X= 651,706.4 E B - Y= 461,775.2 N, X= 653,049.6 E C - Y= 459,123.7 N, X= 651,731.6 E D - Y= 459,133.7 N, X= 653,070.3 E E - Y= 456,481.2 N, X= 651,748.9 E F - Y= 456,491.2 N, X= 653,087.1 E	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 456,871.9 X= 652,961.4 LAT.= 32.255089°N LONG.= 103.838529°W K.O.P. NAD 27 NME Y= 456,858.9 X= 652,213.1 LAT.= 32.255063°N LONG.= 103.840950°W FIRST TAKE POINT NAD 27 NME Y= 457,480.0 X= 652,063.7 LAT.= 32.256772°N LONG.= 103.841424°W LAST TAKE POINT NAD 27 NME Y= 461,569.8 X= 652,037.0 LAT.= 32.268014°N LONG.= 103.841449°W BOTTOM HOLE LOCATION NAD 27 NME Y= 461,707.5 X= 652,036.6 LAT.= 32.268393°N LONG.= 103.841449°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. Cheryl Rowell 9/19/19 Signature Date Cheryl Rowell Printed Name cheryl_rowell@xtoenergy.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-19-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR/JC 2018081967
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Intent ☐ As Drilled ☒

API #
30-015-45311

Operator Name:	Property Name:	Well Number
XTO Permian Operating LLC	Los Medanos 36-23-30	401H

Kick Off Point (KOP)

UL M	Section 36	Township 23S	Range 30E	Lot	Feet 374	From N/S South	Feet 407	From E/W West	County Eddy
Latitude 32-255186					Longitude -103.841437			NAD 83	

First Take Point (FTP)

UL M	Section 36	Township 23S	Range 30E	Lot	Feet 996	From N/S South	Feet 321	From E/W West	County Eddy
Latitude 32.256895					Longitude -103.841911			NAD 83	

Last Take Point (LTP)

UL M	Section 36	Township 23S	Range 30E	Lot	Feet 226	From N/S North	Feet 329	From E/W West	County Eddy
Latitude 32.255186					Longitude -103.841437			NAD 83	

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

KZ 06/29/2018



September 19, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

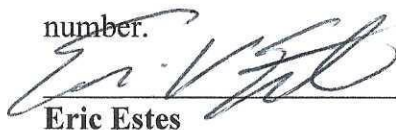
Attn: Benjamin Simmons

Re: XTO Energy Inc.
Los Medanos 36 23 30 State #401H
Bone Spring
Eddy County, New Mexico
API# 30-015-45311

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, LLC. (P-5 #828149) Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Cliff Bray	Original Hole	120ft. to 7,977ft.	03-07-19 to 03-16-19	MWD Survey
Cliff Bray	Side Track #1	4,768ft. to 13,184ft.	03-30-19 to 04-05-19	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

XTO Energy Inc.
Attn: Benjamin Simmons
6401 Holiday Hill Rd. #5
Midland, Texas 79707

NMEMaNRD\ XTO Energy Inc.\Los Medanos 36 23 30 State #401HM191073

STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



September 19, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of March 7, 2019 through March 16, 2019, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 120feet to a depth of 7,977feet; and that I did on the day(s) of March 30, 2019 through April 5, 2019, conduct or supervise the taking of a SEDS MWD Side Track #1 Survey from a depth of 4,768feet to a depth of 13,184feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc., for the Los Medanos 36 23 30 State #401H well, API #30-015-45311 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C..

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-015-45311 LOS MEDANOS 36 23 30 STATE #401H [325562]

General Well Information

Operator: [373075] XTO PERMIAN OPERATING LLC.
Status: New Direction: Horizontal
Well Type: Oil Multi-Lateral: No
Work Type: New Mineral Owner: State
Surface Owner: State
Surface Location: M-36-23S-30E 382 FSL 1215 FWL
Lat/Long: 32.255212,-103.839016 NAD83
GL Elevation: 3411
KB Elevation: Sing/Mult Compl: Single
DF Elevation: Potash Waiver: False

Proposed Formation and/or Notes

Depths

Proposed: 14006 True Vertical Depth: 0
Measured Vertical Depth: 0 Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 10/10/2018
Most Recent APD Approval: 05/02/2019 Current APD Expiration: 10/10/2020
APD Cancellation:
APD Extension Approval:
Spud: Gas Capture Plan Received: 10/11/2018
Approved Temporary TA Expiration:
Abandonment:
Shut In:
Plug and Abandoned Intent PNR Expiration:
Received: Last MIT/BHT:
Well Plugged:
Site Release:
Last Inspection: 03/11/2019

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L1
Design: 401H L1 AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey Program **Date** 2019/04/05

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
120.00	7,977.00	Survey #1 (401H L1)	MWD	OWSG MWD - Standard
8,035.00	8,035.00	Survey #2 (401H L1)	Projection	Projection

