

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

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

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

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

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

Form C-101
August 1, 2011
Permit 272489

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

1. Operator Name and Address XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707		2. OGRID Number 5380
4. Property Code 317790		3. API Number 30-015-46301
5. Property Name REMUDA NORTH 25 STATE		6. Well No. 908H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	25	23S	29E		2379	S	615	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	24	23S	29E	A	200	N	735	E	Eddy

9. Pool Information

Culebra Bluff Bone Spring South	15011
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3076
16. Multiple N	17. Proposed Depth 17772	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 10/5/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	20	16	75	350	365	0
Int1	14.75	11.75	42	3209	1231	0
Int2	10.625	8.625	40	9535	1417	0
Prod	7.785	5.5	20	17772	1441	9035

Casing/Cement Program: Additional Comments

DV tool may be set in 2nd intermediate between 3200'-3600'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: _____ Printed Name: Electronically filed by Deeann Kemp Title: Regulatory Email Address: DeeAnn_Kemp@xtoenergy.com Date: 9/24/2019	OIL CONSERVATION DIVISION Approved By: Raymond Podany Title: Geologist Approved Date: 9/26/2019 Expiration Date: 9/26/2021 Conditions of Approval Attached
Phone: 432-620-6724	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name REMUDA NORTH 25 STATE			⁶ Well Number 908H
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 3,076'

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
I	25	23 S	29 E		2,379	SOUTH	615	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	23 S	29 E		200	NORTH	735	EAST	EDDY

¹² Dedicated Acres	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.

	SHL (NAD83 NME) Y = 464,048.3 X = 665,505.4 LAT. = 32.275104 °N LONG. = 103.931573 °W FTP (NAD83 NME) Y = 464,669.0 X = 665,383.0 LAT. = 32.276812 °N LONG. = 103.931962 °W CORNER COORDINATES (NAD83 NME) A - Y = 464,317.7 N , X = 666,119.3 E B - Y = 466,978.9 N , X = 666,109.3 E C - Y = 469,627.6 N , X = 666,087.4 E D - Y = 472,285.7 N , X = 666,068.1 E E - Y = 464,318.4 N , X = 664,794.2 E F - Y = 466,979.1 N , X = 664,786.8 E G - Y = 469,629.7 N , X = 664,763.7 E H - Y = 472,287.4 N , X = 664,742.0 E SHL (NAD27 NME) Y = 463,988.4 X = 624,322.6 LAT. = 32.274980 °N LONG. = 103.931082 °W FTP (NAD27 NME) Y = 464,609.1 X = 624,200.2 LAT. = 32.276688 °N LONG. = 103.931471 °W CORNER COORDINATES (NAD27 NME) A - Y = 464,257.8 N , X = 624,936.5 E B - Y = 466,918.9 N , X = 624,926.6 E C - Y = 469,567.6 N , X = 624,904.7 E D - Y = 472,225.6 N , X = 624,885.5 E E - Y = 464,258.5 N , X = 623,611.4 E F - Y = 466,919.1 N , X = 623,604.0 E G - Y = 469,569.7 N , X = 623,581.1 E H - Y = 472,227.3 N , X = 623,559.5 E	LTP (NAD83 NME) Y = 471,956.7 X = 665,335.5 LAT. = 32.296845 °N LONG. = 103.932028 °W BHL (NAD83 NME) Y = 472,086.7 X = 665,334.5 LAT. = 32.297202 °N LONG. = 103.932029 °W LTP (NAD27 NME) Y = 471,896.6 X = 624,152.9 LAT. = 32.296721 °N LONG. = 103.931535 °W BHL (NAD27 NME) Y = 472,026.6 X = 624,152.0 LAT. = 32.297078 °N LONG. = 103.931537 °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>Kelly Kardos</i> Signature _____ Date _____ Printed Name _____ E-mail Address _____
			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-13-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number LM/JC 2019082997

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

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Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 09/23/19

☒ Original Operator & OGRID No.: XTO Energy, Inc [005380]
☐ Amended - Reason for Amendment:

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

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

Well(s)/Production Facility – Remuda 500 CTB

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MMCF/D	Flared or Vented	Comments
Remuda North 25 State 908H		I-25-23S-29E	2379'FSL & 615'FEL	1.9 MMCF/D	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Lucid and will be connected to Lucid low/high pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO Energy, Inc. provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO Energy, Inc. and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Lucid's Red Hills Plant located in Sec.13, Twn.24S, Rng. 33E, Eddy County, New Mexico or Lucid's Roadrunner Plant located in Sec.32, Twn.23S, Rng. 28E, Eddy County, New Mexico The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

