

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 AS-DRILLED PLAT

¹ API Number 30-015-45433	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 322863	⁵ Property Name CORRAL CANYON 3-34 FED	⁶ Well Number 108H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,035'

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	10	25 S	29 E		185	NORTH	884	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
1	3	25 S	29 E		213	NORTH	430	EAST	EDDY

¹² Dedicated Acres 319.4	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 T24S R29E SEC. 34 SEC. 35 SEC. 2 SEC. 3 SEC. 10 T25S R29E SEC. 11	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 419,027.6 X= 654,833.9 LAT.= 32.151454°N LONG.= 103.966599°W FIRST TAKE POINT NAD 83 NME Y= 419,661.7 X= 655,267.6 LAT.= 32.153193°N LONG.= 103.965191°W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 418,969.1 X= 613,649.6 LAT.= 32.151330°N LONG.= 103.966112°W FIRST TAKE POINT NAD 27 NME Y= 419,603.2 X= 614,083.3 LAT.= 32.153069°N LONG.= 103.964704°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>Cheryl Rowell</i> 4/8/20 Signature Date Cheryl Rowell Printed Name cheryl_rowell@xtoenergy.com E-mail Address						
	CORNER COORDINATES TABLE NAD 27 NME <table border="1"> <tr><td>A - Y= 419,159.1 N, X= 614,533.5 E</td></tr> <tr><td>B - Y= 419,151.6 N, X= 613,208.3 E</td></tr> <tr><td>C - Y= 421,814.9 N, X= 614,533.4 E</td></tr> <tr><td>D - Y= 421,806.5 N, X= 613,204.3 E</td></tr> <tr><td>E - Y= 424,458.2 N, X= 614,532.5 E</td></tr> <tr><td>F - Y= 424,452.8 N, X= 613,199.9 E</td></tr> </table>			A - Y= 419,159.1 N, X= 614,533.5 E	B - Y= 419,151.6 N, X= 613,208.3 E	C - Y= 421,814.9 N, X= 614,533.4 E	D - Y= 421,806.5 N, X= 613,204.3 E	E - Y= 424,458.2 N, X= 614,532.5 E	F - Y= 424,452.8 N, X= 613,199.9 E
	A - Y= 419,159.1 N, X= 614,533.5 E								
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E - Y= 424,458.2 N, X= 614,532.5 E									
F - Y= 424,452.8 N, X= 613,199.9 E									
CORNER COORDINATES TABLE NAD 83 NME <table border="1"> <tr><td>A - Y= 419,217.6 N, X= 655,717.8 E</td></tr> <tr><td>B - Y= 419,210.1 N, X= 654,392.5 E</td></tr> <tr><td>C - Y= 421,873.4 N, X= 655,717.6 E</td></tr> <tr><td>D - Y= 421,865.0 N, X= 654,388.5 E</td></tr> <tr><td>E - Y= 424,516.8 N, X= 655,716.6 E</td></tr> <tr><td>F - Y= 424,511.4 N, X= 654,384.0 E</td></tr> </table>		A - Y= 419,217.6 N, X= 655,717.8 E	B - Y= 419,210.1 N, X= 654,392.5 E	C - Y= 421,873.4 N, X= 655,717.6 E	D - Y= 421,865.0 N, X= 654,388.5 E	E - Y= 424,516.8 N, X= 655,716.6 E	F - Y= 424,511.4 N, X= 654,384.0 E		
A - Y= 419,217.6 N, X= 655,717.8 E									
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E - Y= 424,516.8 N, X= 655,716.6 E									
F - Y= 424,511.4 N, X= 654,384.0 E									
LAST TAKE POINT NAD 83 NME Y= 424,172.7 X= 655,287.2 LAT.= 32.165593°N LONG.= 103.965077°W LAST TAKE POINT NAD 27 NME Y= 424,114.1 X= 614,103.1 LAT.= 32.165469°N LONG.= 103.964590°W									
BOTTOM HOLE LOCATION NAD 83 NME Y= 424,301.6 X= 655,287.1 LAT.= 32.165947°N LONG.= 103.965076°W BOTTOM HOLE LOCATION NAD 27 NME Y= 424,243.0 X= 614,103.0 LAT.= 32.165824°N LONG.= 103.964589°W		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. 4-8-2020 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2017091543							

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



June 11, 2019

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

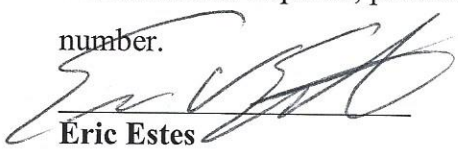
Attn: Terry West

Re: XTO Energy Inc.
Corral Canyon 3 34 Federal #108H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-45431

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>
Jimmy Walker	Original Hole	155ft. to 15,160ft.	01-12-19 to 02-04-19	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: Terry West
6401 Holiday Hill Rd. #5
Midland, Texas 79707

RRC\XTO Energy Inc.\Corral Canyon 3 34 Fed #108H\M191031

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



June 11, 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 January 12, 2019 through February 4, 2019, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 155feet to a depth of 15,160feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc., for the Corral Canyon 3 34 Federal #108 well, API #30-015-45431 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

30-015-45431 CORRAL CANYON 3 34 FEDERAL #108H [322863]

General Well Information

Operator:	[5380] XTO ENERGY, INC	Direction:	Horizontal
Status:	New	Multi-Lateral:	No
Well Type:	Gas	Mineral Owner:	Federal
Work Type:	New	Surface Owner:	Federal
Surface Location:	A-10-25S-29E 285 FNL 330 FEL		
Lat/Long:	32.151182,-103.964806 NAD83		
GL Elevation:	3028		
KB Elevation:		Sing/Mult Compl:	Single
DF Elevation:		Potash Waiver:	False

Quick Links

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

Associated Images

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

New Searches

- [New Well Search](#)

Proposed Formation and/or Notes

Depths

Proposed:	20623	Total 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:	11/06/2018	Current APD Expiration:	11/06/2020
Most Recent APD Approval:	11/09/2018		
APD Cancellation:			
APD Extension Approval:			
Spud:		Gas Capture Plan Received:	11/08/2018
Approved Temporary		TA Expiration:	
Abandonment:			
Shut In:			
Plug and Abandoned Intent		PNR Expiration:	
Received:		Last MIT/BHT:	
Well Plugged:			
Site Release:			
Last Inspection:			

History

**Comments****Operator****General Contact Information**

Company:	[5380] XTO ENERGY, INC	Main Phone:	432-620-6724
Address:	6401 Holiday Hill Road Building #5	Main Fax:	
	Midland, TX 79707		
Country:	U.S.A.		

Central Contact

Name:	DeeAnn Kemp	Phone Number:	432-620-6724
Title:	Regulatory Manager	Cell Number:	
E-Mail Address:	DeeAnn_Kemp@XTOEnergy.com	Fax Number:	

Hobbs Contact

Name:	Scott Kaufman	Phone Number:	432-592-9401
Title:		Cell Number:	432-592-9401
E-Mail Address:	Scott_Kaufman@xtoenergy.com	Fax Number:	

Artesia Contact

Name:	Wes McSpadden	Phone Number:	575-889-3352
Title:		Cell Number:	432-967-0827
E-Mail Address:	wes_mcspadden@xtoenergy.com	Fax Number:	

Pits

No Pits Found

Casing

No Casing Found

Well Completions**[98220] PURPLE SAGE; WOLFCAMP (GAS)**

Status:	New, Not Drilled	Last Produced:	
Bottomhole Location:	A-34-24S-29E 201 FNL 330 FEL		
Lat/Long:	32.180496,-103.965003 NAD83		