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456,871.90	652,961.40
Los Medanos 36-23-30 701H SHL - Los Medanos 36-23-30 401H SHL - Los Medanos 36-23-30 801H SHL										
120.00	0.80	34.70	120.00	0.69	0.48	0.84	34.70	0.67	456,872.59	652,961.88
First Stryker Survey										
209.00	1.40	29.20	208.98	2.15	1.36	2.54	32.35	0.68	456,874.05	652,962.76
304.00	1.20	20.00	303.95	4.10	2.27	4.68	28.97	0.30	456,876.00	652,963.67
396.00	1.10	15.60	395.94	5.85	2.83	6.50	25.84	0.14	456,877.75	652,964.23
487.00	1.10	6.80	486.92	7.56	3.17	8.20	22.76	0.19	456,879.46	652,964.57
572.00	0.90	13.20	571.91	9.02	3.42	9.65	20.77	0.27	456,880.92	652,964.82
663.00	0.80	358.00	662.90	10.35	3.56	10.95	18.99	0.27	456,882.25	652,964.96
753.00	0.50	10.00	752.89	11.37	3.61	11.93	17.62	0.36	456,883.27	652,965.01
846.00	0.50	10.10	845.89	12.17	3.75	12.73	17.13	0.00	456,884.07	652,965.15
937.00	0.50	15.70	936.88	12.94	3.93	13.52	16.89	0.05	456,884.84	652,965.33
1,028.00	0.60	25.40	1,027.88	13.75	4.24	14.39	17.13	0.15	456,885.65	652,965.64
1,117.00	0.60	25.10	1,116.87	14.59	4.64	15.31	17.63	0.00	456,886.49	652,966.04
1,208.00	0.60	10.10	1,207.87	15.49	4.92	16.26	17.63	0.17	456,887.39	652,966.32
1,298.00	0.70	26.30	1,297.86	16.45	5.25	17.27	17.70	0.23	456,888.35	652,966.65
1,388.00	0.70	7.60	1,387.86	17.49	5.57	18.35	17.65	0.25	456,889.39	652,966.97
1,479.00	0.60	356.50	1,478.85	18.52	5.61	19.35	16.86	0.18	456,890.42	652,967.01
1,570.00	0.70	18.60	1,569.85	19.52	5.76	20.35	16.44	0.29	456,891.42	652,967.16
1,661.00	0.70	2.50	1,660.84	20.60	5.96	21.45	16.13	0.22	456,892.50	652,967.36
1,751.00	0.60	32.80	1,750.83	21.55	6.24	22.43	16.15	0.39	456,893.45	652,967.64

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L1
Design: 401H L1 AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
1,841.00	0.50	36.60	1,840.83	22.26	6.73	23.25	16.82	0.12	456,894.16	652,968.13	
1,932.00	0.80	40.20	1,931.82	23.06	7.37	24.21	17.73	0.33	456,894.96	652,968.77	
2,023.00	0.70	42.40	2,022.82	23.96	8.16	25.31	18.81	0.11	456,895.86	652,969.56	
2,113.00	0.70	44.00	2,112.81	24.76	8.91	26.31	19.80	0.02	456,896.66	652,970.31	
2,204.00	0.70	11.50	2,203.80	25.70	9.41	27.37	20.11	0.43	456,897.60	652,970.81	
2,296.00	0.70	26.70	2,295.80	26.76	9.77	28.49	20.07	0.20	456,898.66	652,971.17	
2,387.00	0.70	1.10	2,386.79	27.81	10.03	29.56	19.84	0.34	456,899.71	652,971.43	
2,476.00	0.60	11.20	2,475.78	28.81	10.14	30.54	19.38	0.17	456,900.71	652,971.54	
2,567.00	0.50	359.40	2,566.78	29.67	10.22	31.39	19.01	0.17	456,901.57	652,971.62	
2,657.00	0.70	338.70	2,656.77	30.58	10.02	32.18	18.14	0.32	456,902.48	652,971.42	
2,748.00	0.30	2.10	2,747.77	31.33	9.83	32.84	17.41	0.48	456,903.23	652,971.23	
2,840.00	0.50	353.90	2,839.77	31.97	9.79	33.44	17.03	0.23	456,903.87	652,971.19	
2,930.00	0.40	292.40	2,929.77	32.48	9.46	33.83	16.24	0.52	456,904.38	652,970.86	
3,020.00	0.50	303.70	3,019.76	32.82	8.84	33.99	15.08	0.15	456,904.72	652,970.24	
3,112.00	1.00	281.00	3,111.76	33.20	7.72	34.08	13.09	0.62	456,905.10	652,969.12	
3,203.00	1.80	249.70	3,202.73	32.85	5.60	33.33	9.68	1.19	456,904.75	652,967.00	
3,294.00	1.60	237.20	3,293.69	31.67	3.19	31.83	5.76	0.46	456,903.57	652,964.59	
3,385.00	1.60	203.70	3,384.66	29.82	1.61	29.86	3.10	1.01	456,901.72	652,963.01	
3,478.00	1.80	201.40	3,477.61	27.27	0.56	27.27	1.18	0.23	456,899.17	652,961.96	
3,568.00	1.80	195.50	3,567.57	24.59	-0.33	24.59	359.22	0.21	456,896.49	652,961.07	
3,658.00	2.40	190.80	3,657.51	21.38	-1.06	21.40	357.15	0.69	456,893.28	652,960.34	
3,748.00	2.90	184.10	3,747.41	17.26	-1.58	17.33	354.77	0.65	456,889.16	652,959.82	
3,825.00	2.90	186.90	3,824.31	13.38	-1.95	13.52	351.69	0.18	456,885.28	652,959.45	
3,951.00	2.70	179.90	3,950.16	7.25	-2.33	7.61	342.17	0.31	456,879.15	652,959.07	
4,042.00	2.60	216.30	4,041.07	3.44	-3.55	4.94	314.10	1.82	456,875.34	652,957.85	
4,133.00	3.70	238.70	4,131.94	0.25	-7.28	7.29	271.97	1.79	456,872.15	652,954.12	
4,224.00	6.30	250.00	4,222.59	-2.98	-14.48	14.79	258.36	3.04	456,868.92	652,946.92	