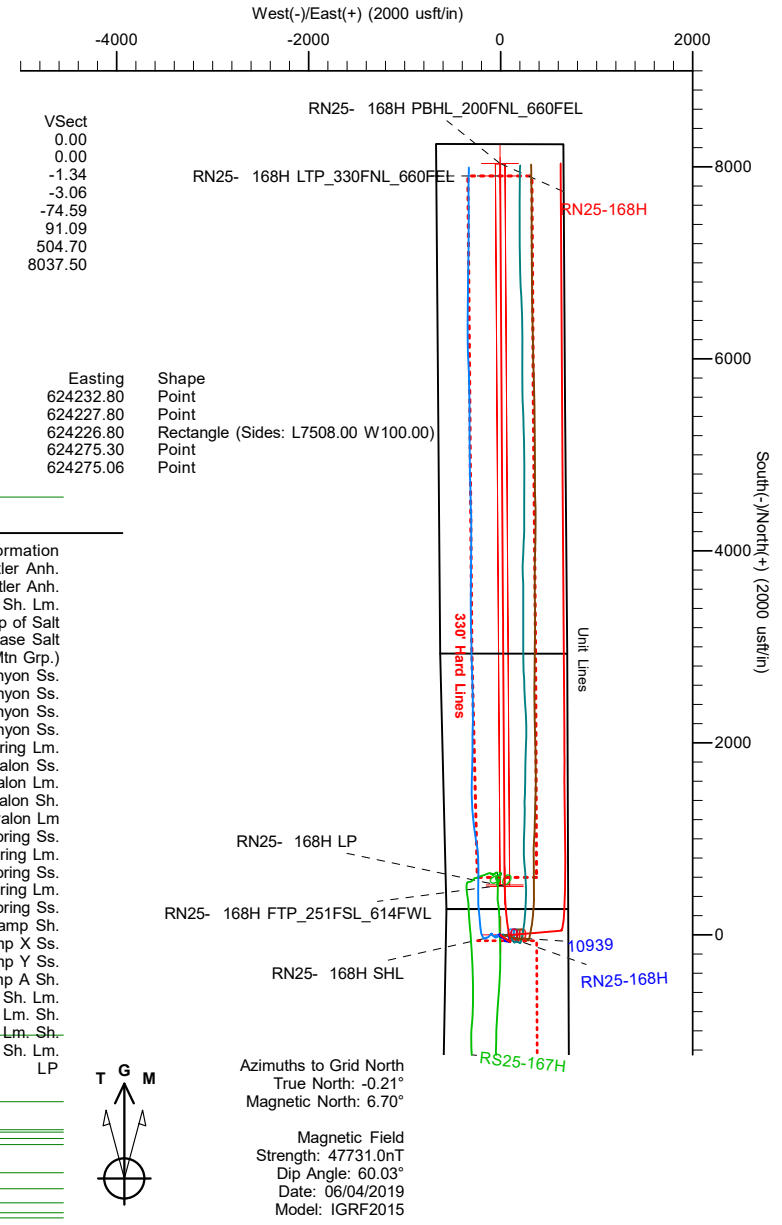
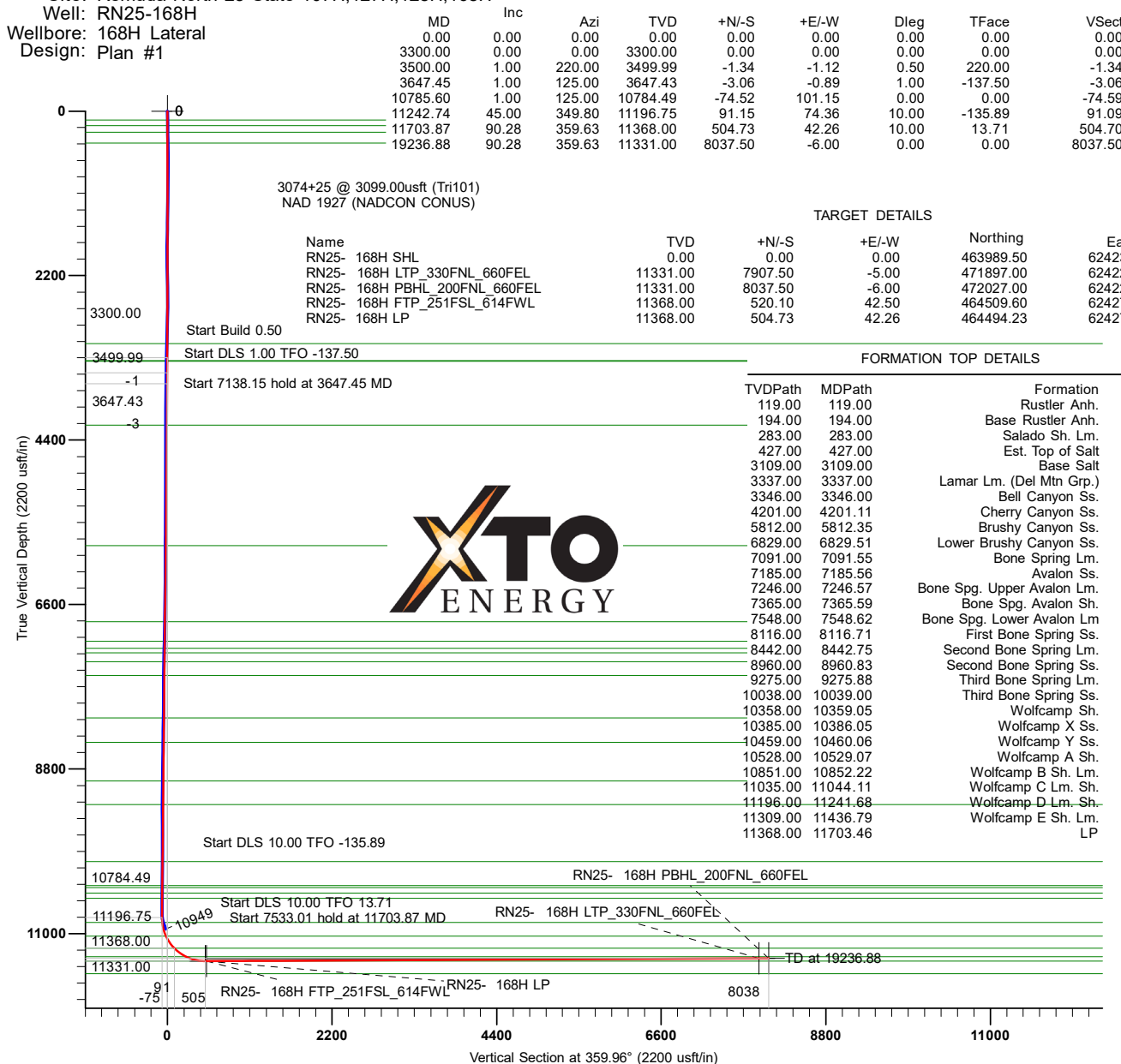
Alternatives to Reduce Flaring

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

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

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Remuda North 25 State 107H,127H,128H,168H
 Well: RN25-168H
 Wellbore: 168H Lateral
 Design: Plan #1



To convert a Magnetic Direction to a Grid Direction, Add 6.70°
 To convert a Magnetic Direction to a True Direction, Add 6.91° East
 Magnetic North is 6.70° East of Grid North (Magnetic Convergence)
 Magnetic North is 6.91° East of True North (Magnetic Declination)

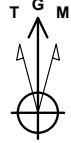
Plan: Plan #1 (RN25-168H/168H Lateral)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 8:01, September 23 2019

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



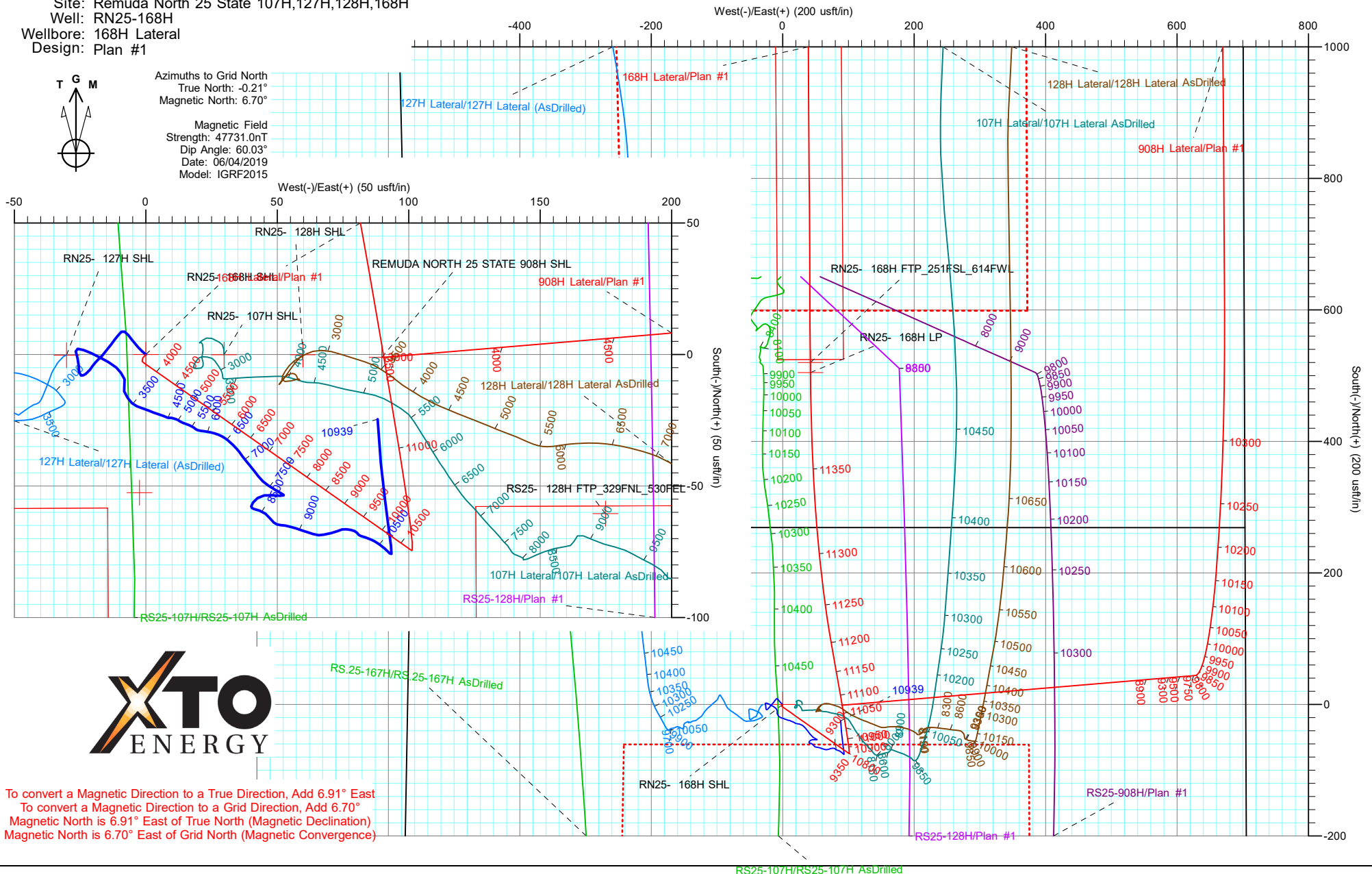
XTO Energy

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 Site: Remuda North 25 State 107H,127H,128H,168H
 Well: RN25-168H
 Wellbore: 168H Lateral
 Design: Plan #1