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey Program **Date** 02/07/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
155.00	638.00	Survey #1 (CORRAL CANYON 3-34 FED	MWD	OWSG MWD - Standard
672.00	15,160.00	Survey #2 (CORRAL CANYON 3-34 FED	MWD	OWSG MWD - Standard
15,205.00	15,205.00	Survey #3 (CORRAL CANYON 3-34 FED	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	418,969.10	613,649.60
CORRAL CANYON 3-34 FED 108H SHL										
155.00	0.60	68.00	155.00	0.30	0.75	0.81	68.00	0.39	418,969.40	613,650.35
First Stryker Survey										
249.00	0.60	97.80	248.99	0.42	1.70	1.75	76.04	0.33	418,969.52	613,651.30
344.00	0.60	69.50	343.99	0.53	2.66	2.71	78.75	0.31	418,969.63	613,652.26
376.00	0.50	356.70	375.99	0.73	2.80	2.90	75.48	2.06	418,969.83	613,652.40
471.00	1.00	4.80	470.98	1.97	2.85	3.46	55.39	0.54	418,971.07	613,652.45
566.00	1.40	2.60	565.96	3.95	2.97	4.94	36.94	0.42	418,973.05	613,652.57
588.00	1.30	9.60	587.95	4.47	3.03	5.39	34.11	0.88	418,973.57	613,652.63
638.00	1.40	7.80	637.94	5.63	3.20	6.48	29.63	0.22	418,974.73	613,652.80
672.00	1.40	354.40	671.93	6.46	3.22	7.21	26.50	0.96	418,975.56	613,652.82
767.00	1.50	340.10	766.90	8.78	2.68	9.18	16.99	0.39	418,977.88	613,652.28
861.00	1.70	340.80	860.86	11.25	1.80	11.40	9.11	0.21	418,980.35	613,651.40
956.00	1.40	330.90	955.83	13.60	0.78	13.62	3.27	0.42	418,982.70	613,650.38
1,051.00	1.00	282.50	1,050.81	14.79	-0.60	14.80	357.69	1.10	418,983.89	613,649.00
1,145.00	0.70	249.70	1,144.80	14.77	-1.94	14.90	352.53	0.60	418,983.87	613,647.66
1,240.00	0.90	249.40	1,239.79	14.31	-3.18	14.65	347.47	0.21	418,983.41	613,646.42
1,335.00	1.10	257.50	1,334.77	13.85	-4.77	14.64	341.00	0.26	418,982.95	613,644.83
1,430.00	1.00	245.20	1,429.76	13.30	-6.41	14.77	334.27	0.26	418,982.40	613,643.19
1,524.00	1.10	238.00	1,523.74	12.48	-7.92	14.78	327.60	0.18	418,981.58	613,641.68

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
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)	
1,619.00	0.60	229.20	1,618.73	11.67	-9.07	14.78	322.15	0.54	418,980.77	613,640.53	
1,714.00	0.40	199.90	1,713.73	11.03	-8.56	14.60	319.10	0.34	418,980.13	613,640.04	
1,808.00	0.70	220.70	1,807.72	10.29	-10.05	14.38	315.69	0.38	418,979.39	613,639.55	
1,903.00	0.80	205.10	1,902.71	9.25	-10.71	14.15	310.83	0.24	418,978.35	613,638.89	
1,997.00	0.90	164.60	1,996.70	7.94	-10.79	13.40	306.37	0.63	418,977.04	613,638.81	
2,092.00	1.40	130.60	2,091.69	6.47	-9.71	11.67	303.68	0.87	418,975.57	613,639.89	
2,187.00	1.10	139.00	2,186.66	5.03	-8.23	9.64	301.41	0.37	418,974.13	613,641.37	
2,282.00	1.10	142.60	2,281.65	3.61	-7.08	7.95	297.05	0.07	418,972.71	613,642.52	
2,376.00	1.20	154.10	2,375.63	2.01	-6.10	6.42	288.25	0.27	418,971.11	613,643.50	
2,471.00	1.70	147.20	2,470.60	-0.07	-4.90	4.90	269.20	0.56	418,969.03	613,644.70	
2,565.00	1.80	137.70	2,564.55	-2.33	-3.15	3.92	233.50	0.33	418,966.77	613,646.45	
2,660.00	0.80	141.60	2,659.53	-3.96	-1.74	4.32	203.69	1.06	418,965.14	613,647.86	
2,754.00	0.60	100.50	2,753.52	-4.56	-0.84	4.64	190.49	0.56	418,964.54	613,648.76	
2,849.00	1.10	79.00	2,848.51	-4.48	0.54	4.51	173.12	0.62	418,964.62	613,650.14	
2,942.00	1.50	90.00	2,941.49	-4.31	2.63	5.05	148.55	0.51	418,964.79	613,652.23	
3,037.00	1.50	82.90	3,036.45	-4.15	5.11	6.59	129.09	0.20	418,964.95	613,654.71	
3,132.00	1.20	27.80	3,131.43	-3.12	6.81	7.49	114.61	1.34	418,965.98	613,656.41	
3,226.00	1.70	13.90	3,225.40	-0.89	7.60	7.66	96.71	0.65	418,968.21	613,657.20	
3,321.00	1.90	2.20	3,320.35	2.05	8.00	8.26	75.65	0.44	418,971.15	613,657.60	
3,416.00	2.70	359.70	3,415.28	5.86	8.05	9.96	53.96	0.85	418,974.96	613,657.65	
3,511.00	2.70	3.10	3,510.17	10.33	8.16	13.16	38.31	0.17	418,979.43	613,657.76	
3,605.00	2.50	2.00	3,604.08	14.59	8.35	16.81	29.79	0.22	418,983.69	613,657.95	
3,700.00	2.70	4.90	3,698.98	18.89	8.61	20.76	24.51	0.25	418,987.99	613,658.21	
3,795.00	3.30	9.80	3,793.85	23.81	9.27	25.55	21.27	0.69	418,992.91	613,658.87	
3,890.00	3.90	25.60	3,888.66	29.42	11.13	31.46	20.73	1.21	418,998.52	613,660.73	
3,985.00	4.10	40.40	3,983.43	34.92	14.73	37.90	22.87	1.10	419,004.02	613,664.33	
4,079.00	4.10	56.30	4,077.19	39.35	19.70	44.00	26.60	1.21	419,008.45	613,669.30	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
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)
4,174.00	3.50	75.70	4,171.99	41.95	25.34	49.01	31.14	1.48	419,011.05	613,674.94
4,268.00	3.60	87.60	4,265.81	42.78	31.07	52.87	35.99	0.79	419,011.88	613,680.67
4,363.00	3.60	91.80	4,360.62	42.81	37.03	56.60	40.86	0.28	419,011.91	613,686.63
4,457.00	3.90	90.40	4,454.42	42.69	43.18	60.72	45.32	0.33	419,011.79	613,692.78
4,551.00	4.00	88.00	4,548.20	42.79	49.65	65.54	49.25	0.21	419,011.89	613,699.25
4,644.00	4.00	91.20	4,640.97	42.83	56.13	70.61	52.65	0.24	419,011.93	613,705.73
4,739.00	3.90	90.60	4,735.75	42.73	62.68	75.86	55.72	0.11	419,011.83	613,712.28
4,833.00	4.10	86.40	4,829.52	42.91	69.23	81.45	58.21	0.38	419,012.01	613,718.83
4,927.00	4.40	90.50	4,923.26	43.09	76.19	87.53	60.51	0.45	419,012.19	613,725.79
5,023.00	4.30	90.00	5,018.98	43.05	83.47	93.92	62.71	0.11	419,012.15	613,733.07
5,118.00	4.50	92.20	5,113.70	42.91	90.75	100.39	64.69	0.28	419,012.01	613,740.35
5,214.00	4.80	91.80	5,209.39	42.64	98.53	107.36	66.60	0.31	419,011.74	613,748.13
5,308.00	5.00	89.90	5,303.04	42.52	106.56	114.73	68.24	0.27	419,011.62	613,756.16
5,403.00	4.40	96.70	5,397.72	42.11	114.32	121.83	69.78	0.86	419,011.21	613,763.92
5,497.00	3.50	103.80	5,491.50	41.00	120.69	127.46	71.24	1.09	419,010.10	613,770.29
5,592.00	3.40	106.00	5,586.33	39.53	126.21	132.26	72.61	0.17	419,008.63	613,775.81
5,687.00	3.70	105.60	5,681.15	37.93	131.87	137.22	73.95	0.32	419,007.03	613,781.47
5,782.00	3.60	107.90	5,775.95	36.19	137.66	142.34	75.27	0.19	419,005.29	613,787.26
5,877.00	3.80	102.20	5,870.76	34.61	143.58	147.69	76.45	0.44	419,003.71	613,793.18
5,972.00	3.60	102.40	5,965.56	33.30	149.57	153.23	77.45	0.21	419,002.40	613,799.17
6,067.00	3.80	103.40	6,060.36	31.93	155.54	158.78	78.40	0.22	419,001.03	613,805.14
6,162.00	3.70	105.90	6,155.16	30.36	161.55	164.38	79.36	0.20	418,999.46	613,811.15
6,257.00	3.70	103.00	6,249.96	28.83	167.49	169.95	80.23	0.20	418,997.93	613,817.09
6,351.00	3.50	92.60	6,343.77	28.02	173.31	175.56	80.82	0.73	418,997.12	613,822.91
6,446.00	3.30	88.50	6,438.61	27.96	178.94	181.11	81.12	0.33	418,997.06	613,828.54
6,541.00	3.40	87.60	6,533.44	28.15	184.49	186.62	81.32	0.12	418,997.25	613,834.09
6,635.00	3.30	95.00	6,627.28	28.03	189.97	192.02	81.61	0.47	418,997.13	613,839.57