Survey Report Landscape

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Survey											
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4,315.00	8.80	252.90	4,312.79	-6.74	-25.83	26.69	255.38	2.78	456,865.16	652,935.57	
4,403.00	10.30	253.80	4,399.57	-10.91	-39.82	41.29	254.67	1.71	456,860.99	652,921.58	
4,494.00	10.40	254.40	4,489.09	-15.39	-55.54	57.64	254.51	0.16	456,856.51	652,905.86	
4,585.00	11.10	252.60	4,578.49	-20.22	-71.81	74.60	254.28	0.85	456,851.68	652,889.59	
4,677.00	11.70	250.10	4,668.68	-26.04	-89.04	92.77	253.70	0.84	456,845.86	652,872.36	
4,768.00	11.70	249.90	4,757.78	-32.35	-106.38	111.19	253.08	0.04	456,839.55	652,855.02	
4,857.00	11.70	250.10	4,844.94	-38.53	-123.34	129.21	252.65	0.05	456,833.37	652,838.06	
4,948.00	11.30	249.50	4,934.11	-44.79	-140.36	147.34	252.30	0.46	456,827.11	652,821.04	
5,039.00	10.90	251.30	5,023.41	-50.67	-156.86	164.84	252.10	0.58	456,821.23	652,804.54	
5,130.00	10.80	250.80	5,112.78	-56.23	-173.06	181.97	252.00	0.15	456,815.67	652,788.34	
5,220.00	10.50	251.30	5,201.23	-61.64	-188.80	198.60	251.92	0.35	456,810.26	652,772.60	
5,310.00	11.20	257.20	5,289.62	-66.20	-205.09	215.51	252.11	1.46	456,805.70	652,756.31	
5,401.00	13.30	259.80	5,378.55	-70.01	-224.01	234.70	252.64	2.39	456,801.89	652,737.39	
5,493.00	13.70	260.10	5,468.00	-73.76	-245.16	256.01	253.26	0.44	456,798.14	652,716.24	
5,584.00	13.10	260.30	5,556.53	-77.35	-265.94	276.96	253.78	0.66	456,794.55	652,695.46	
5,674.00	12.70	261.70	5,644.25	-80.50	-285.78	296.90	254.27	0.56	456,791.40	652,675.62	
5,763.00	12.30	262.70	5,731.15	-83.11	-304.86	315.99	254.75	0.51	456,788.79	652,656.54	
5,853.00	12.00	261.90	5,819.13	-85.65	-323.64	334.78	255.18	0.38	456,786.25	652,637.76	
5,942.00	11.70	262.80	5,906.23	-88.09	-341.75	352.92	255.55	0.40	456,783.81	652,619.65	
6,034.00	11.40	262.80	5,996.37	-90.39	-360.02	371.20	255.91	0.33	456,781.51	652,601.38	
6,124.00	11.40	263.20	6,084.59	-92.56	-377.68	388.86	256.23	0.09	456,779.34	652,583.72	
6,214.00	11.00	262.30	6,172.88	-94.77	-395.02	406.23	256.51	0.49	456,777.13	652,566.38	
6,306.00	11.50	268.50	6,263.11	-96.18	-412.89	423.94	256.89	1.42	456,775.72	652,548.51	
6,398.00	11.50	270.80	6,353.27	-96.29	-431.23	441.85	257.41	0.50	456,775.61	652,530.17	
6,488.00	10.70	272.50	6,441.58	-95.80	-448.54	458.66	257.94	0.96	456,776.10	652,512.86	
6,579.00	11.60	269.10	6,530.87	-95.58	-466.13	475.83	258.41	1.22	456,776.32	652,495.27	
6,670.00	11.10	268.40	6,620.09	-95.97	-484.04	493.46	258.79	0.57	456,775.93	652,477.36	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L1
Design: 401H L1 AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
6,761.00	12.00	269.00	6,709.24	-96.38	-502.25	511.42	259.14	1.00	456,775.52	652,459.15	
6,852.00	12.20	269.10	6,798.22	-96.69	-521.32	530.22	259.49	0.22	456,775.21	652,440.08	
6,943.00	11.60	268.80	6,887.27	-97.04	-540.09	548.73	259.81	0.66	456,774.86	652,421.31	
7,033.00	11.00	269.40	6,975.52	-97.32	-557.72	566.14	260.10	0.68	456,774.58	652,403.68	
7,125.00	12.10	274.70	7,065.66	-96.62	-576.11	584.15	260.48	1.66	456,775.28	652,385.29	
7,214.00	12.20	275.60	7,152.66	-94.94	-594.76	602.29	260.93	0.24	456,776.96	652,366.64	
7,306.00	11.90	276.00	7,242.64	-92.99	-613.87	620.87	261.39	0.34	456,778.91	652,347.53	
7,398.00	11.60	276.10	7,332.71	-91.02	-632.50	639.02	261.81	0.33	456,780.88	652,328.90	
7,490.00	10.80	276.70	7,422.96	-89.03	-650.26	656.33	262.20	0.88	456,782.87	652,311.14	
7,580.00	10.40	276.50	7,511.42	-87.13	-666.70	672.37	262.55	0.45	456,784.77	652,294.70	
7,670.00	9.70	277.10	7,600.04	-85.27	-682.30	687.61	262.88	0.79	456,786.63	652,279.10	
7,761.00	10.80	278.20	7,689.59	-83.11	-698.35	703.27	263.21	1.23	456,788.79	652,263.05	
7,852.00	10.30	278.30	7,779.05	-80.72	-714.84	719.38	263.56	0.55	456,791.18	652,246.56	
7,944.00	9.80	278.60	7,869.64	-78.36	-730.72	734.91	263.88	0.55	456,793.54	652,230.68	
7,977.00	9.10	278.90	7,902.19	-77.54	-736.07	740.14	263.99	2.13	456,794.36	652,225.33	
8,035.00	9.10	278.90	7,959.46	-76.12	-745.13	749.01	264.17	0.00	456,795.78	652,216.27	

Los Medanos 36-23-30 801H FTP_100FSL_330FWL - Los Medanos 36-23-30 401H FTP_100FSL_330FWL - Los Medanos 36-23-30 801H LP - Los Medanos 36-23-30 401H LP - Los Medanos 36-23-30 701H PI

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.69	0.48	First Stryker Survey

Checked By: _____ Approved By: _____ Date: _____

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey Program **Date** 2019/04/05

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
120.00	4,677.00	Survey #1 (401H L1)	MWD	OWSG MWD - Standard
4,768.00	13,184.00	Survey #1 (401H L2_ST)	MWD	OWSG MWD - Standard
13,230.00	13,230.00	Survey #2 (401H L2_ST)	Projection	Projection