Azimuths to Grid North
 True North: -0.21°
 Magnetic North: 6.70°

Magnetic Field
 Strength: 47731.0nT
 Dip Angle: 60.03°
 Date: 06/04/2019
 Model: IGRF2015



To convert a Magnetic Direction to a True Direction, Add 6.91° East
 To convert a Magnetic Direction to a Grid Direction, Add 6.70°
 Magnetic North is 6.91° East of True North (Magnetic Declination)
 Magnetic North is 6.70° East of Grid North (Magnetic Convergence)

Plan: Plan #1 (RN25-168H/168H Lateral)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 8:00, September 23 2019

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 Midland, Texas 79706 - 432-687-1121



Survey Report Landscape

Company:	XTO Energy				Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL			
Project:	Eddy County, NM (NAD27) NMEZ Grid				TVD Reference:	3074+25 @ 3099.00usft (Tri101)			
Site:	Remuda North 25 State 107H,127H,128H,168H				MD Reference:	3074+25 @ 3099.00usft (Tri101)			
Well:	RN25-168H				North Reference:	Grid			
Wellbore:	168H Lateral				Survey Calculation Method:	Minimum Curvature			
Design:	168H Lateral 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	Remuda North 25 State 107H,127H,128H,168H								
Site Position:			Northing:	464,640.10 usft		Latitude:	32° 16' 36.38172028 N		
From:	Map		Easting:	624,230.00 usft		Longitude:	103° 55' 52.94589453 W		
Position Uncertainty:	0.00 usft		Slot Radius:	13.20 in		Grid Convergence:	0.21 °		

Well	RN25-168H - Slot RN25- 168H SHL								
Well Position	+N/-S	0.00 usft	Northing:	463,989.50 usft		Latitude:	32° 16' 29.94324195 N		
	+E/-W	0.00 usft	Easting:	624,232.80 usft		Longitude:	103° 55' 52.94167058 W		
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft		Ground Level:	3,074.00 usft		

Wellbore	168H Lateral								
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)				
	IGRF2015	06/04/19	6.91	60.03	47,731.01794855				

Design	168H Lateral 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	105.59					

Survey Program	Date	09/23/19							
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description					
157.00	10,949.00	Survey #1 (168H Lateral)	MWD	OWSG MWD - Standard					

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	463,989.50	624,232.80
RN25- 168H SHL										
157.00	0.40	315.50	157.00	0.39	-0.38	0.55	315.50	0.25	463,989.89	624,232.42
248.00	0.70	303.70	247.99	0.93	-1.07	1.41	310.89	0.35	463,990.43	624,231.73
317.00	1.30	317.50	316.98	1.74	-1.95	2.61	311.71	0.93	463,991.24	624,230.85
370.00	1.10	321.70	369.97	2.58	-2.67	3.71	314.01	0.41	463,992.08	624,230.13
460.00	1.20	316.60	459.95	3.94	-3.85	5.51	315.65	0.16	463,993.44	624,228.95
552.00	1.40	322.10	551.93	5.53	-5.21	7.59	316.73	0.26	463,995.03	624,227.59
644.00	1.50	321.70	643.90	7.36	-6.64	9.91	317.94	0.11	463,996.86	624,226.16
734.00	1.00	301.80	733.88	8.70	-8.04	11.85	317.26	0.73	463,998.20	624,224.76
826.00	0.90	227.20	825.87	8.63	-9.25	12.65	313.01	1.25	463,998.13	624,223.55
943.00	1.10	219.00	942.85	7.13	-10.63	12.80	303.86	0.21	463,996.63	624,222.17
1,035.00	1.30	216.60	1,034.83	5.61	-11.81	13.08	295.41	0.22	463,995.11	624,220.99
1,126.00	1.50	217.90	1,125.80	3.84	-13.16	13.71	286.27	0.22	463,993.34	624,219.64
1,216.00	1.70	219.30	1,215.77	1.88	-14.73	14.85	277.27	0.23	463,991.38	624,218.07
1,308.00	0.90	216.10	1,307.75	0.24	-16.02	16.02	270.85	0.87	463,989.74	624,216.78
1,400.00	0.30	232.00	1,399.74	-0.49	-16.63	16.64	268.30	0.67	463,989.01	624,216.17
1,491.00	0.70	227.20	1,490.74	-1.02	-17.23	17.26	266.62	0.44	463,988.48	624,215.57
1,582.00	0.90	221.60	1,581.73	-1.93	-18.11	18.21	263.92	0.24	463,987.57	624,214.69
1,673.00	1.30	224.40	1,672.71	-3.20	-19.31	19.57	260.58	0.44	463,986.30	624,213.49
1,763.00	0.70	208.70	1,762.70	-4.41	-20.29	20.76	257.73	0.73	463,985.09	624,212.51
1,853.00	1.40	217.80	1,852.68	-5.76	-21.22	21.99	254.81	0.80	463,983.74	624,211.58
1,944.00	1.50	232.10	1,943.65	-7.37	-22.85	24.01	252.11	0.41	463,982.13	624,209.95
2,035.00	1.00	280.30	2,034.63	-7.96	-24.57	25.82	252.04	1.23	463,981.54	624,208.23
2,126.00	1.60	359.10	2,125.61	-6.55	-25.37	26.20	255.52	1.88	463,982.95	624,207.43
2,218.00	1.60	354.30	2,217.58	-3.99	-25.52	25.83	261.11	0.15	463,985.51	624,207.28
2,309.00	1.80	346.10	2,308.54	-1.34	-25.98	26.02	267.05	0.35	463,988.16	624,206.82