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
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)	
6,730.00	3.30	90.80	6,722.13	27.76	195.42	197.38	81.92	0.25	418,996.86	613,845.02	
6,825.00	2.90	93.40	6,816.99	27.57	200.56	202.44	82.17	0.45	418,996.67	613,850.16	
6,918.00	2.80	100.80	6,909.87	27.01	205.14	206.91	82.50	0.41	418,996.11	613,854.74	
7,013.00	2.00	74.60	7,004.79	27.02	209.01	210.75	82.64	1.41	418,996.12	613,858.61	
7,108.00	1.90	47.30	7,099.74	28.52	211.77	213.68	82.33	0.97	418,997.62	613,861.37	
7,203.00	1.90	50.50	7,194.69	30.59	214.14	216.32	81.87	0.11	418,999.69	613,863.74	
7,297.00	1.40	69.40	7,288.65	31.99	216.42	218.77	81.59	0.78	419,001.09	613,866.02	
7,392.00	0.80	84.50	7,383.63	32.46	218.17	220.57	81.54	0.70	419,001.56	613,867.77	
7,486.00	0.40	207.40	7,477.63	32.23	218.67	221.03	81.61	1.14	419,001.33	613,868.27	
7,581.00	0.70	222.50	7,572.62	31.51	218.12	220.39	81.78	0.35	419,000.61	613,867.72	
7,676.00	1.20	246.50	7,667.61	30.69	216.82	218.98	81.94	0.66	418,999.79	613,866.42	
7,771.00	1.60	237.50	7,762.58	29.58	214.79	216.82	82.16	0.48	418,998.68	613,864.39	
7,866.00	1.70	247.00	7,857.54	28.31	212.37	214.25	82.41	0.31	418,997.41	613,861.97	
7,961.00	1.60	245.90	7,952.50	27.22	209.86	211.62	82.61	0.11	418,996.32	613,859.46	
8,047.00	1.40	258.20	8,038.47	26.52	207.74	209.43	82.73	0.44	418,995.62	613,857.34	
8,142.00	0.70	109.10	8,133.47	26.09	207.15	208.79	82.82	2.14	418,995.19	613,856.75	
8,236.00	4.10	89.40	8,227.37	25.94	211.06	212.64	82.99	3.67	418,995.04	613,860.66	
8,330.00	8.70	82.00	8,320.76	26.96	221.46	223.10	83.06	4.96	418,996.06	613,871.06	
8,425.00	11.00	81.30	8,414.35	29.33	237.54	239.34	82.96	2.42	418,998.43	613,887.14	
8,519.00	12.30	82.60	8,506.42	31.98	256.33	258.32	82.89	1.41	419,001.08	613,905.93	
8,614.00	11.50	83.20	8,599.37	34.40	275.77	277.91	82.89	0.85	419,003.50	613,925.37	
8,709.00	11.30	84.00	8,692.50	36.50	294.43	296.69	82.93	0.27	419,005.60	613,944.03	
8,804.00	10.10	85.40	8,785.85	38.14	311.99	314.31	83.03	1.29	419,007.24	613,961.59	
8,899.00	8.00	84.20	8,879.66	39.47	326.87	329.25	83.11	2.22	419,008.57	613,976.47	
8,994.00	7.30	83.10	8,973.81	40.87	339.44	341.89	83.13	0.75	419,009.97	613,989.04	
9,068.00	7.20	85.40	9,047.22	41.80	348.73	351.23	83.16	0.41	419,010.90	613,998.33	
9,133.00	7.80	86.30	9,111.66	42.42	357.19	359.70	83.23	0.94	419,011.52	614,006.79	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
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)
9,227.00	6.20	83.20		9,204.96	43.43	368.60	371.15	83.28	1.75	419,012.53	614,018.20
9,322.00	1.50	142.20		9,299.74	43.05	374.46	376.93	83.44	5.87	419,012.15	614,024.06
9,416.00	1.60	161.40		9,393.71	40.84	375.63	377.85	83.80	0.56	419,009.94	614,025.23
9,510.00	1.50	169.80		9,487.67	38.38	376.27	378.22	84.18	0.26	419,007.48	614,025.87
9,605.00	1.10	150.30		9,582.65	36.37	376.94	378.69	84.49	0.62	419,005.47	614,026.54
9,652.00	2.50	17.70		9,629.64	36.95	377.48	379.28	84.41	7.11	419,006.05	614,027.08
9,652.53	2.55	17.34		9,630.17	36.97	377.48	379.29	84.41	10.37	419,006.07	614,027.08
CORRAL CANYON 3-34 FED 108H KOPp5											
9,699.00	7.30	6.40		9,676.45	40.90	378.12	380.33	83.83	10.37	419,010.00	614,027.72
9,745.00	11.80	8.00		9,721.80	48.46	379.10	382.19	82.72	9.80	419,017.56	614,028.70
9,794.00	16.70	12.40		9,769.28	60.31	381.31	386.05	81.01	10.23	419,029.41	614,030.91
9,842.00	21.30	17.20		9,814.66	75.38	385.38	392.68	78.93	10.11	419,044.48	614,034.98
9,888.00	25.90	15.70		9,856.80	93.04	390.57	401.50	76.60	10.08	419,062.14	614,040.17
9,935.00	30.50	12.80		9,898.21	114.57	395.99	412.23	73.86	10.21	419,083.67	614,045.59
9,983.00	35.10	10.40		9,938.55	140.04	401.18	424.92	70.76	9.96	419,109.14	614,050.78
10,030.00	40.50	8.00		9,975.67	168.46	405.75	439.33	67.45	11.91	419,137.56	614,055.35
10,057.00	43.20	8.18		9,995.78	186.29	408.29	448.78	65.47	10.01	419,155.39	614,057.89
Wellpath Crosses Unit Line @ Heel											
10,077.00	45.20	8.30		10,010.12	200.09	410.28	456.48	64.00	10.01	419,169.19	614,059.88
10,127.00	49.40	7.00		10,044.02	236.50	415.16	477.80	60.33	8.61	419,205.60	614,064.76
10,172.00	53.20	4.50		10,072.16	271.44	418.66	498.95	57.04	9.49	419,240.54	614,068.26
10,219.00	58.90	1.90		10,098.40	310.34	420.80	522.87	53.59	12.97	419,279.44	614,070.40
10,266.00	62.80	2.50		10,121.29	351.35	422.38	549.41	50.25	8.37	419,320.45	614,071.98
10,313.00	66.40	2.60		10,141.44	393.76	424.27	578.84	47.14	7.66	419,362.86	614,073.87
10,361.00	70.10	2.80		10,159.23	438.29	426.37	611.46	44.21	7.72	419,407.39	614,075.97
10,408.00	70.50	3.20		10,175.07	482.47	428.69	645.41	41.62	1.17	419,451.57	614,078.29
10,430.88	72.98	3.00		10,182.24	504.17	429.86	662.55	40.45	10.88	419,473.27	614,079.46
CORRAL CANYON 3-34 FED 108H 80°											

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 108H
Wellbore: CORRAL CANYON 3-34 FED 108H
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

Local Co-ordinate Reference: Well CORRAL CANYON 3-34 FED 108H
TVD Reference: 3034+27 @ 3061.00usft (ScanProducer)
MD Reference: 3034+27 @ 3061.00usft (ScanProducer)
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)	
10,446.00	74.62	2.87	10,186.46	518.67	430.61	674.12	39.70	10.88	419,487.77	614,080.21	
Wellpath Crosses FTP											
10,453.21	75.41	2.81	10,188.32	525.63	430.95	679.71	39.35	10.88	419,494.73	614,080.55	
CORRAL CANYON 3-34 FED 108H FTP p5											
10,455.00	75.60	2.80	10,188.77	527.36	431.04	681.10	39.26	10.88	419,496.46	614,080.64	
10,505.00	82.00	1.30	10,198.47	576.35	432.79	720.75	36.90	13.13	419,545.45	614,082.39	
10,550.00	87.20	0.60	10,202.71	621.12	433.53	757.46	34.91	11.66	419,590.22	614,083.13	
10,564.52	87.55	0.69	10,203.37	635.63	433.69	769.49	34.31	2.50	419,604.73	614,083.29	
CORRAL CANYON 3-34 FED 108H LP p5											
10,645.00	89.50	1.20	10,205.44	716.07	435.02	837.85	31.28	2.50	419,685.17	614,084.62	
10,739.00	91.00	2.10	10,205.03	810.02	437.72	920.73	28.39	1.86	419,779.12	614,087.32	
10,834.00	91.10	1.20	10,203.29	904.97	440.46	1,006.46	25.95	0.95	419,874.07	614,090.06	
10,928.00	86.00	0.00	10,205.67	998.90	441.44	1,092.10	23.84	5.57	419,968.00	614,091.04	
11,023.00	88.30	0.80	10,210.39	1,093.77	442.11	1,179.74	22.01	2.56	420,062.87	614,091.71	
11,116.00	88.80	0.20	10,212.75	1,186.74	442.92	1,266.70	20.47	0.84	420,155.84	614,092.52	
11,211.00	89.80	359.70	10,213.91	1,281.73	442.84	1,356.07	19.06	1.18	420,250.83	614,092.44	
11,305.00	91.10	359.40	10,213.17	1,375.72	442.10	1,445.01	17.82	1.42	420,344.82	614,091.70	
11,400.00	89.40	1.50	10,212.75	1,470.71	442.84	1,535.93	16.76	2.84	420,439.81	614,092.44	
11,494.00	90.50	1.60	10,212.84	1,564.67	445.39	1,626.83	15.89	1.18	420,533.77	614,094.99	
11,589.00	90.60	1.10	10,211.92	1,659.64	447.62	1,718.95	15.09	0.54	420,628.74	614,097.22	
11,682.00	90.10	0.00	10,211.36	1,752.63	448.52	1,809.11	14.35	1.30	420,721.73	614,098.12	
11,777.00	90.00	0.00	10,211.27	1,847.63	448.52	1,901.29	13.64	0.11	420,816.73	614,098.12	
11,871.00	90.70	0.20	10,210.70	1,941.63	448.68	1,992.80	13.01	0.77	420,910.73	614,098.28	
11,966.00	89.00	0.20	10,210.95	2,036.63	449.01	2,085.54	12.43	1.79	421,005.73	614,098.61	
12,061.00	89.10	0.40	10,212.52	2,131.61	449.51	2,178.49	11.91	0.24	421,100.71	614,099.11	
12,155.00	90.30	0.80	10,213.02	2,225.60	450.49	2,270.74	11.44	1.35	421,194.70	614,100.09	
12,250.00	89.90	0.10	10,212.85	2,320.60	451.24	2,364.07	11.00	0.85	421,289.70	614,100.84	
12,345.00	90.90	0.00	10,212.19	2,415.60	451.32	2,457.40	10.58	1.06	421,384.70	614,100.92	