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456,871.90	652,961.40
Los Medanos 36-23-30 401H SHL										
120.00	0.80	34.70	120.00	0.69	0.48	0.84	34.70	0.67	456,872.59	652,961.88
209.00	1.40	29.20	208.98	2.15	1.36	2.54	32.35	0.68	456,874.05	652,962.76
304.00	1.20	20.00	303.95	4.10	2.27	4.68	28.97	0.30	456,876.00	652,963.67
396.00	1.10	15.60	395.94	5.85	2.83	6.50	25.84	0.14	456,877.75	652,964.23
487.00	1.10	6.80	486.92	7.56	3.17	8.20	22.76	0.19	456,879.46	652,964.57
572.00	0.90	13.20	571.91	9.02	3.42	9.65	20.77	0.27	456,880.92	652,964.82
663.00	0.80	358.00	662.90	10.35	3.56	10.95	18.99	0.27	456,882.25	652,964.96
753.00	0.50	10.00	752.89	11.37	3.61	11.93	17.62	0.36	456,883.27	652,965.01
846.00	0.50	10.10	845.89	12.17	3.75	12.73	17.13	0.00	456,884.07	652,965.15
937.00	0.50	15.70	936.88	12.94	3.93	13.52	16.89	0.05	456,884.84	652,965.33
1,028.00	0.60	25.40	1,027.88	13.75	4.24	14.39	17.13	0.15	456,885.65	652,965.64
1,117.00	0.60	25.10	1,116.87	14.59	4.64	15.31	17.63	0.00	456,886.49	652,966.04
1,208.00	0.60	10.10	1,207.87	15.49	4.92	16.26	17.63	0.17	456,887.39	652,966.32
1,298.00	0.70	26.30	1,297.86	16.45	5.25	17.27	17.70	0.23	456,888.35	652,966.65
1,388.00	0.70	7.60	1,387.86	17.49	5.57	18.35	17.65	0.25	456,889.39	652,966.97
1,479.00	0.60	356.50	1,478.85	18.52	5.61	19.35	16.86	0.18	456,890.42	652,967.01
1,570.00	0.70	18.60	1,569.85	19.52	5.76	20.35	16.44	0.29	456,891.42	652,967.16
1,661.00	0.70	2.50	1,660.84	20.60	5.96	21.45	16.13	0.22	456,892.50	652,967.36
1,751.00	0.60	32.80	1,750.83	21.55	6.24	22.43	16.15	0.39	456,893.45	652,967.64