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)	
2,399.00	1.50	345.80	2,398.50	1.18	-26.61	26.64	272.53	0.33	463,990.68	624,206.19	
2,489.00	1.30	96.80	2,488.49	2.20	-25.89	25.98	274.85	2.57	463,991.70	624,206.91	
2,580.00	1.70	107.60	2,579.46	1.67	-23.58	23.64	274.04	0.54	463,991.17	624,209.22	
2,670.00	2.20	114.80	2,669.40	0.54	-20.74	20.74	271.49	0.62	463,990.04	624,212.06	
2,761.00	2.20	117.70	2,760.34	-1.01	-17.60	17.63	266.73	0.12	463,988.49	624,215.20	
2,851.00	2.70	120.30	2,850.25	-2.88	-14.24	14.53	258.58	0.57	463,986.62	624,218.56	
2,942.00	1.90	130.20	2,941.18	-4.93	-11.24	12.28	246.31	0.98	463,984.57	624,221.56	
3,033.00	1.50	149.60	3,032.14	-6.93	-9.49	11.75	233.83	0.76	463,982.57	624,223.31	
3,124.00	1.70	151.40	3,123.10	-9.15	-8.24	12.31	222.01	0.23	463,980.35	624,224.56	
3,139.00	1.70	151.40	3,138.10	-9.54	-8.02	12.46	220.08	0.00	463,979.96	624,224.78	
3,214.00	1.80	212.70	3,213.07	-11.51	-8.13	14.09	215.24	2.38	463,977.99	624,224.67	
3,304.00	1.80	152.70	3,303.03	-13.95	-8.24	16.21	210.58	2.00	463,975.55	624,224.56	
3,395.00	1.80	150.40	3,393.99	-16.46	-6.88	17.84	202.69	0.08	463,973.04	624,225.92	
3,485.00	1.50	129.60	3,483.95	-18.44	-5.28	19.18	195.97	0.74	463,971.06	624,227.52	
3,576.00	1.40	114.10	3,574.92	-19.66	-3.34	19.94	189.65	0.44	463,969.84	624,229.46	
3,667.00	1.50	107.30	3,665.89	-20.47	-1.19	20.50	183.33	0.22	463,969.03	624,231.61	
3,757.00	1.50	111.80	3,755.86	-21.25	1.03	21.28	177.24	0.13	463,968.25	624,233.83	
3,847.00	0.70	114.70	3,845.84	-21.92	2.62	22.08	173.19	0.89	463,967.58	624,235.42	
3,939.00	0.50	103.80	3,937.84	-22.25	3.52	22.53	171.01	0.25	463,967.25	624,236.32	
4,031.00	0.50	111.90	4,029.84	-22.50	4.28	22.90	169.22	0.08	463,967.00	624,237.08	
4,122.00	0.50	105.80	4,120.83	-22.75	5.03	23.30	167.53	0.06	463,966.75	624,237.83	
4,213.00	0.60	107.70	4,211.83	-23.01	5.87	23.74	165.69	0.11	463,966.49	624,238.67	
4,304.00	0.60	116.90	4,302.82	-23.37	6.75	24.32	163.89	0.11	463,966.13	624,239.55	
4,395.00	0.60	111.10	4,393.82	-23.75	7.62	24.94	162.22	0.07	463,965.75	624,240.42	
4,485.00	0.40	108.30	4,483.81	-24.02	8.35	25.43	160.82	0.22	463,965.48	624,241.15	
4,574.00	0.40	84.40	4,572.81	-24.09	8.96	25.70	159.60	0.19	463,965.41	624,241.76	
4,665.00	0.50	95.90	4,663.81	-24.10	9.67	25.97	158.14	0.15	463,965.40	624,242.47	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
4,756.00	0.40	109.90	4,754.81	-24.25	10.36	26.37	156.86	0.16	463,965.25	624,243.16
4,846.00	0.50	100.40	4,844.80	-24.43	11.05	26.81	155.67	0.14	463,965.07	624,243.85
4,936.00	0.50	113.80	4,934.80	-24.65	11.79	27.33	154.44	0.13	463,964.85	624,244.59
5,027.00	0.50	123.00	5,025.80	-25.03	12.49	27.97	153.49	0.09	463,964.47	624,245.29
5,119.00	0.60	121.80	5,117.79	-25.50	13.23	28.73	152.58	0.11	463,964.00	624,246.03
5,211.00	0.70	112.60	5,209.79	-25.97	14.16	29.58	151.40	0.16	463,963.53	624,246.96
5,302.00	0.70	107.90	5,300.78	-26.36	15.20	30.43	150.02	0.06	463,963.14	624,248.00
5,393.00	0.80	113.40	5,391.77	-26.78	16.32	31.36	148.65	0.14	463,962.72	624,249.12
5,483.00	0.70	116.50	5,481.77	-27.28	17.38	32.34	147.49	0.12	463,962.22	624,250.18
5,575.00	0.60	123.80	5,573.76	-27.79	18.29	33.27	146.66	0.14	463,961.71	624,251.09
5,665.00	0.40	138.30	5,663.76	-28.29	18.89	34.02	146.27	0.26	463,961.21	624,251.69
5,756.00	0.80	105.70	5,754.75	-28.70	19.71	34.82	145.52	0.56	463,960.80	624,252.51
5,848.00	0.90	100.90	5,846.74	-29.01	21.04	35.84	144.05	0.13	463,960.49	624,253.84
5,938.00	1.00	96.70	5,936.73	-29.24	22.51	36.90	142.40	0.14	463,960.26	624,255.31
6,029.00	0.80	96.80	6,027.72	-29.40	23.93	37.91	140.86	0.22	463,960.10	624,256.73
6,120.00	0.90	106.40	6,118.71	-29.68	25.25	38.97	139.61	0.19	463,959.82	624,258.05
6,208.00	0.90	111.10	6,206.70	-30.12	26.56	40.16	138.60	0.08	463,959.38	624,259.36
6,298.00	0.90	111.80	6,296.69	-30.64	27.87	41.42	137.71	0.01	463,958.86	624,260.67
6,390.00	1.00	117.50	6,388.67	-31.28	29.26	42.83	136.92	0.15	463,958.22	624,262.06
6,481.00	1.00	126.30	6,479.66	-32.12	30.60	44.36	136.39	0.17	463,957.38	624,263.40
6,571.00	1.10	132.10	6,569.64	-33.16	31.87	46.00	136.13	0.16	463,956.34	624,264.67
6,663.00	1.10	133.90	6,661.63	-34.37	33.16	47.76	136.02	0.04	463,955.13	624,265.96
6,755.00	1.20	137.10	6,753.61	-35.68	34.46	49.60	136.00	0.13	463,953.82	624,267.26
6,846.00	1.10	142.60	6,844.59	-37.08	35.64	51.43	136.13	0.16	463,952.42	624,268.44
6,936.00	1.30	145.80	6,934.57	-38.61	36.73	53.29	136.42	0.23	463,950.89	624,269.53
7,027.00	1.50	140.70	7,025.54	-40.38	38.07	55.50	136.69	0.26	463,949.12	624,270.87
7,120.00	1.50	138.50	7,118.51	-42.24	39.65	57.93	136.81	0.06	463,947.26	624,272.45

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
7,210.00	1.70	143.20	7,208.48	-44.19	41.23	60.43	136.98	0.27	463,945.31	624,274.03
7,302.00	1.70	142.40	7,300.44	-46.36	42.88	63.15	137.24	0.03	463,943.14	624,275.68
7,392.00	1.50	132.10	7,390.40	-48.21	44.57	65.65	137.25	0.39	463,941.29	624,277.37
7,481.00	1.80	125.00	7,479.36	-49.79	46.57	68.18	136.91	0.41	463,939.71	624,279.37
7,573.00	2.20	119.90	7,571.31	-51.50	49.29	71.29	136.26	0.48	463,938.00	624,282.09
7,666.00	1.30	119.10	7,664.26	-52.90	51.76	74.01	135.63	0.97	463,936.60	624,284.56
7,755.00	0.30	229.80	7,753.26	-53.54	52.46	74.96	135.58	1.61	463,935.96	624,285.26
7,846.00	1.50	270.10	7,844.24	-53.70	51.09	74.12	136.42	1.41	463,935.80	624,283.89
7,937.00	2.10	276.10	7,935.20	-53.52	48.24	72.05	137.97	0.69	463,935.98	624,281.04
8,028.00	1.90	260.80	8,026.14	-53.58	45.09	70.03	139.92	0.62	463,935.92	624,277.89
8,118.00	1.70	235.00	8,116.10	-54.58	42.53	69.20	142.08	0.92	463,934.92	624,275.33
8,210.00	1.40	215.50	8,208.07	-56.28	40.76	69.49	144.09	0.65	463,933.22	624,273.56
8,291.00	0.90	183.10	8,289.05	-57.72	40.15	70.31	145.18	0.99	463,931.78	624,272.95
8,380.00	1.30	104.80	8,378.04	-58.68	41.09	71.63	145.00	1.60	463,930.82	624,273.89
8,470.00	1.70	110.00	8,468.01	-59.40	43.33	73.52	143.89	0.47	463,930.10	624,276.13
8,562.00	1.40	127.20	8,559.97	-60.54	45.51	75.74	143.07	0.60	463,928.96	624,278.31
8,654.00	1.40	142.70	8,651.95	-62.12	47.08	77.94	142.84	0.41	463,927.38	624,279.88
8,743.00	1.70	133.20	8,740.91	-63.89	48.70	80.33	142.68	0.44	463,925.61	624,281.50
8,835.00	2.00	91.10	8,832.87	-64.85	51.30	82.69	141.65	1.48	463,924.65	624,284.10
8,925.00	3.00	105.80	8,922.79	-65.52	55.14	85.64	139.92	1.31	463,923.98	624,287.94
9,016.00	1.90	109.70	9,013.70	-66.68	58.85	88.94	138.57	1.22	463,922.82	624,291.65
9,106.00	1.40	104.20	9,103.66	-67.45	61.32	91.16	137.73	0.58	463,922.05	624,294.12
9,198.00	1.60	111.90	9,195.63	-68.21	63.60	93.26	137.00	0.31	463,921.29	624,296.40
9,288.00	1.30	89.40	9,285.60	-68.66	65.79	95.09	136.22	0.71	463,920.84	624,298.59
9,379.00	1.50	78.50	9,376.58	-68.42	67.99	96.45	135.18	0.37	463,921.08	624,300.79
9,469.00	1.90	78.40	9,466.54	-67.88	70.60	97.94	133.87	0.44	463,921.62	624,303.40
9,561.00	1.30	64.80	9,558.50	-67.13	73.04	99.21	132.58	0.77	463,922.37	624,305.84