Survey Report Landscape

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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)
12,438.00	90.20	1.90	10,211.29	2,508.58	452.87	2,549.12	10.23	2.18	421,477.68	614,102.47
12,532.00	88.90	2.80	10,212.03	2,602.49	456.72	2,642.26	9.95	1.68	421,571.59	614,106.32
12,627.00	90.30	3.30	10,212.70	2,697.35	461.77	2,736.59	9.71	1.56	421,666.45	614,111.37
12,721.00	88.70	2.70	10,213.52	2,791.21	466.69	2,829.96	9.49	1.82	421,760.31	614,116.29
12,816.00	91.30	3.70	10,213.52	2,886.06	472.00	2,924.40	9.29	2.93	421,855.16	614,121.60
12,911.00	87.50	1.60	10,214.51	2,980.93	476.39	3,018.75	9.08	4.57	421,950.03	614,125.99
13,005.00	88.40	359.30	10,217.87	3,074.86	477.12	3,111.65	8.82	2.63	422,043.96	614,126.72
13,100.00	90.90	0.60	10,218.45	3,169.85	477.04	3,205.54	8.56	2.97	422,138.95	614,126.64
13,194.00	91.50	358.70	10,216.48	3,263.82	476.47	3,298.41	8.31	2.12	422,232.92	614,126.07
13,289.00	88.50	357.20	10,216.48	3,358.74	473.07	3,391.90	8.02	3.53	422,327.84	614,122.67
13,384.00	91.10	358.30	10,216.82	3,453.66	469.34	3,485.41	7.74	2.97	422,422.76	614,118.94
13,479.00	91.60	357.90	10,214.58	3,548.58	466.19	3,579.07	7.48	0.67	422,517.68	614,115.79
13,573.00	90.40	359.10	10,212.94	3,642.53	463.73	3,671.93	7.26	1.81	422,611.63	614,113.33
13,667.00	90.30	359.40	10,212.36	3,736.52	462.50	3,765.04	7.06	0.34	422,705.62	614,112.10
13,762.00	90.30	358.90	10,211.87	3,831.51	461.09	3,859.15	6.86	0.53	422,800.61	614,110.69
13,856.00	90.90	358.70	10,210.88	3,925.48	459.12	3,952.24	6.67	0.67	422,894.58	614,108.72
13,950.00	89.70	359.70	10,210.39	4,019.47	457.81	4,045.46	6.50	1.66	422,988.57	614,107.41
14,045.00	91.30	359.90	10,209.56	4,114.46	457.48	4,139.82	6.34	1.70	423,083.56	614,107.08
14,139.00	92.00	359.60	10,206.85	4,208.42	457.07	4,233.17	6.20	0.81	423,177.52	614,106.67
14,234.00	88.80	358.60	10,206.19	4,303.40	455.58	4,327.44	6.04	3.53	423,272.50	614,105.18
14,329.00	89.60	358.80	10,207.52	4,398.36	453.42	4,421.67	5.89	0.87	423,367.46	614,103.02
14,423.00	91.50	358.50	10,206.61	4,492.33	451.21	4,514.93	5.74	2.05	423,461.43	614,100.81
14,517.00	90.80	358.90	10,204.73	4,586.28	449.08	4,608.22	5.59	0.86	423,555.38	614,098.68
14,612.00	87.10	358.50	10,206.47	4,681.22	446.92	4,702.51	5.45	3.92	423,650.32	614,096.52
14,707.00	91.10	359.40	10,207.96	4,776.18	445.18	4,796.88	5.33	4.32	423,745.28	614,094.78
14,801.00	88.00	1.10	10,208.70	4,870.16	445.59	4,890.50	5.23	3.76	423,839.26	614,095.19
14,896.00	92.40	2.40	10,208.37	4,965.09	448.49	4,985.30	5.16	4.83	423,934.19	614,098.09

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)	
14,990.00	90.60	1.70	10,205.91	5,058.99	451.85	5,079.13	5.10	2.05	424,028.09	614,101.45	
15,085.00	89.80	0.50	10,205.58	5,153.97	453.68	5,173.90	5.03	1.52	424,123.07	614,103.28	
15,088.00	89.78	0.46	10,205.59	5,156.97	453.70	5,176.89	5.03	1.44	424,126.07	614,103.30	
Wellpath Crosses LTP											
15,088.71	89.77	0.46	10,205.59	5,157.68	453.71	5,177.60	5.03	1.44	424,126.78	614,103.31	
CORRAL CANYON 3-34 FED 108H LTP p5											
15,160.00	89.20	359.60	10,206.23	5,228.97	453.74	5,248.62	4.96	1.44	424,198.07	614,103.34	
15,205.00	89.20	359.60	10,206.86	5,273.96	453.43	5,293.42	4.91	0.00	424,243.06	614,103.03	
CORRAL CANYON 3-34 FED 108H PBHL_200FNL_430FEL											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
155.00	155.00	0.30	0.75	First Stryker Survey
10,057.00	9,995.78	186.29	408.29	Wellpath Crosses Unit Line @ Heel
10,446.00	10,186.46	518.67	430.61	Wellpath Crosses FTP
15,088.00	10,205.59	5,156.97	453.70	Wellpath Crosses LTP

Checked By: _____ Approved By: _____ Date: _____

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Corral Canyon 3-34 Fed
 Well: CORRAL CANYON 3-34 FED 108H
 Wellbore: CORRAL CANYON 3-34 FED 108H
 Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

3034+27 @ 3061.00usft (ScanProducer)
 NAD 1927 (NADCON CONUS)



ANNOTATIONS

MD	inc	Azi	TVD	+N/-S	+E/-W	Annotation
155.00	0.60	68.00	155.00	0.30	0.75	First Stryker Survey
10057.00	43.20	8.18	9995.78	186.29	408.29	Wellpath Crosses Unit Line @ Heel
10446.00	74.62	2.87	10186.46	518.67	430.61	Wellpath Crosses FTP
15088.00	89.78	0.46	10205.59	5156.97	453.70	Wellpath Crosses LTP

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
CORRAL CANYON 3-34 FED 108H SHL	0.00	0.00	0.00	418969.10	613649.60
CORRAL CANYON 3-34 FED 108H BHL (213FNL,429FEL)	10206.86	5273.96	453.43	424243.06	614103.03
CORRAL CANYON 3-34 FED 108H FTP p5	10212.00	518.18	454.00	419487.28	614103.60
CORRAL CANYON 3-34 FED 108H LTP p5	10212.00	5157.62	453.00	424126.72	614102.60
CORRAL CANYON 3-34 FED 108H PBHL_200FNL_430FEL	10212.00	5287.62	452.90	424256.72	614102.50



Azimuths to Grid North
 True North: -0.20°
 Magnetic North: 6.78°

Magnetic Field
 Strength: 47709.4nT
 Dip Angle: 59.91°
 Date: 11/20/2018
 Model: IGRF2015