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
1,841.00	0.50	36.60	1,840.83	22.26	6.73	23.25	16.82	0.12	456,894.16	652,968.13	
1,932.00	0.80	40.20	1,931.82	23.06	7.37	24.21	17.73	0.33	456,894.96	652,968.77	
2,023.00	0.70	42.40	2,022.82	23.96	8.16	25.31	18.81	0.11	456,895.86	652,969.56	
2,113.00	0.70	44.00	2,112.81	24.76	8.91	26.31	19.80	0.02	456,896.66	652,970.31	
2,204.00	0.70	11.50	2,203.80	25.70	9.41	27.37	20.11	0.43	456,897.60	652,970.81	
2,296.00	0.70	26.70	2,295.80	26.76	9.77	28.49	20.07	0.20	456,898.66	652,971.17	
2,387.00	0.70	1.10	2,386.79	27.81	10.03	29.56	19.84	0.34	456,899.71	652,971.43	
2,476.00	0.60	11.20	2,475.78	28.81	10.14	30.54	19.38	0.17	456,900.71	652,971.54	
2,567.00	0.50	359.40	2,566.78	29.67	10.22	31.39	19.01	0.17	456,901.57	652,971.62	
2,657.00	0.70	338.70	2,656.77	30.58	10.02	32.18	18.14	0.32	456,902.48	652,971.42	
2,748.00	0.30	2.10	2,747.77	31.33	9.83	32.84	17.41	0.48	456,903.23	652,971.23	
2,840.00	0.50	353.90	2,839.77	31.97	9.79	33.44	17.03	0.23	456,903.87	652,971.19	
2,930.00	0.40	292.40	2,929.77	32.48	9.46	33.83	16.24	0.52	456,904.38	652,970.86	
3,020.00	0.50	303.70	3,019.76	32.82	8.84	33.99	15.08	0.15	456,904.72	652,970.24	
3,112.00	1.00	281.00	3,111.76	33.20	7.72	34.08	13.09	0.62	456,905.10	652,969.12	
3,203.00	1.80	249.70	3,202.73	32.85	5.60	33.33	9.68	1.19	456,904.75	652,967.00	
3,294.00	1.60	237.20	3,293.69	31.67	3.19	31.83	5.76	0.46	456,903.57	652,964.59	
3,385.00	1.60	203.70	3,384.66	29.82	1.61	29.86	3.10	1.01	456,901.72	652,963.01	
3,478.00	1.80	201.40	3,477.61	27.27	0.56	27.27	1.18	0.23	456,899.17	652,961.96	
3,568.00	1.80	195.50	3,567.57	24.59	-0.33	24.59	359.22	0.21	456,896.49	652,961.07	
3,658.00	2.40	190.80	3,657.51	21.38	-1.06	21.40	357.15	0.69	456,893.28	652,960.34	
3,748.00	2.90	184.10	3,747.41	17.26	-1.58	17.33	354.77	0.65	456,889.16	652,959.82	
3,825.00	2.90	186.90	3,824.31	13.38	-1.95	13.52	351.69	0.18	456,885.28	652,959.45	
3,951.00	2.70	179.90	3,950.16	7.25	-2.33	7.61	342.17	0.31	456,879.15	652,959.07	
4,042.00	2.60	216.30	4,041.07	3.44	-3.55	4.94	314.10	1.82	456,875.34	652,957.85	
4,133.00	3.70	238.70	4,131.94	0.25	-7.28	7.29	271.97	1.79	456,872.15	652,954.12	
4,224.00	6.30	250.00	4,222.59	-2.98	-14.48	14.79	258.36	3.04	456,868.92	652,946.92	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
4,315.00	8.80	252.90	4,312.79	-6.74	-25.83	26.69	255.38	2.78	456,865.16	652,935.57	
4,403.00	10.30	253.80	4,399.57	-10.91	-39.82	41.29	254.67	1.71	456,860.99	652,921.58	
4,494.00	10.40	254.40	4,489.09	-15.39	-55.54	57.64	254.51	0.16	456,856.51	652,905.86	
4,585.00	11.10	252.60	4,578.49	-20.22	-71.81	74.60	254.28	0.85	456,851.68	652,889.59	
4,677.00	11.70	250.10	4,668.68	-26.04	-89.04	92.77	253.70	0.84	456,845.86	652,872.36	
4,768.00	11.70	249.90	4,757.78	-32.35	-106.38	111.19	253.08	0.04	456,839.55	652,855.02	
First Sidetrack Survey											
4,857.00	11.70	250.10	4,844.94	-38.53	-123.34	129.21	252.65	0.05	456,833.37	652,838.06	
4,948.00	11.30	249.50	4,934.11	-44.79	-140.36	147.34	252.30	0.46	456,827.11	652,821.04	
5,039.00	10.90	251.30	5,023.41	-50.67	-156.86	164.84	252.10	0.58	456,821.23	652,804.54	
5,130.00	10.80	250.80	5,112.78	-56.23	-173.06	181.97	252.00	0.15	456,815.67	652,788.34	
5,220.00	10.50	251.30	5,201.23	-61.64	-188.80	198.60	251.92	0.35	456,810.26	652,772.60	
5,310.00	11.20	257.20	5,289.62	-66.20	-205.09	215.51	252.11	1.46	456,805.70	652,756.31	
5,401.00	13.30	259.80	5,378.55	-70.01	-224.01	234.70	252.64	2.39	456,801.89	652,737.39	
5,493.00	13.70	260.10	5,468.00	-73.76	-245.16	256.01	253.26	0.44	456,798.14	652,716.24	
5,584.00	13.10	260.30	5,556.53	-77.35	-265.94	276.96	253.78	0.66	456,794.55	652,695.46	
5,674.00	12.70	261.70	5,644.25	-80.50	-285.78	296.90	254.27	0.56	456,791.40	652,675.62	
5,763.00	12.30	262.70	5,731.15	-83.11	-304.86	315.99	254.75	0.51	456,788.79	652,656.54	
5,853.00	12.00	261.90	5,819.13	-85.65	-323.64	334.78	255.18	0.38	456,786.25	652,637.76	
5,943.00	9.50	279.70	5,907.57	-85.72	-340.23	350.86	255.86	4.59	456,786.18	652,621.17	
6,035.00	9.90	285.00	5,998.25	-82.39	-355.35	364.78	256.95	1.06	456,789.51	652,606.05	
6,125.00	9.50	285.20	6,086.97	-78.44	-369.99	378.21	258.03	0.45	456,793.46	652,591.41	
6,216.00	9.20	286.20	6,176.76	-74.44	-384.22	391.37	259.03	0.37	456,797.46	652,577.18	
6,307.00	10.20	288.50	6,266.46	-69.86	-398.85	404.92	260.07	1.18	456,802.04	652,562.55	
6,399.00	12.30	285.50	6,356.68	-64.65	-416.02	421.01	261.17	2.37	456,807.25	652,545.38	
6,489.00	11.70	285.10	6,444.72	-59.71	-434.07	438.16	262.17	0.67	456,812.19	652,527.33	
6,580.00	11.10	286.10	6,533.92	-54.88	-451.39	454.72	263.07	0.69	456,817.02	652,510.01	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
6,671.00	11.30	284.60	6,623.19	-50.20	-468.44	471.12	263.88	0.39	456,821.70	652,492.96	
6,761.00	11.30	281.90	6,711.44	-46.16	-485.60	487.79	264.57	0.59	456,825.74	652,475.80	
6,854.00	12.50	279.50	6,802.44	-42.62	-504.44	506.24	265.17	1.40	456,829.28	652,456.96	
6,943.00	11.60	280.00	6,889.48	-39.48	-522.75	524.24	265.68	1.02	456,832.42	652,438.65	
7,034.00	12.30	277.10	6,978.51	-36.69	-541.38	542.62	266.12	1.01	456,835.21	652,420.02	
7,124.00	12.00	277.20	7,066.49	-34.34	-560.18	561.23	266.49	0.33	456,837.56	652,401.22	
7,216.00	11.20	277.60	7,156.61	-31.95	-578.52	579.40	266.84	0.87	456,839.95	652,382.88	
7,307.00	12.10	276.40	7,245.74	-29.72	-596.76	597.50	267.15	1.02	456,842.18	652,364.64	
7,399.00	11.90	276.20	7,335.73	-27.62	-615.77	616.39	267.43	0.22	456,844.28	652,345.63	
7,490.00	12.30	277.10	7,424.71	-25.41	-634.72	635.23	267.71	0.49	456,846.49	652,326.68	
7,581.00	11.90	276.30	7,513.68	-23.18	-653.66	654.07	267.97	0.48	456,848.72	652,307.74	
7,670.00	12.20	277.00	7,600.72	-21.03	-672.12	672.45	268.21	0.37	456,850.87	652,289.28	
7,761.00	12.10	275.90	7,689.69	-18.88	-691.15	691.41	268.44	0.28	456,853.02	652,270.25	
7,851.00	11.30	272.70	7,777.82	-17.49	-709.34	709.56	268.59	1.14	456,854.41	652,252.06	
7,943.00	12.80	278.50	7,867.79	-15.56	-728.42	728.59	268.78	2.09	456,856.34	652,232.98	
8,036.00	12.00	276.60	7,958.62	-12.93	-748.22	748.33	269.01	0.97	456,858.97	652,213.18	