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
9,651.00	1.00	75.50	9,648.48	-66.50	74.73	100.03	131.67	0.41	463,923.00	624,307.53
9,742.00	1.10	96.70	9,739.47	-66.40	76.36	101.20	131.01	0.44	463,923.10	624,309.16
9,833.00	1.00	100.70	9,830.45	-66.65	78.01	102.61	130.51	0.14	463,922.85	624,310.81
9,923.00	0.90	116.30	9,920.44	-67.11	79.42	103.97	130.20	0.31	463,922.39	624,312.22
10,014.00	0.70	136.60	10,011.43	-67.83	80.44	105.22	130.14	0.38	463,921.67	624,313.24
10,104.00	0.40	152.90	10,101.43	-68.51	80.96	106.06	130.24	0.37	463,920.99	624,313.76
10,195.00	0.90	106.80	10,192.42	-69.00	81.79	107.01	130.15	0.75	463,920.50	624,314.59
10,285.00	1.40	107.90	10,282.40	-69.54	83.51	108.67	129.78	0.56	463,919.96	624,316.31
10,381.00	1.40	112.50	10,378.37	-70.35	85.71	110.89	129.38	0.12	463,919.15	624,318.51
10,435.00	1.80	120.10	10,432.35	-71.03	87.05	112.35	129.21	0.84	463,918.47	624,319.85
10,496.00	1.90	123.63	10,493.32	-72.07	88.73	114.31	129.09	0.25	463,917.43	624,321.53
10,586.00	1.56	132.02	10,583.28	-73.71	90.88	117.02	129.05	0.47	463,915.79	624,323.68
10,677.00	1.90	137.00	10,674.24	-75.65	92.83	119.75	129.18	0.41	463,913.85	624,325.63
10,722.00	1.07	19.73	10,719.23	-75.80	93.48	120.35	129.04	5.72	463,913.70	624,326.28
10,768.00	6.46	352.55	10,765.12	-72.82	93.29	118.35	127.98	12.02	463,916.68	624,326.09
10,813.00	11.30	352.65	10,809.56	-65.94	92.39	113.51	125.51	10.76	463,923.56	624,325.19
10,858.00	16.03	352.38	10,853.28	-55.40	91.01	106.54	121.33	10.51	463,934.10	624,323.81
10,904.00	20.25	354.63	10,896.98	-41.17	89.42	98.44	114.72	9.30	463,948.33	624,322.22
10,949.00	23.10	356.86	10,938.80	-24.60	88.20	91.57	105.59	6.59	463,964.90	624,321.00
RN25- 168H PBHL_200FNL_660FEL - RN25- 168H LTP_330FNL_660FEL - RN25- 168H FTP_251FSL_614FWL - RN25- 168H LP										

Checked By: _____	Approved By: _____	Date: _____
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Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Reference	168H Lateral AsDrilled		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum separation factor of 4.00	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	09/23/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
157.00	10,949.00	Survey #1 (168H Lateral)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Remuda North 25 State 107H,127H,128H,168H						
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,164.56	3,163.99	37.12	15.62	1.726	CC
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,350.00	3,348.93	37.73	14.93	1.655	ES
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,400.00	3,398.43	38.20	15.06	1.651	SF
RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)	3,269.91	3,269.92	22.64	0.30	1.013	Level 2, CC, ES, SF
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	2,878.24	2,875.36	77.91	58.42	3.998	CC
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	2,900.00	2,897.01	77.95	58.32	3.970	ES
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	7,700.00	7,696.14	156.61	102.94	2.918	SF
Remuda South 25 State 107H,128H,167H, 908H						
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
RS25-107H - RS25-107H - RS25-107H AsDrilled	10,485.67	10,783.50	92.66	20.70	1.288	Level 3, CC, ES, SF
RS25-128H - RS25-128H - Plan #1	10,711.19	11,073.19	100.08	24.50	1.324	Level 3, CC, ES, SF
RS25-167H - RS.25-167H - RS.25-167H AsDrilled						Out of range