To convert a Magnetic Direction to a True Direction, Add 6.98° East
 To convert a Magnetic Direction to a Grid Direction, Add 6.78°
 Magnetic North is 6.98° East of True North (Magnetic Declination)
 Magnetic North is 6.78° East of Grid North (Magnetic Convergence)

Vertical Section at 359.98° (1500 usft/in)

Design: CORRAL CANYON 3-34 FED 108H (AsDrilled) (CORRAL CANYON 3-34 FED 108H/CORRAL CANYON 3-34 FED 108H)

Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 8:25, February 07 2019

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



XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Corral Canyon 3-34 Fed
 Well: CORRAL CANYON 3-34 FED 108H
 Wellbore: CORRAL CANYON 3-34 FED 108H
 Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)

3034+27 @ 3061.00usft (ScanProducer)
 NAD 1927 (NADCON CONUS)

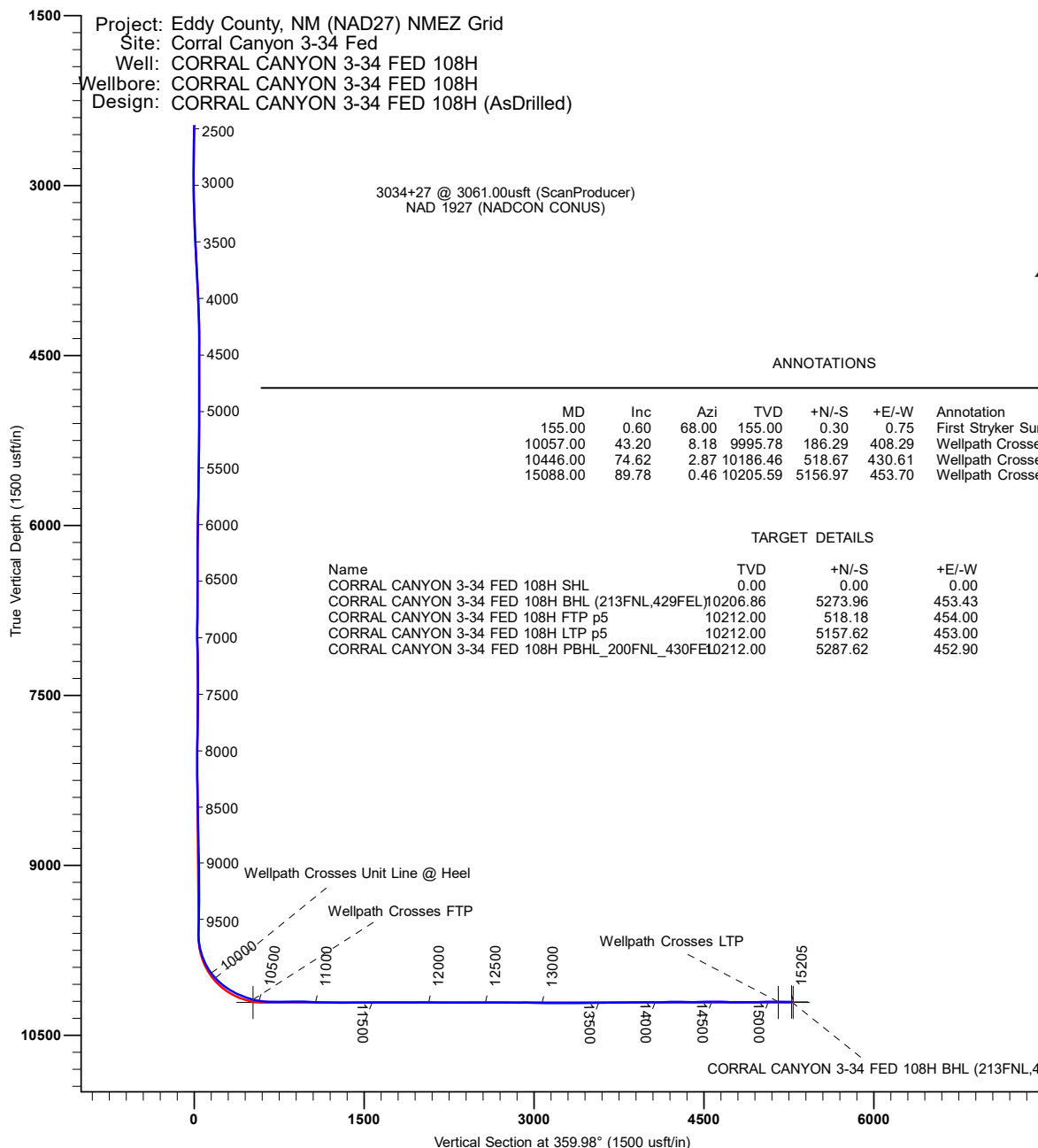


ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
155.00	0.60	68.00	155.00	0.30	0.75	First Stryker Survey
10057.00	43.20	8.18	9995.78	186.29	408.29	Wellpath Crosses Unit Line @ Heel
10446.00	74.62	2.87	10186.46	518.67	430.61	Wellpath Crosses FTP
15088.00	89.78	0.46	10205.59	5156.97	453.70	Wellpath Crosses LTP

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
CORRAL CANYON 3-34 FED 108H SHL	0.00	0.00	0.00	418969.10	613649.60
CORRAL CANYON 3-34 FED 108H BHL (213FNL,429FEL)	10206.86	5273.96	453.43	424243.06	614103.03
CORRAL CANYON 3-34 FED 108H FTP p5	10212.00	518.18	454.00	419487.28	614103.60
CORRAL CANYON 3-34 FED 108H LTP p5	10212.00	5157.62	453.00	424126.72	614102.60
CORRAL CANYON 3-34 FED 108H PBHL_200FNL_430FEL	10212.00	5287.62	452.90	424256.72	614102.50



Azimuths to Grid North
 True North: -0.20°
 Magnetic North: 6.78°

Magnetic Field
 Strength: 47709.4nT
 Dip Angle: 59.91°
 Date: 11/20/2018
 Model: IGRF2015

To convert a Magnetic Direction to a True Direction, Add 6.98° East
 To convert a Magnetic Direction to a Grid Direction, Add 6.78°
 Magnetic North is 6.98° East of True North (Magnetic Declination)
 Magnetic North is 6.78° East of Grid North (Magnetic Convergence)

Design: CORRAL CANYON 3-34 FED 108H (AsDrilled) (CORRAL CANYON 3-34 FED 108H/CORRAL CANYON 3-34 FED 108H)

Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 8:25, February 07 2019

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



Survey Report Landscape

Company:	XTO Energy				Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H	
Project:	Eddy County, NM (NAD27) NMEZ Grid				TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)	
Site:	Corral Canyon 3-34 Fed				MD Reference:	3034+27 @ 3061.00usft (ScanProducer)	
Well:	CORRAL CANYON 3-34 FED 108H				North Reference:	Grid	
Wellbore:	CORRAL CANYON 3-34 FED 108H				Survey Calculation Method:	Minimum Curvature	
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)				Database:	STRYKER_EDM	

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	Corral Canyon 3-34 Fed						
Site Position:			Northing:	418,968.80 usft	Latitude:	32.15132979	
From:	Map		Easting:	613,589.50 usft	Longitude:	-103.96630633	
Position Uncertainty:	0.00 usft		Slot Radius:	13.20 in	Grid Convergence:	0.20 °	

Well	CORRAL CANYON 3-34 FED 108H						
Well Position	+N/-S	0.00 usft	Northing:	418,969.10 usft	Latitude:	32.15133005	
	+E/-W	0.00 usft	Easting:	613,649.60 usft	Longitude:	-103.96611213	
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,034.00 usft	

Wellbore	CORRAL CANYON 3-34 FED 108H						
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		
	IGRF2015	11/20/18	6.98	59.91	47,709.44065566		

Design	CORRAL CANYON 3-34 FED 108H (AsDrilled)						
Audit Notes:							
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)			
	0.00	0.00	0.00	359.98			

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	Database:	STRYKER_EDM

Survey Program		Date 02/07/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
155.00	638.00	Survey #1 (CORRAL CANYON 3-34 FED	MWD	OWSG MWD - Standard	
672.00	15,160.00	Survey #2 (CORRAL CANYON 3-34 FED	MWD	OWSG MWD - Standard	
15,205.00	15,205.00	Survey #3 (CORRAL CANYON 3-34 FED	Projection	Projection	