8,082.00	16.70	294.50	8,003.19	-9.64	-758.99	759.05	269.27	13.94	456,862.26	652,202.41	
8,127.00	20.70	307.50	8,045.83	-2.11	-771.20	771.20	269.84	12.79	456,869.79	652,190.20	
8,173.00	25.30	316.90	8,088.17	10.03	-784.37	784.44	270.73	12.77	456,881.93	652,177.03	
8,219.00	29.90	323.40	8,128.94	26.42	-797.94	798.37	271.90	11.94	456,898.32	652,163.46	
8,264.00	34.30	327.20	8,167.05	46.10	-811.50	812.81	273.25	10.75	456,918.00	652,149.90	
8,310.00	39.00	331.90	8,203.96	69.78	-825.35	828.29	274.83	11.89	456,941.68	652,136.05	
8,355.00	41.10	337.80	8,238.41	95.98	-837.61	843.09	276.54	9.64	456,967.88	652,123.79	
8,393.43	42.19	342.94	8,267.14	120.02	-846.18	854.64	278.07	9.33	456,991.92	652,115.22	
Los Medanos 36-23-30 401H FTP_100FSL_330FWL											
8,400.00	42.40	343.80	8,272.00	124.25	-847.44	856.50	278.34	9.33	456,996.15	652,113.96	
8,445.00	42.30	349.70	8,305.27	153.73	-854.38	868.10	280.20	8.83	457,025.63	652,107.02	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
8,490.00	42.30	354.00	8,338.56	183.70	-858.67	878.10	282.08	6.43	457,055.60	652,102.73	
8,535.00	42.70	357.00	8,371.74	214.00	-861.06	887.25	283.96	4.59	457,085.90	652,100.34	
8,582.00	44.10	357.50	8,405.89	246.25	-862.60	897.06	285.93	3.07	457,118.15	652,098.80	
8,626.00	46.40	355.40	8,436.86	277.44	-864.55	907.97	287.79	6.23	457,149.34	652,096.85	
8,671.00	49.40	354.50	8,467.03	310.69	-867.49	921.45	289.70	6.83	457,182.59	652,093.91	
8,717.00	53.00	353.20	8,495.85	346.33	-871.34	937.65	291.68	8.13	457,218.23	652,090.06	
8,763.00	58.10	351.70	8,521.86	383.91	-876.34	956.75	293.66	11.41	457,255.81	652,085.06	
8,809.00	65.00	351.70	8,543.76	423.91	-882.18	978.74	295.67	15.00	457,295.81	652,079.22	
8,854.00	72.00	351.00	8,560.25	465.28	-888.47	1,002.93	297.64	15.62	457,337.18	652,072.93	
8,900.00	77.30	354.10	8,572.42	509.24	-894.21	1,029.05	299.66	13.23	457,381.14	652,067.19	
8,946.00	82.30	357.90	8,580.57	554.38	-897.35	1,054.79	301.71	13.57	457,426.28	652,064.05	
8,992.00	85.70	0.80	8,585.38	600.11	-897.87	1,079.96	303.76	9.69	457,472.01	652,063.53	
9,038.00	87.60	1.20	8,588.07	646.03	-897.07	1,105.48	305.76	4.22	457,517.93	652,064.33	
9,129.00	88.70	0.60	8,591.00	736.97	-895.64	1,159.87	309.45	1.38	457,608.87	652,065.76	
9,221.00	89.80	0.40	8,592.21	828.95	-894.84	1,219.79	312.81	1.22	457,700.85	652,066.56	
9,313.00	87.40	0.40	8,594.46	920.92	-894.19	1,283.62	315.84	2.61	457,792.82	652,067.21	
9,404.00	87.50	359.70	8,598.50	1,011.83	-894.11	1,350.27	318.53	0.78	457,883.73	652,067.29	
9,495.00	88.50	358.50	8,601.68	1,102.76	-895.54	1,420.59	320.92	1.72	457,974.66	652,065.86	
9,584.00	89.50	357.40	8,603.23	1,191.68	-896.73	1,492.59	322.98	1.67	458,063.58	652,062.67	
9,675.00	90.20	0.70	8,603.47	1,282.66	-900.23	1,567.05	324.94	3.71	458,154.56	652,061.17	
9,767.00	90.90	0.80	8,602.59	1,374.64	-899.03	1,642.53	326.81	0.77	458,246.54	652,062.37	
9,859.00	91.30	359.80	8,600.82	1,466.63	-898.55	1,719.99	328.51	1.17	458,338.53	652,062.85	
9,949.00	90.40	359.90	8,599.49	1,556.61	-898.78	1,797.46	330.00	1.01	458,428.51	652,062.62	
10,041.00	91.30	358.80	8,598.12	1,648.60	-899.83	1,878.18	331.37	1.54	458,520.50	652,061.57	
10,132.00	91.80	359.70	8,595.66	1,739.55	-901.02	1,959.05	332.62	1.13	458,611.45	652,060.38	
10,223.00	89.80	1.20	8,594.39	1,830.53	-900.30	2,039.95	333.81	2.75	458,702.43	652,061.10	
10,314.00	90.20	0.80	8,594.39	1,921.52	-898.72	2,121.30	334.93	0.62	458,793.42	652,062.68	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Los Medanos 36-23-30 State
Well: Los Medanos 36-23-30 State 401H
Wellbore: 401H L2_ST
Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
10,405.00	88.30	0.50	8,595.58	2,012.50	-897.68	2,203.63	335.96	2.11	458,884.40	652,063.72	
10,496.00	89.20	359.70	8,597.57	2,103.48	-897.53	2,286.96	336.89	1.32	458,975.38	652,063.87	
10,587.00	90.30	358.30	8,597.96	2,194.46	-899.11	2,371.51	337.72	1.96	459,066.36	652,062.29	
10,678.00	90.90	357.10	8,597.01	2,285.38	-902.76	2,457.22	338.45	1.47	459,157.28	652,058.64	
10,769.00	90.10	358.50	8,596.22	2,376.31	-906.26	2,543.25	339.12	1.77	459,248.21	652,055.14	
10,861.00	90.70	357.30	8,595.57	2,468.24	-909.63	2,630.52	339.77	1.46	459,340.14	652,051.77	
10,952.00	91.10	359.70	8,594.14	2,559.19	-912.01	2,716.84	340.39	2.67	459,431.09	652,049.39	
11,044.00	89.80	1.30	8,593.42	2,651.18	-911.21	2,803.40	341.03	2.24	459,523.08	652,050.19	
11,135.00	90.40	0.80	8,593.26	2,742.16	-909.54	2,889.07	341.65	0.86	459,614.06	652,051.86	
11,226.00	90.60	2.60	8,592.47	2,833.12	-906.84	2,974.71	342.25	1.99	459,705.02	652,054.56	
11,317.00	87.80	2.50	8,593.74	2,924.01	-902.79	3,060.21	342.84	3.08	459,795.91	652,058.61	
11,408.00	88.10	1.30	8,596.99	3,014.90	-899.78	3,146.30	343.38	1.36	459,886.80	652,061.62	
11,500.00	89.10	0.70	8,599.24	3,106.86	-898.17	3,234.08	343.88	1.27	459,978.76	652,063.23	
11,590.00	89.80	359.70	8,600.11	3,196.85	-897.86	3,320.54	344.31	1.36	460,068.75	652,063.54	
11,682.00	91.30	358.90	8,599.22	3,288.83	-898.98	3,409.49	344.71	1.85	460,160.73	652,062.42	
11,772.00	89.60	0.20	8,598.52	3,378.82	-899.69	3,496.55	345.09	2.38	460,250.72	652,061.71	
11,862.00	90.60	359.70	8,598.36	3,468.82	-899.77	3,583.62	345.46	1.24	460,340.72	652,061.63	
11,953.00	91.60	358.90	8,596.61	3,559.80	-900.88	3,672.02	345.80	1.41	460,431.70	652,060.52	
12,043.00	90.10	358.80	8,595.28	3,649.77	-902.69	3,759.74	346.11	1.67	460,521.67	652,058.71	
12,134.00	86.50	358.50	8,597.98	3,740.69	-904.83	3,848.56	346.40	3.97	460,612.59	652,056.57	
12,225.00	86.90	357.50	8,603.21	3,831.48	-908.00	3,937.60	346.67	1.18	460,703.38	652,053.40	
12,317.00	87.80	359.30	8,607.47	3,923.34	-910.56	4,027.62	346.93	2.19	460,795.24	652,050.84	
12,408.00	88.80	358.90	8,610.17	4,014.29	-911.99	4,116.58	347.20	1.18	460,886.19	652,049.41	
12,498.00	91.00	359.30	8,610.33	4,104.27	-913.41	4,204.68	347.45	2.48	460,976.17	652,047.99	
12,591.00	92.20	357.50	8,607.73	4,197.19	-916.00	4,295.98	347.69	2.33	461,069.09	652,045.40	
12,685.00	90.80	357.10	8,605.27	4,291.05	-920.43	4,388.66	347.89	1.55	461,162.95	652,040.97	
12,776.00	91.30	358.60	8,603.60	4,381.97	-923.84	4,478.30	348.09	1.74	461,253.87	652,037.56	