Offset Design		Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled										Offset Site Error:		0.00 usft	
Survey Program:		155-MWD, 9762-MWD+IFR1+MS, 18300-Projection										Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
1,500.00	1,499.74	1,499.86	1,499.66	4.99	4.93	-135.78	-1.59	21.43	38.74	28.83	9.91	3.908			
1,550.00	1,549.73	1,549.82	1,549.62	5.17	5.11	-132.57	-2.05	21.55	39.33	29.07	10.27	3.831			
1,600.00	1,599.72	1,599.82	1,599.61	5.34	5.29	-131.85	-2.48	21.69	40.00	29.38	10.62	3.766			
1,650.00	1,649.72	1,649.84	1,649.63	5.52	5.46	-133.63	-3.01	21.81	40.77	29.79	10.98	3.714			
1,700.00	1,699.70	1,699.92	1,699.71	5.70	5.64	-131.43	-3.64	21.87	41.56	30.23	11.33	3.667			
1,750.00	1,749.70	1,750.03	1,749.81	5.88	5.82	-122.29	-4.37	21.79	41.99	30.31	11.69	3.593			
1,800.00	1,799.69	1,800.25	1,800.02	6.05	6.00	-123.90	-4.96	21.53	42.10	30.06	12.04	3.496			
1,850.00	1,849.68	1,850.45	1,850.23	6.23	6.17	-128.40	-5.15	21.00	42.19	29.79	12.40	3.403			
1,900.00	1,899.67	1,900.61	1,900.38	6.41	6.35	-137.35	-5.22	20.26	42.28	29.53	12.75	3.316			
1,950.00	1,949.65	1,950.61	1,950.37	6.59	6.52	-147.01	-5.28	19.36	42.39	29.29	13.10	3.235			
2,000.00	1,999.64	2,000.35	2,000.10	6.77	6.70	-170.63	-5.26	18.66	42.69	29.24	13.46	3.173			
2,050.00	2,049.63	2,050.08	2,049.83	6.95	6.87	149.79	-5.15	18.27	43.16	29.35	13.81	3.126			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,099.62	2,099.79	2,099.55	7.12	7.04	101.08	-4.92	18.18	43.53	29.38	14.15	3.076	
2,150.00	2,149.60	2,149.79	2,149.55	7.29	7.21	90.48	-4.61	18.29	43.70	29.20	14.50	3.014	
2,200.00	2,199.59	2,199.90	2,199.65	7.46	7.39	94.49	-4.28	18.28	43.75	28.91	14.84	2.948	
2,250.00	2,249.57	2,249.67	2,249.43	7.64	7.56	99.85	-3.89	18.31	43.95	28.77	15.18	2.895	
2,300.00	2,299.54	2,299.45	2,299.20	7.81	7.73	105.43	-3.38	18.61	44.57	29.05	15.52	2.871	
2,350.00	2,349.52	2,349.43	2,349.17	7.98	7.90	107.35	-2.78	19.03	45.40	29.53	15.87	2.861	
2,400.00	2,399.50	2,399.40	2,399.14	8.15	8.07	107.82	-2.15	19.46	46.21	29.99	16.21	2.850	
2,450.00	2,449.49	2,449.38	2,449.11	8.32	8.24	48.02	-1.60	19.91	46.58	30.02	16.56	2.813	
2,500.00	2,499.48	2,499.27	2,498.99	8.49	8.42	-4.27	-1.19	20.38	46.15	29.25	16.90	2.731	
2,550.00	2,549.47	2,549.05	2,548.77	8.66	8.59	-11.09	-0.92	21.05	45.54	28.30	17.24	2.642	
2,600.00	2,599.45	2,598.79	2,598.51	8.83	8.76	-16.64	-0.80	21.95	45.01	27.44	17.57	2.561	
2,650.00	2,649.42	2,648.52	2,648.22	9.00	8.93	-21.29	-0.87	23.13	44.60	26.69	17.91	2.490	
2,700.00	2,699.38	2,698.75	2,698.44	9.17	9.11	-24.26	-1.10	24.38	44.10	25.84	18.26	2.415	
2,750.00	2,749.34	2,749.07	2,748.75	9.33	9.28	-26.53	-1.43	25.26	43.25	24.64	18.61	2.324	
2,800.00	2,799.30	2,799.13	2,798.80	9.50	9.46	-28.72	-1.94	25.90	42.13	23.17	18.96	2.223	
2,850.00	2,849.25	2,849.13	2,848.79	9.67	9.64	-30.55	-2.67	26.47	40.75	21.45	19.30	2.111	
2,900.00	2,899.21	2,898.97	2,898.61	9.84	9.81	-35.33	-3.62	27.13	39.59	19.94	19.65	2.015	
2,950.00	2,949.18	2,948.96	2,948.59	10.02	9.99	-42.05	-4.76	27.95	39.00	19.01	19.99	1.951	
3,000.00	2,999.15	2,999.18	2,998.79	10.19	10.16	-52.14	-5.76	28.58	38.58	18.23	20.35	1.896	
3,050.00	3,049.13	3,049.34	3,048.94	10.36	10.34	-61.14	-6.54	28.94	38.21	17.51	20.70	1.846	
3,100.00	3,099.11	3,099.45	3,099.05	10.53	10.52	-63.04	-7.17	29.12	37.72	16.67	21.05	1.792	
3,150.00	3,149.09	3,149.43	3,149.03	10.71	10.69	-73.05	-7.69	29.21	37.17	15.77	21.40	1.737	
3,164.56	3,163.65	3,163.99	3,163.58	10.76	10.75	-85.88	-7.84	29.25	37.12	15.62	21.50	1.726 CC	
3,200.00	3,199.08	3,199.45	3,199.05	10.88	10.87	-117.46	-8.18	29.32	37.37	15.62	21.75	1.718	
3,250.00	3,249.05	3,249.49	3,249.08	11.06	11.05	-105.10	-8.61	29.36	38.07	15.96	22.10	1.722	
3,300.00	3,299.03	3,299.45	3,299.05	11.24	11.22	-72.33	-8.97	29.33	37.94	15.49	22.46	1.690	
3,341.71	3,340.72	3,340.73	3,340.32	11.38	11.37	-70.96	-9.17	29.58	37.75	15.01	22.74	1.660	
3,350.00	3,349.01	3,348.93	3,348.52	11.41	11.40	-70.72	-9.20	29.68	37.73	14.93	22.80	1.655 ES	
3,400.00	3,398.98	3,398.43	3,398.01	11.58	11.57	-70.53	-9.24	30.66	38.20	15.06	23.14	1.651 SF	
3,450.00	3,448.96	3,447.96	3,447.52	11.76	11.74	-61.28	-9.16	32.23	39.17	15.70	23.47	1.669	
3,500.00	3,498.95	3,497.66	3,497.17	11.93	11.92	-51.03	-8.99	34.32	40.51	16.70	23.81	1.701	
3,550.00	3,548.93	3,547.56	3,547.02	12.11	12.09	-43.30	-8.83	36.58	41.89	17.74	24.15	1.734	
3,600.00	3,598.91	3,597.58	3,596.98	12.28	12.27	-37.21	-8.70	38.90	43.22	18.72	24.50	1.764	
3,650.00	3,648.90	3,647.65	3,647.00	12.45	12.44	-33.81	-8.60	41.15	44.38	19.52	24.86	1.785	
3,700.00	3,698.88	3,697.61	3,696.91	12.63	12.62	-34.53	-8.52	43.35	45.43	20.23	25.21	1.802	
3,750.00	3,748.86	3,747.55	3,746.81	12.80	12.80	-37.36	-8.41	45.59	46.57	21.01	25.55	1.822	
3,800.00	3,798.85	3,797.59	3,796.80	12.97	12.97	-38.81	-8.32	47.83	47.83	21.92	25.91	1.846	
3,850.00	3,848.84	3,847.73	3,846.89	13.15	13.15	-40.52	-8.28	50.01	49.33	23.06	26.26	1.878	
3,900.00	3,898.84	3,898.21	3,897.33	13.32	13.33	-35.19	-8.31	51.84	50.63	24.00	26.63	1.901	
3,950.00	3,948.84	3,948.60	3,947.70	13.50	13.50	-30.38	-8.41	53.21	51.51	24.52	26.99	1.908	
4,000.00	3,998.84	3,998.89	3,997.98	13.67	13.68	-34.52	-8.61	54.27	52.10	24.76	27.35	1.905	
4,050.00	4,048.84	4,048.98	4,048.06	13.84	13.86	-35.73	-8.88	55.11	52.49	24.80	27.70	1.895	
4,100.00	4,098.83	4,098.96	4,098.03	14.02	14.04	-32.15	-9.12	55.95	52.88	24.83	28.05	1.885	