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	418,969.10	613,649.60
CORRAL CANYON 3-34 FED 108H SHL										
155.00	0.60	68.00	155.00	0.30	0.75	0.81	68.00	0.39	418,969.40	613,650.35
First Stryker Survey										
249.00	0.60	97.80	248.99	0.42	1.70	1.75	76.04	0.33	418,969.52	613,651.30
344.00	0.60	69.50	343.99	0.53	2.66	2.71	78.75	0.31	418,969.63	613,652.26
376.00	0.50	356.70	375.99	0.73	2.80	2.90	75.48	2.06	418,969.83	613,652.40
471.00	1.00	4.80	470.98	1.97	2.85	3.46	55.39	0.54	418,971.07	613,652.45
566.00	1.40	2.60	565.96	3.95	2.97	4.94	36.94	0.42	418,973.05	613,652.57
588.00	1.30	9.60	587.95	4.47	3.03	5.39	34.11	0.88	418,973.57	613,652.63
638.00	1.40	7.80	637.94	5.63	3.20	6.48	29.63	0.22	418,974.73	613,652.80
672.00	1.40	354.40	671.93	6.46	3.22	7.21	26.50	0.96	418,975.56	613,652.82
767.00	1.50	340.10	766.90	8.78	2.68	9.18	16.99	0.39	418,977.88	613,652.28
861.00	1.70	340.80	860.86	11.25	1.80	11.40	9.11	0.21	418,980.35	613,651.40
956.00	1.40	330.90	955.83	13.60	0.78	13.62	3.27	0.42	418,982.70	613,650.38
1,051.00	1.00	282.50	1,050.81	14.79	-0.60	14.80	357.69	1.10	418,983.89	613,649.00
1,145.00	0.70	249.70	1,144.80	14.77	-1.94	14.90	352.53	0.60	418,983.87	613,647.66
1,240.00	0.90	249.40	1,239.79	14.31	-3.18	14.65	347.47	0.21	418,983.41	613,646.42
1,335.00	1.10	257.50	1,334.77	13.85	-4.77	14.64	341.00	0.26	418,982.95	613,644.83
1,430.00	1.00	245.20	1,429.76	13.30	-6.41	14.77	334.27	0.26	418,982.40	613,643.19
1,524.00	1.10	238.00	1,523.74	12.48	-7.92	14.78	327.60	0.18	418,981.58	613,641.68