Survey Report Landscape

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Design: 401H L2_ST AsDrilled

Local Co-ordinate Reference: Well Los Medanos 36-23-30 State 401H
TVD Reference: 3412+25 @ 3437.00usft (Tri101)
MD Reference: 3412+25 @ 3437.00usft (Tri101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
12,866.00	90.70	0.00	8,602.03	4,471.95	-924.94	4,566.60	348.31	1.69	461,343.85	652,036.46	
12,958.00	89.70	0.60	8,601.71	4,563.94	-924.46	4,656.63	348.55	1.27	461,435.84	652,036.94	
13,049.00	91.10	359.80	8,601.07	4,654.94	-924.14	4,745.79	348.77	1.77	461,526.84	652,037.26	
13,141.00	93.40	359.60	8,597.46	4,746.86	-924.62	4,836.07	348.98	2.51	461,618.76	652,036.78	
13,184.00	94.80	0.00	8,594.39	4,789.75	-924.77	4,878.21	349.07	3.39	461,661.65	652,036.63	
13,189.56	94.80	0.00	8,593.92	4,795.29	-924.77	4,883.65	349.08	0.00	461,667.19	652,036.63	
Los Medanos 36-23-30 401H LTP_100FNL_330FW											
13,190.00	94.80	0.00	8,593.88	4,795.73	-924.77	4,884.08	349.09	0.00	461,667.63	652,036.63	
Wellpath Crosses LTP (100'FNL)											
13,230.00	94.80	0.00	8,590.54	4,835.59	-924.77	4,923.22	349.17	0.00	461,707.49	652,036.63	
TD @ 60'FNL,330'FWL - Los Medanos 36-23-30 401H L2_ST BHL - Los Medanos 36-23-30 401H PBHL_50FNL_330FW - Los Medanos 36-23-30 401H LTP PBHL_50FNL_330FW											

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,768.00	4,757.78	-32.35	-106.38	First Sidetrack Survey
13,190.00	8,593.88	4,795.73	-924.77	Wellpath Crosses LTP (100'FNL)
13,230.00	8,590.54	4,835.59	-924.77	TD @ 60'FNL,330'FWL

Checked By: _____ Approved By: _____ Date: _____

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Los Medanos 36-23-30 State
 Well: Los Medanos 36-23-30 State 401H
 Wellbore: 401H L2_ST
 Design: 401H L2_ST AsDrilled

3412+25 @ 3437.00usft (Tri101)
 NAD 1927 (NADCON CONUS)