4,150.00	4,148.83	4,148.89	4,147.96	14.19	14.21	-31.09	-9.36	56.82	53.28	24.88	28.40	1.876	
4,200.00	4,198.83	4,198.82	4,197.88	14.37	14.39	-31.81	-9.65	57.78	53.72	24.97	28.75	1.868	
4,250.00	4,248.83	4,248.87	4,247.92	14.54	14.57	-35.50	-9.98	58.75	54.15	25.04	29.10	1.860	
4,300.00	4,298.82	4,298.89	4,297.92	14.72	14.75	-40.33	-10.31	59.67	54.55	25.09	29.46	1.852	
4,350.00	4,348.82	4,348.71	4,347.74	14.89	14.92	-37.65	-10.55	60.65	55.05	25.24	29.81	1.847	
4,400.00	4,398.82	4,398.61	4,397.63	15.07	15.10	-34.62	-10.66	61.76	55.67	25.51	30.16	1.846	
4,450.00	4,448.82	4,448.64	4,447.65	15.25	15.28	-33.27	-10.68	62.85	56.34	25.83	30.51	1.846	
4,500.00	4,498.81	4,498.38	4,497.37	15.42	15.45	-27.88	-10.67	63.97	57.12	26.26	30.86	1.851	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,550.00	4,548.81	4,547.89	4,546.86	15.60	15.63	-13.96	-10.82	65.49	58.27	27.07	31.20	1.868	
4,600.00	4,598.81	4,597.78	4,596.71	15.77	15.81	-10.77	-11.12	67.37	59.68	28.13	31.55	1.892	
4,650.00	4,648.81	4,647.81	4,646.71	15.95	15.99	-16.20	-11.54	69.24	61.04	29.13	31.90	1.913	
4,700.00	4,698.81	4,697.79	4,696.65	16.12	16.16	-21.76	-12.02	71.10	62.36	30.11	32.26	1.933	
4,750.00	4,748.81	4,747.75	4,746.58	16.30	16.34	-29.38	-12.49	72.96	63.76	31.15	32.61	1.955	
4,800.00	4,798.81	4,797.66	4,796.44	16.47	16.52	-24.78	-12.95	74.85	65.22	32.26	32.96	1.979	
4,850.00	4,848.80	4,847.58	4,846.32	16.65	16.70	-20.52	-13.40	76.79	66.68	33.37	33.31	2.002	
4,900.00	4,898.80	4,897.53	4,896.23	16.82	16.88	-27.51	-13.80	78.75	68.15	34.49	33.66	2.025	
4,950.00	4,948.80	4,947.46	4,946.13	17.00	17.06	-33.91	-14.17	80.73	69.68	35.66	34.02	2.048	
5,000.00	4,998.80	4,997.38	4,996.00	17.18	17.24	-38.63	-14.54	82.75	71.27	36.90	34.37	2.074	
5,050.00	5,048.80	5,047.36	5,046.94	17.35	17.41	-40.68	-14.96	84.79	72.90	38.18	34.72	2.100	
5,100.00	5,098.79	5,097.37	5,095.90	17.53	17.59	-39.69	-15.45	86.83	74.49	39.41	35.08	2.123	
5,150.00	5,148.79	5,147.47	5,145.96	17.71	17.77	-35.64	-16.05	88.83	75.98	40.54	35.44	2.144	
5,200.00	5,198.79	5,197.58	5,196.03	17.88	17.95	-30.30	-16.84	90.77	77.32	41.52	35.80	2.160	
5,250.00	5,248.78	5,247.74	5,246.14	18.06	18.13	-26.68	-17.80	92.63	78.52	42.36	36.15	2.172	
5,300.00	5,298.78	5,297.80	5,296.16	18.24	18.31	-23.35	-18.92	94.40	79.61	43.10	36.51	2.181	
5,350.00	5,348.78	5,347.65	5,345.96	18.41	18.49	-25.60	-20.06	96.20	80.73	43.87	36.86	2.190	
5,400.00	5,398.77	5,397.80	5,396.07	18.59	18.67	-27.55	-21.18	98.04	81.87	44.65	37.22	2.200	
5,450.00	5,448.77	5,448.32	5,446.54	18.77	18.85	-28.47	-22.46	99.63	82.78	45.20	37.58	2.203	
5,500.00	5,498.76	5,498.73	5,496.92	18.95	19.03	-30.09	-23.86	100.93	83.46	45.51	37.94	2.199	
5,550.00	5,548.76	5,549.11	5,547.27	19.12	19.21	-33.17	-25.33	101.98	83.97	45.66	38.30	2.192	
5,600.00	5,598.76	5,599.19	5,597.32	19.30	19.39	-37.52	-26.79	102.88	84.41	45.75	38.66	2.183	
5,650.00	5,648.76	5,649.23	5,647.33	19.48	19.57	-45.00	-28.16	103.73	84.93	45.92	39.01	2.177	
5,700.00	5,698.75	5,699.20	5,697.27	19.65	19.75	-29.46	-29.48	104.58	85.49	46.12	39.37	2.171	
5,750.00	5,748.75	5,749.20	5,747.25	19.83	19.93	-15.34	-30.79	105.43	85.84	46.12	39.72	2.161	
5,800.00	5,798.75	5,799.31	5,797.33	20.01	20.11	-11.10	-32.10	106.24	85.99	45.91	40.08	2.146	
5,850.00	5,848.74	5,849.36	5,847.37	20.19	20.29	-7.99	-33.39	106.99	86.04	45.61	40.43	2.128	
5,900.00	5,898.73	5,899.37	5,897.36	20.36	20.46	-4.72	-34.62	107.72	86.03	45.25	40.79	2.109	
5,950.00	5,948.73	5,949.35	5,947.31	20.54	20.64	-2.33	-35.82	108.44	85.98	44.84	41.14	2.090	
5,960.75	5,959.47	5,960.09	5,958.05	20.58	20.68	-2.19	-36.07	108.60	85.98	44.77	41.22	2.086	
6,000.00	5,998.72	5,999.31	5,997.25	20.72	20.82	-1.66	-37.00	109.18	86.02	44.53	41.49	2.073	
6,050.00	6,048.72	6,049.35	6,047.28	20.89	21.00	-3.41	-38.17	109.92	86.15	44.30	41.85	2.059	
6,100.00	6,098.71	6,099.41	6,097.32	21.07	21.18	-8.02	-39.30	110.63	86.23	44.03	42.20	2.043	
6,150.00	6,148.70	6,149.25	6,147.14	21.25	21.36	-10.93	-40.44	111.35	86.32	43.76	42.56	2.028	
6,200.00	6,198.70	6,199.10	6,196.97	21.43	21.54	-12.98	-41.65	112.15	86.51	43.60	42.91	2.016	
6,250.00	6,248.69	6,249.03	6,246.87	21.60	21.71	-13.12	-42.90	113.01	86.76	43.50	43.26	2.005	
6,300.00	6,298.68	6,298.99	6,296.81	21.78	21.89	-12.85	-44.19	113.89	87.07	43.45	43.62	1.996	
6,350.00	6,348.68	6,349.00	6,346.80	21.96	22.07	-15.56	-45.54	114.76	87.36	43.39	43.97	1.987	
6,400.00	6,398.67	6,398.96	6,396.73	22.14	22.25	-18.21	-46.95	115.61	87.62	43.29	44.33	1.977	
6,450.00	6,448.66	6,448.86	6,446.61	22.31	22.43	-22.51	-48.26	116.53	87.95	43.27	44.68	1.968	
6,500.00	6,498.66	6,498.87	6,496.59	22.49	22.61	-26.39	-49.51	117.48	88.33	43.29	45.04	1.961	
6,550.00	6,548.65	6,548.91	6,546.61	22.67	22.79	-29.20	-50.78	118.41	88.68	43.29	45.40	1.953	
6,600.00	6,598.64	6,598.90	6,596.57	22.85	22.97	-30.65	-52.06	119.32	89.01	43.26	45.75	1.945	
6,650.00	6,648.63	6,648.88	6,646.53	23.03	23.15	-31.27	-53.33	120.24	89.35	43.24	46.11	1.938	
6,700.00	6,698.62	6,698.75	6,696.37	23.21	23.33	-32.57	-54.56	121.21	89.74	43.28	46.46	1.931	
6,750.00	6,748.61	6,748.66	6,746.26	23.38	23.51	-34.04	-55.72	122.26	90.17	43.36	46.82	1.926	
6,800.00	6,798.60	6,798.67	6,796.24	23.56	23.69	-36.61	-56.87	123.33	90.64	43.46	47.18	1.921	
6,850.00	6,848.59	6,848.70	6,846.25	23.74	23.87	-39.51	-58.02	124.39	91.16	43.63	47.53	1.918	