Survey Report Landscape

Company: XTO Energy						Local Co-ordinate Reference:		Well CORRAL CANYON 3-34 FED 108H			
Project: Eddy County, NM (NAD27) NMEZ Grid						TVD Reference:		3034+27 @ 3061.00usft (ScanProducer)			
Site: Corral Canyon 3-34 Fed						MD Reference:		3034+27 @ 3061.00usft (ScanProducer)			
Well: CORRAL CANYON 3-34 FED 108H						North Reference:		Grid			
Wellbore: CORRAL CANYON 3-34 FED 108H						Survey Calculation Method:		Minimum Curvature			
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)						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)	
1,619.00	0.60	229.20	1,618.73	11.67	-9.07	14.78	322.15	0.54	418,980.77	613,640.53	
1,714.00	0.40	199.90	1,713.73	11.03	-9.56	14.60	319.10	0.34	418,980.13	613,640.04	
1,808.00	0.70	220.70	1,807.72	10.29	-10.05	14.38	315.69	0.38	418,979.39	613,639.55	
1,903.00	0.80	205.10	1,902.71	9.25	-10.71	14.15	310.83	0.24	418,978.35	613,638.89	
1,997.00	0.90	164.60	1,996.70	7.94	-10.79	13.40	306.37	0.63	418,977.04	613,638.81	
2,092.00	1.40	130.60	2,091.69	6.47	-9.71	11.67	303.68	0.87	418,975.57	613,639.89	
2,187.00	1.10	139.00	2,186.66	5.03	-8.23	9.64	301.41	0.37	418,974.13	613,641.37	
2,282.00	1.10	142.60	2,281.65	3.61	-7.08	7.95	297.05	0.07	418,972.71	613,642.52	
2,376.00	1.20	154.10	2,375.63	2.01	-6.10	6.42	288.25	0.27	418,971.11	613,643.50	
2,471.00	1.70	147.20	2,470.60	-0.07	-4.90	4.90	269.20	0.56	418,969.03	613,644.70	
2,565.00	1.80	137.70	2,564.55	-2.33	-3.15	3.92	233.50	0.33	418,966.77	613,646.45	
2,660.00	0.80	141.60	2,659.53	-3.96	-1.74	4.32	203.69	1.06	418,965.14	613,647.86	
2,754.00	0.60	100.50	2,753.52	-4.56	-0.84	4.64	190.49	0.56	418,964.54	613,648.76	
2,849.00	1.10	79.00	2,848.51	-4.48	0.54	4.51	173.12	0.62	418,964.62	613,650.14	
2,942.00	1.50	90.00	2,941.49	-4.31	2.63	5.05	148.55	0.51	418,964.79	613,652.23	
3,037.00	1.50	82.90	3,036.45	-4.15	5.11	6.59	129.09	0.20	418,964.95	613,654.71	
3,132.00	1.20	27.80	3,131.43	-3.12	6.81	7.49	114.61	1.34	418,965.98	613,656.41	
3,226.00	1.70	13.90	3,225.40	-0.89	7.60	7.66	96.71	0.65	418,968.21	613,657.20	
3,321.00	1.90	2.20	3,320.35	2.05	8.00	8.26	75.65	0.44	418,971.15	613,657.60	
3,416.00	2.70	359.70	3,415.28	5.86	8.05	9.96	53.96	0.85	418,974.96	613,657.65	
3,511.00	2.70	3.10	3,510.17	10.33	8.16	13.16	38.31	0.17	418,979.43	613,657.76	
3,605.00	2.50	2.00	3,604.08	14.59	8.35	16.81	29.79	0.22	418,983.69	613,657.95	
3,700.00	2.70	4.90	3,698.98	18.89	8.61	20.76	24.51	0.25	418,987.99	613,658.21	
3,795.00	3.30	9.80	3,793.85	23.81	9.27	25.55	21.27	0.69	418,992.91	613,658.87	
3,890.00	3.90	25.60	3,888.66	29.42	11.13	31.46	20.73	1.21	418,998.52	613,660.73	
3,985.00	4.10	40.40	3,983.43	34.92	14.73	37.90	22.87	1.10	419,004.02	613,664.33	
4,079.00	4.10	56.30	4,077.19	39.35	19.70	44.00	26.60	1.21	419,008.45	613,669.30	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)	
4,174.00	3.50	75.70	4,171.99	41.95	25.34	49.01	31.14	1.48	419,011.05	613,674.94	
4,268.00	3.60	87.60	4,265.81	42.78	31.07	52.87	35.99	0.79	419,011.88	613,680.67	
4,363.00	3.60	91.80	4,360.62	42.81	37.03	56.60	40.86	0.28	419,011.91	613,686.63	
4,457.00	3.90	90.40	4,454.42	42.69	43.18	60.72	45.32	0.33	419,011.79	613,692.78	
4,551.00	4.00	88.00	4,548.20	42.79	49.65	65.54	49.25	0.21	419,011.89	613,699.25	
4,644.00	4.00	91.20	4,640.97	42.83	56.13	70.61	52.65	0.24	419,011.93	613,705.73	
4,739.00	3.90	90.60	4,735.75	42.73	62.68	75.86	55.72	0.11	419,011.83	613,712.28	
4,833.00	4.10	86.40	4,829.52	42.91	69.23	81.45	58.21	0.38	419,012.01	613,718.83	
4,927.00	4.40	90.50	4,923.26	43.09	76.19	87.53	60.51	0.45	419,012.19	613,725.79	
5,023.00	4.30	90.00	5,018.98	43.05	83.47	93.92	62.71	0.11	419,012.15	613,733.07	
5,118.00	4.50	92.20	5,113.70	42.91	90.75	100.39	64.69	0.28	419,012.01	613,740.35	
5,214.00	4.80	91.80	5,209.39	42.64	98.53	107.36	66.60	0.31	419,011.74	613,748.13	
5,308.00	5.00	89.90	5,303.04	42.52	106.56	114.73	68.24	0.27	419,011.62	613,756.16	
5,403.00	4.40	96.70	5,397.72	42.11	114.32	121.83	69.78	0.86	419,011.21	613,763.92	
5,497.00	3.50	103.80	5,491.50	41.00	120.69	127.46	71.24	1.09	419,010.10	613,770.29	
5,592.00	3.40	106.00	5,586.33	39.53	126.21	132.26	72.61	0.17	419,008.63	613,775.81	
5,687.00	3.70	105.60	5,681.15	37.93	131.87	137.22	73.95	0.32	419,007.03	613,781.47	
5,782.00	3.60	107.90	5,775.95	36.19	137.66	142.34	75.27	0.19	419,005.29	613,787.26	
5,877.00	3.80	102.20	5,870.76	34.61	143.58	147.69	76.45	0.44	419,003.71	613,793.18	
5,972.00	3.60	102.40	5,965.56	33.30	149.57	153.23	77.45	0.21	419,002.40	613,799.17	
6,067.00	3.80	103.40	6,060.36	31.93	155.54	158.78	78.40	0.22	419,001.03	613,805.14	
6,162.00	3.70	105.90	6,155.16	30.36	161.55	164.38	79.36	0.20	418,999.46	613,811.15	
6,257.00	3.70	103.00	6,249.96	28.83	167.49	169.95	80.23	0.20	418,997.93	613,817.09	
6,351.00	3.50	92.60	6,343.77	28.02	173.31	175.56	80.82	0.73	418,997.12	613,822.91	
6,446.00	3.30	88.50	6,438.61	27.96	178.94	181.11	81.12	0.33	418,997.06	613,828.54	
6,541.00	3.40	87.60	6,533.44	28.15	184.49	186.62	81.32	0.12	418,997.25	613,834.09	
6,635.00	3.30	95.00	6,627.28	28.03	189.97	192.02	81.61	0.47	418,997.13	613,839.57	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)	
6,730.00	3.30	90.80	6,722.13	27.76	195.42	197.38	81.92	0.25	418,996.86	613,845.02	
6,825.00	2.90	93.40	6,816.99	27.57	200.56	202.44	82.17	0.45	418,996.67	613,850.16	
6,918.00	2.80	100.80	6,909.87	27.01	205.14	206.91	82.50	0.41	418,996.11	613,854.74	
7,013.00	2.00	74.60	7,004.79	27.02	209.01	210.75	82.64	1.41	418,996.12	613,858.61	
7,108.00	1.90	47.30	7,099.74	28.52	211.77	213.68	82.33	0.97	418,997.62	613,861.37	
7,203.00	1.90	50.50	7,194.69	30.59	214.14	216.32	81.87	0.11	418,999.69	613,863.74	
7,297.00	1.40	69.40	7,288.65	31.99	216.42	218.77	81.59	0.78	419,001.09	613,866.02	
7,392.00	0.80	84.50	7,383.63	32.46	218.17	220.57	81.54	0.70	419,001.56	613,867.77	
7,486.00	0.40	207.40	7,477.63	32.23	218.67	221.03	81.61	1.14	419,001.33	613,868.27	
7,581.00	0.70	222.50	7,572.62	31.51	218.12	220.39	81.78	0.35	419,000.61	613,867.72	
7,676.00	1.20	246.50	7,667.61	30.69	216.82	218.98	81.94	0.66	418,999.79	613,866.42	
7,771.00	1.60	237.50	7,762.58	29.58	214.79	216.82	82.16	0.48	418,998.68	613,864.39	
7,866.00	1.70	247.00	7,857.54	28.31	212.37	214.25	82.41	0.31	418,997.41	613,861.97	
7,961.00	1.60	245.90	7,952.50	27.22	209.86	211.62	82.61	0.11	418,996.32	613,859.46	
8,047.00	1.40	258.20	8,038.47	26.52	207.74	209.43	82.73	0.44	418,995.62	613,857.34	
8,142.00	0.70	109.10	8,133.47	26.09	207.15	208.79	82.82	2.14	418,995.19	613,856.75	
8,236.00	4.10	89.40	8,227.37	25.94	211.06	212.64	82.99	3.67	418,995.04	613,860.66	
8,330.00	8.70	82.00	8,320.76	26.96	221.46	223.10	83.06	4.96	418,996.06	613,871.06	
8,425.00	11.00	81.30	8,414.35	29.33	237.54	239.34	82.96	2.42	418,998.43	613,887.14	
8,519.00	12.30	82.60	8,506.42	31.98	256.33	258.32	82.89	1.41	419,001.08	613,905.93	
8,614.00	11.50	83.20	8,599.37	34.40	275.77	277.91	82.89	0.85	419,003.50	613,925.37	
8,709.00	11.30	84.00	8,692.50	36.50	294.43	296.69	82.93	0.27	419,005.60	613,944.03	
8,804.00	10.10	85.40	8,785.85	38.14	311.99	314.31	83.03	1.29	419,007.24	613,961.59	
8,899.00	8.00	84.20	8,879.66	39.47	326.87	329.25	83.11	2.22	419,008.57	613,976.47	
8,994.00	7.30	83.10	8,973.81	40.87	339.44	341.89	83.13	0.75	419,009.97	613,989.04	
9,068.00	7.20	85.40	9,047.22	41.80	348.73	351.23	83.16	0.41	419,010.90	613,998.33	
9,133.00	7.80	86.30	9,111.66	42.42	357.19	359.70	83.23	0.94	419,011.52	614,006.79	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)	
9,227.00	6.20	83.20	9,204.96	43.43	368.60	371.15	83.28	1.75	419,012.53	614,018.20	
9,322.00	1.50	142.20	9,299.74	43.05	374.46	376.93	83.44	5.87	419,012.15	614,024.06	
9,416.00	1.60	161.40	9,393.71	40.84	375.63	377.85	83.80	0.56	419,009.94	614,025.23	
9,510.00	1.50	169.80	9,487.67	38.38	376.27	378.22	84.18	0.26	419,007.48	614,025.87	
9,605.00	1.10	150.30	9,582.65	36.37	376.94	378.69	84.49	0.62	419,005.47	614,026.54	
9,652.00	2.50	17.70	9,629.64	36.95	377.48	379.28	84.41	7.11	419,006.05	614,027.08	
9,652.53	2.55	17.34	9,630.17	36.97	377.48	379.29	84.41	10.37	419,006.07	614,027.08	
CORRAL CANYON 3-34 FED 108H KOPp5											
9,699.00	7.30	6.40	9,676.45	40.90	378.12	380.33	83.83	10.37	419,010.00	614,027.72	
9,745.00	11.80	8.00	9,721.80	48.46	379.10	382.19	82.72	9.80	419,017.56	614,028.70	
9,794.00	16.70	12.40	9,769.28	60.31	381.31	386.05	81.01	10.23	419,029.41	614,030.91	
9,842.00	21.30	17.20	9,814.66	75.38	385.38	392.68	78.93	10.11	419,044.48	614,034.98	
9,888.00	25.90	15.70	9,856.80	93.04	390.57	401.50	76.60	10.08	419,062.14	614,040.17	
9,935.00	30.50	12.80	9,898.21	114.57	395.99	412.23	73.86	10.21	419,083.67	614,045.59	
9,983.00	35.10	10.40	9,938.55	140.04	401.18	424.92	70.76	9.96	419,109.14	614,050.78	
10,030.00	40.50	8.00	9,975.67	168.46	405.75	439.33	67.45	11.91	419,137.56	614,055.35	
10,057.00	43.20	8.18	9,995.78	186.29	408.29	448.78	65.47	10.01	419,155.39	614,057.89	
Wellpath Crosses Unit Line @ Heel											
10,077.00	45.20	8.30	10,010.12	200.09	410.28	456.48	64.00	10.01	419,169.19	614,059.88	
10,127.00	49.40	7.00	10,044.02	236.50	415.16	477.80	60.33	8.61	419,205.60	614,064.76	
10,172.00	53.20	4.50	10,072.16	271.44	418.66	498.95	57.04	9.49	419,240.54	614,068.26	
10,219.00	58.90	1.90	10,098.40	310.34	420.80	522.87	53.59	12.97	419,279.44	614,070.40	
10,266.00	62.80	2.50	10,121.29	351.35	422.38	549.41	50.25	8.37	419,320.45	614,071.98	
10,313.00	66.40	2.60	10,141.44	393.76	424.27	578.84	47.14	7.66	419,362.86	614,073.87	
10,361.00	70.10	2.80	10,159.23	438.29	426.37	611.46	44.21	7.72	419,407.39	614,075.97	
10,408.00	70.50	3.20	10,175.07	482.47	428.69	645.41	41.62	1.17	419,451.57	614,078.29	
10,430.88	72.98	3.00	10,182.24	504.17	429.86	662.55	40.45	10.88	419,473.27	614,079.46	
CORRAL CANYON 3-34 FED 108H 80°											