Azimuths to Grid North
 True North: -0.26°
 Magnetic North: 6.62°

Magnetic Field
 Strength: 47745.5nT
 Dip Angle: 60.03°
 Date: 2019/03/29
 Model: IGRF2015

To convert a Magnetic Direction to a True Direction, Add 6.89° East
 To convert a Magnetic Direction to a Grid Direction, Add 6.62°
 Magnetic North is 6.89° East of True North (Magnetic Declination)
 Magnetic North is 6.62° East of Grid North (Magnetic Convergence)

ANNOTATIONS

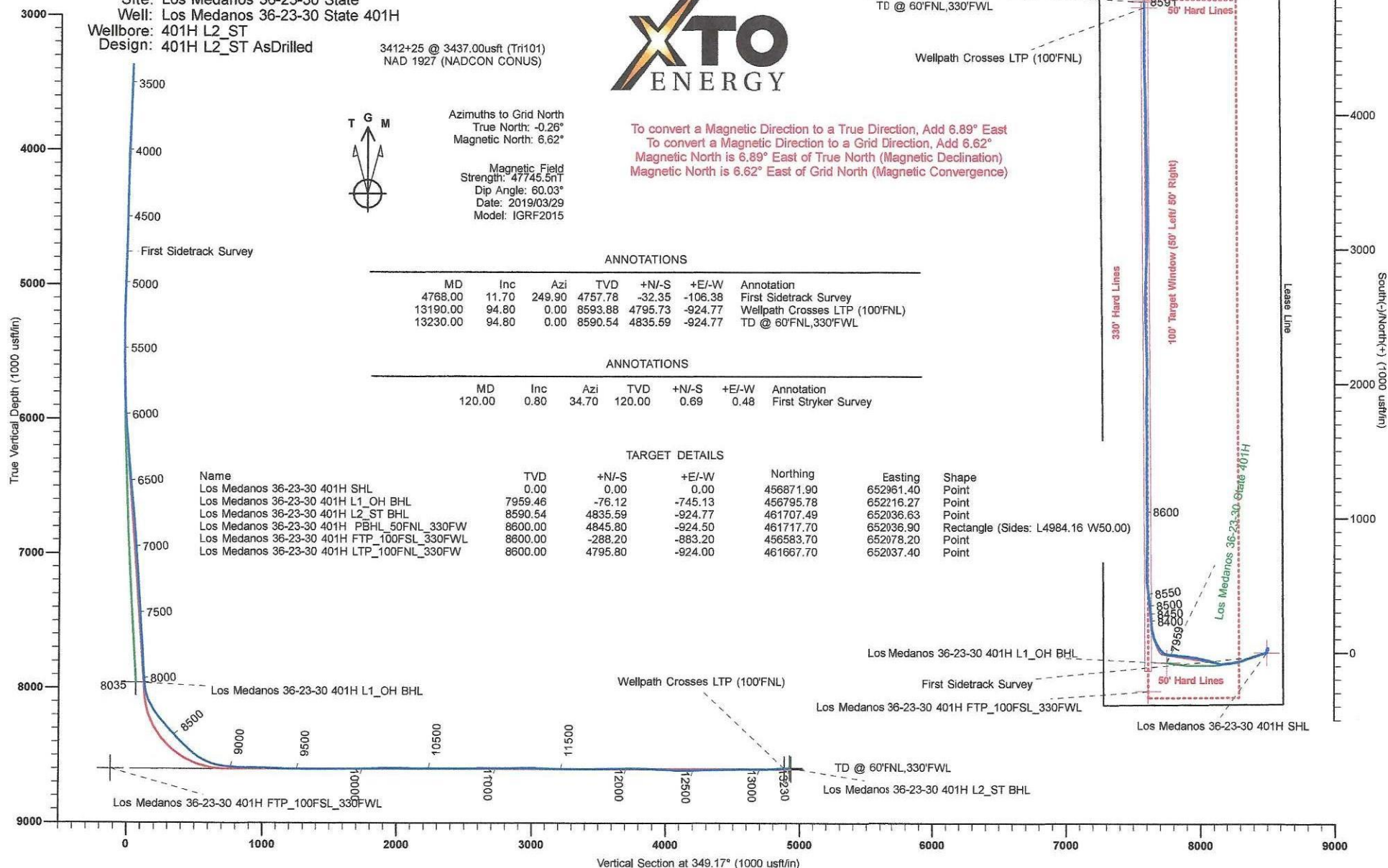
MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
4768.00	11.70	249.90	4757.78	-32.35	-106.38	First Sidetrack Survey
13190.00	94.80	0.00	8593.88	4795.73	-924.77	Wellpath Crosses LTP (100'FNL)
13230.00	94.80	0.00	8590.54	4835.59	-924.77	TD @ 60'FNL,330'FWL

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
120.00	0.80	34.70	120.00	0.69	0.48	First Stryker Survey

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Los Medanos 36-23-30 401H SHL	0.00	0.00	0.00	456871.90	652961.40	Point
Los Medanos 36-23-30 401H L1_OH BHL	7959.46	-76.12	-745.13	456795.78	652216.27	Point
Los Medanos 36-23-30 401H L2_ST BHL	8590.54	4835.59	-924.77	461707.49	652036.63	Point
Los Medanos 36-23-30 401H PBHL_50FNL_330FW	8600.00	4845.80	-924.50	461717.70	652036.90	Rectangle (Sides: L4984.16 W50.00)
Los Medanos 36-23-30 401H FTP_100FSL_330FWL	8600.00	-288.20	-883.20	456583.70	652078.20	Point
Los Medanos 36-23-30 401H LTP_100FNL_330FW	8600.00	4795.80	-924.00	461667.70	652037.40	Point



Design: 401H L2_ST AsDrilled (Los Medanos 36-23-30 State 401H/401H L2_ST)
 Created By: Mekka Williams
 eSoma Well Design
 mekka@esominawelldesign.com
 9:53, April 05 2019

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