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)
10,446.00	74.62	2.87	10,186.46	518.67	430.61	674.12	39.70	10.88	419,487.77	614,080.21
Wellpath Crosses FTP										
10,453.21	75.41	2.81	10,188.32	525.63	430.95	679.71	39.35	10.88	419,494.73	614,080.55
CORRAL CANYON 3-34 FED 108H FTP p5										
10,455.00	75.60	2.80	10,188.77	527.36	431.04	681.10	39.26	10.88	419,496.46	614,080.64
10,505.00	82.00	1.30	10,198.47	576.35	432.79	720.75	36.90	13.13	419,545.45	614,082.39
10,550.00	87.20	0.60	10,202.71	621.12	433.53	757.46	34.91	11.66	419,590.22	614,083.13
10,564.52	87.55	0.69	10,203.37	635.63	433.69	769.49	34.31	2.50	419,604.73	614,083.29
CORRAL CANYON 3-34 FED 108H LP p5										
10,645.00	89.50	1.20	10,205.44	716.07	435.02	837.85	31.28	2.50	419,685.17	614,084.62
10,739.00	91.00	2.10	10,205.03	810.02	437.72	920.73	28.39	1.86	419,779.12	614,087.32
10,834.00	91.10	1.20	10,203.29	904.97	440.46	1,006.46	25.95	0.95	419,874.07	614,090.06
10,928.00	86.00	0.00	10,205.67	998.90	441.44	1,092.10	23.84	5.57	419,968.00	614,091.04
11,023.00	88.30	0.80	10,210.39	1,093.77	442.11	1,179.74	22.01	2.56	420,062.87	614,091.71
11,116.00	88.80	0.20	10,212.75	1,186.74	442.92	1,266.70	20.47	0.84	420,155.84	614,092.52
11,211.00	89.80	359.70	10,213.91	1,281.73	442.84	1,356.07	19.06	1.18	420,250.83	614,092.44
11,305.00	91.10	359.40	10,213.17	1,375.72	442.10	1,445.01	17.82	1.42	420,344.82	614,091.70
11,400.00	89.40	1.50	10,212.75	1,470.71	442.84	1,535.93	16.76	2.84	420,439.81	614,092.44
11,494.00	90.50	1.60	10,212.84	1,564.67	445.39	1,626.83	15.89	1.18	420,533.77	614,094.99
11,589.00	90.60	1.10	10,211.92	1,659.64	447.62	1,718.95	15.09	0.54	420,628.74	614,097.22
11,682.00	90.10	0.00	10,211.36	1,752.63	448.52	1,809.11	14.35	1.30	420,721.73	614,098.12
11,777.00	90.00	0.00	10,211.27	1,847.63	448.52	1,901.29	13.64	0.11	420,816.73	614,098.12
11,871.00	90.70	0.20	10,210.70	1,941.63	448.68	1,992.80	13.01	0.77	420,910.73	614,098.28
11,966.00	89.00	0.20	10,210.95	2,036.63	449.01	2,085.54	12.43	1.79	421,005.73	614,098.61
12,061.00	89.10	0.40	10,212.52	2,131.61	449.51	2,178.49	11.91	0.24	421,100.71	614,099.11
12,155.00	90.30	0.80	10,213.02	2,225.60	450.49	2,270.74	11.44	1.35	421,194.70	614,100.09
12,250.00	89.90	0.10	10,212.85	2,320.60	451.24	2,364.07	11.00	0.85	421,289.70	614,100.84
12,345.00	90.90	0.00	10,212.19	2,415.60	451.32	2,457.40	10.58	1.06	421,384.70	614,100.92

Survey Report Landscape

Company: XTO Energy						Local Co-ordinate Reference:		Well CORRAL CANYON 3-34 FED 108H		
Project: Eddy County, NM (NAD27) NMEZ Grid						TVD Reference:		3034+27 @ 3061.00usft (ScanProducer)		
Site: Corral Canyon 3-34 Fed						MD Reference:		3034+27 @ 3061.00usft (ScanProducer)		
Well: CORRAL CANYON 3-34 FED 108H						North Reference:		Grid		
Wellbore: CORRAL CANYON 3-34 FED 108H						Survey Calculation Method:		Minimum Curvature		
Design: CORRAL CANYON 3-34 FED 108H (AsDrilled)						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)
12,438.00	90.20	1.90	10,211.29	2,508.58	452.87	2,549.12	10.23	2.18	421,477.68	614,102.47
12,532.00	88.90	2.80	10,212.03	2,602.49	456.72	2,642.26	9.95	1.68	421,571.59	614,106.32
12,627.00	90.30	3.30	10,212.70	2,697.35	461.77	2,736.59	9.71	1.56	421,666.45	614,111.37
12,721.00	88.70	2.70	10,213.52	2,791.21	466.69	2,829.96	9.49	1.82	421,760.31	614,116.29
12,816.00	91.30	3.70	10,213.52	2,886.06	472.00	2,924.40	9.29	2.93	421,855.16	614,121.60
12,911.00	87.50	1.60	10,214.51	2,980.93	476.39	3,018.75	9.08	4.57	421,950.03	614,125.99
13,005.00	88.40	359.30	10,217.87	3,074.86	477.12	3,111.65	8.82	2.63	422,043.96	614,126.72
13,100.00	90.90	0.60	10,218.45	3,169.85	477.04	3,205.54	8.56	2.97	422,138.95	614,126.64
13,194.00	91.50	358.70	10,216.48	3,263.82	476.47	3,298.41	8.31	2.12	422,232.92	614,126.07
13,289.00	88.50	357.20	10,216.48	3,358.74	473.07	3,391.90	8.02	3.53	422,327.84	614,122.67
13,384.00	91.10	358.30	10,216.82	3,453.66	469.34	3,485.41	7.74	2.97	422,422.76	614,118.94
13,479.00	91.60	357.90	10,214.58	3,548.58	466.19	3,579.07	7.48	0.67	422,517.68	614,115.79
13,573.00	90.40	359.10	10,212.94	3,642.53	463.73	3,671.93	7.26	1.81	422,611.63	614,113.33
13,667.00	90.30	359.40	10,212.36	3,736.52	462.50	3,765.04	7.06	0.34	422,705.62	614,112.10
13,762.00	90.30	358.90	10,211.87	3,831.51	461.09	3,859.15	6.86	0.53	422,800.61	614,110.69
13,856.00	90.90	358.70	10,210.88	3,925.48	459.12	3,952.24	6.67	0.67	422,894.58	614,108.72
13,950.00	89.70	359.70	10,210.39	4,019.47	457.81	4,045.46	6.50	1.66	422,988.57	614,107.41
14,045.00	91.30	359.90	10,209.56	4,114.46	457.48	4,139.82	6.34	1.70	423,083.56	614,107.08
14,139.00	92.00	359.60	10,206.85	4,208.42	457.07	4,233.17	6.20	0.81	423,177.52	614,106.67
14,234.00	88.80	358.60	10,206.19	4,303.40	455.58	4,327.44	6.04	3.53	423,272.50	614,105.18
14,329.00	89.60	358.80	10,207.52	4,398.36	453.42	4,421.67	5.89	0.87	423,367.46	614,103.02
14,423.00	91.50	358.50	10,206.61	4,492.33	451.21	4,514.93	5.74	2.05	423,461.43	614,100.81
14,517.00	90.80	358.90	10,204.73	4,586.28	449.08	4,608.22	5.59	0.86	423,555.38	614,098.68
14,612.00	87.10	358.50	10,206.47	4,681.22	446.92	4,702.51	5.45	3.92	423,650.32	614,096.52
14,707.00	91.10	359.40	10,207.96	4,776.18	445.18	4,796.88	5.33	4.32	423,745.28	614,094.78
14,801.00	88.00	1.10	10,208.70	4,870.16	445.59	4,890.50	5.23	3.76	423,839.26	614,095.19
14,896.00	92.40	2.40	10,208.37	4,965.09	448.49	4,985.30	5.16	4.83	423,934.19	614,098.09

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Well:	CORRAL CANYON 3-34 FED 108H	North Reference:	Grid
Wellbore:	CORRAL CANYON 3-34 FED 108H	Survey Calculation Method:	Minimum Curvature
Design:	CORRAL CANYON 3-34 FED 108H (AsDrilled)	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)	
14,990.00	90.60	1.70	10,205.91	5,058.99	451.85	5,079.13	5.10	2.05	424,028.09	614,101.45	
15,085.00	89.80	0.50	10,205.58	5,153.97	453.68	5,173.90	5.03	1.52	424,123.07	614,103.28	
15,088.00	89.78	0.46	10,205.59	5,156.97	453.70	5,176.89	5.03	1.44	424,126.07	614,103.30	
Wellpath Crosses LTP											
15,088.71	89.77	0.46	10,205.59	5,157.68	453.71	5,177.60	5.03	1.44	424,126.78	614,103.31	
CORRAL CANYON 3-34 FED 108H LTP p5											
15,160.00	89.20	359.60	10,206.23	5,228.97	453.74	5,248.62	4.96	1.44	424,198.07	614,103.34	
15,205.00	89.20	359.60	10,206.86	5,273.96	453.43	5,293.42	4.91	0.00	424,243.06	614,103.03	
CORRAL CANYON 3-34 FED 108H PBHL_200FNL_430FEL											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
155.00	155.00	0.30	0.75	First Stryker Survey	
10,057.00	9,995.78	186.29	408.29	Wellpath Crosses Unit Line @ Heel	
10,446.00	10,186.46	518.67	430.61	Wellpath Crosses FTP	
15,088.00	10,205.59	5,156.97	453.70	Wellpath Crosses LTP	

Checked By: _____	Approved By: _____	Date: _____
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