6,900.00	6,898.58	6,898.78	6,896.30	23.92	24.05	-41.26	-59.14	125.43	91.65	43.76	47.89	1.914	
6,950.00	6,948.57	6,948.91	6,946.41	24.10	24.23	-41.48	-60.22	126.42	92.04	43.79	48.25	1.908	
7,000.00	6,998.55	6,999.08	6,996.56	24.28	24.41	-38.63	-61.25	127.33	92.24	43.63	48.61	1.898	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,050.00	7,048.54	7,049.11	7,046.58	24.46	24.59	-36.74	-62.24	128.19	92.27	43.31	48.97	1.884	
7,100.00	7,098.52	7,099.13	7,096.58	24.63	24.77	-35.55	-63.24	129.04	92.27	42.95	49.32	1.871	
7,150.00	7,148.50	7,149.09	7,146.53	24.81	24.95	-36.78	-64.23	129.89	92.26	42.58	49.68	1.857	
7,200.00	7,198.48	7,199.02	7,196.43	24.99	25.13	-39.40	-65.20	130.77	92.22	42.19	50.04	1.843	
7,210.54	7,209.01	7,209.51	7,206.92	25.03	25.16	-39.42	-65.41	130.96	92.22	42.11	50.11	1.840	
7,250.00	7,248.46	7,248.81	7,246.21	25.17	25.30	-39.63	-66.21	131.72	92.25	41.86	50.39	1.831	
7,300.00	7,298.44	7,298.60	7,295.98	25.35	25.48	-39.27	-67.29	132.78	92.38	41.63	50.75	1.820	
7,350.00	7,348.42	7,348.83	7,346.18	25.53	25.66	-34.10	-68.40	133.83	92.51	41.40	51.11	1.810	
7,400.00	7,398.40	7,399.04	7,396.37	25.71	25.85	-28.13	-69.48	134.76	92.51	41.04	51.47	1.797	
7,450.00	7,448.38	7,449.18	7,446.49	25.89	26.03	-23.85	-70.51	135.61	92.30	40.48	51.83	1.781	
7,500.00	7,498.35	7,499.26	7,496.55	26.07	26.21	-20.34	-71.46	136.40	91.85	39.67	52.18	1.760	
7,550.00	7,548.32	7,549.22	7,546.50	26.24	26.38	-17.52	-72.31	137.22	91.20	38.66	52.54	1.736	
7,600.00	7,598.29	7,599.34	7,596.61	26.42	26.56	-16.23	-73.10	138.04	90.42	37.52	52.90	1.709	
7,650.00	7,648.27	7,649.59	7,646.84	26.60	26.74	-15.52	-74.13	138.68	89.85	36.60	53.26	1.687	
7,681.68	7,679.94	7,681.19	7,678.43	26.71	26.86	-18.97	-74.86	139.01	89.70	36.22	53.48	1.677	
7,700.00	7,698.26	7,699.38	7,696.62	26.78	26.92	-22.91	-75.21	139.25	89.72	36.11	53.61	1.674	
7,750.00	7,748.26	7,749.02	7,746.25	26.95	27.10	-110.62	-75.87	140.12	90.47	36.51	53.96	1.677	
7,800.00	7,798.25	7,799.64	7,796.86	27.13	27.28	-159.32	-76.25	141.03	91.82	37.51	54.32	1.691	
7,850.00	7,848.24	7,850.20	7,847.41	27.30	27.46	-166.31	-76.52	141.55	93.40	38.73	54.67	1.709	
7,900.00	7,898.22	7,899.69	7,896.90	27.47	27.64	-170.09	-76.75	142.07	95.41	40.40	55.01	1.734	
7,950.00	7,948.19	7,949.47	7,946.67	27.63	27.82	-170.21	-76.98	142.83	97.93	42.57	55.36	1.769	
8,000.00	7,998.16	8,000.13	7,997.33	27.80	28.00	-162.09	-77.25	143.38	100.22	44.51	55.71	1.799	
8,050.00	8,048.13	8,050.57	8,047.77	27.97	28.18	-151.56	-77.57	143.58	102.01	45.95	56.06	1.820	
8,100.00	8,098.11	8,100.75	8,097.95	28.14	28.35	-137.31	-77.95	143.62	103.38	46.97	56.41	1.833	
8,150.00	8,148.09	8,149.52	8,146.72	28.32	28.53	-126.31	-78.21	143.81	104.59	47.83	56.76	1.843	
8,200.00	8,198.07	8,197.54	8,194.71	28.49	28.69	-116.14	-77.82	144.99	106.38	49.30	57.09	1.864	
8,250.00	8,248.06	8,247.23	8,244.36	28.67	28.87	-102.48	-76.96	146.90	108.49	51.06	57.44	1.889	
8,300.00	8,298.05	8,297.38	8,294.48	28.84	29.05	-74.75	-76.16	148.74	110.18	52.39	57.79	1.907	
8,350.00	8,348.04	8,347.70	8,344.76	29.02	29.22	-23.84	-75.45	150.44	111.25	53.10	58.15	1.913	
8,400.00	8,398.03	8,397.80	8,394.83	29.20	29.40	-7.96	-74.82	151.96	111.62	53.12	58.51	1.908	
8,450.00	8,448.02	8,446.60	8,443.59	29.37	29.57	-11.35	-74.23	153.72	112.04	53.20	58.84	1.904	
8,500.00	8,498.00	8,495.91	8,492.85	29.55	29.75	-17.78	-73.63	156.00	112.85	53.68	59.17	1.907	
8,550.00	8,547.98	8,546.49	8,543.38	29.73	29.93	-28.08	-73.19	158.24	113.80	54.25	59.54	1.911	
8,600.00	8,597.96	8,597.65	8,594.51	29.91	30.11	-37.65	-72.96	160.15	114.61	54.68	59.92	1.913	
8,650.00	8,647.95	8,649.52	8,646.35	30.09	30.29	-46.69	-72.72	161.32	114.81	54.51	60.30	1.904	
8,700.00	8,697.93	8,699.70	8,696.54	30.27	30.46	-42.67	-72.31	161.89	114.44	53.78	60.65	1.887	
8,750.00	8,747.91	8,749.01	8,745.82	30.45	30.64	-36.08	-71.28	162.72	114.11	53.11	61.00	1.871	
8,800.00	8,797.89	8,799.53	8,796.32	30.62	30.81	-12.62	-69.92	163.66	113.62	52.26	61.36	1.852	
8,850.00	8,847.86	8,849.00	8,845.77	30.80	30.98	-2.40	-68.95	164.21	112.46	50.75	61.71	1.822	
8,900.00	8,897.82	8,898.11	8,894.88	30.98	31.15	-11.08	-68.58	165.04	111.19	49.15	62.05	1.792	
8,950.00	8,947.75	8,946.26	8,942.99	31.16	31.32	-14.90	-69.03	166.75	110.57	48.20	62.36	1.773	
8,961.41	8,959.15	8,957.67	8,954.39	31.20	31.36	-15.29	-69.21	167.24	110.55	48.11	62.44	1.770	
9,000.00	8,997.71	8,996.27	8,992.95	31.34	31.50	-16.95	-69.89	168.88	110.71	47.99	62.72	1.765	
9,050.00	9,047.68	9,046.18	9,042.81	31.51	31.68	-16.01	-70.87	171.00	111.31	48.24	63.07	1.765	
9,100.00	9,097.67	9,095.91	9,092.47	31.69	31.86	-12.47	-71.74	173.21	112.24	48.81	63.42	1.770	
9,150.00	9,147.65	9,145.75	9,142.26	31.87	32.04	-15.76	-72.43	175.54	113.37	49.60	63.78	1.778	
9,200.00	9,197.63	9,195.71	9,192.16	32.05	32.22	-19.06	-73.06	177.89	114.47	50.34	64.13	1.785	
9,250.00	9,247.61	9,246.20	9,242.59	32.23	32.41	-7.52	-73.66	180.21	115.53	51.03	64.50	1.791	
9,300.00	9,297.60	9,296.95	9,293.29	32.40	32.59	5.02	-74.35	182.23	116.38	51.51	64.87	1.794	
9,350.00	9,347.59	9,347.25	9,343.56	32.58	32.77	11.58	-75.12	183.97	116.97	51.73	65.24	1.793	
9,400.00	9,397.57	9,397.44	9,393.71	32.76	32.95	15.29	-76.02	185.60	117.37	51.78	65.59	1.789	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,450.00	9,447.55	9,446.95	9,443.19	32.93	33.13	15.95	-76.97	187.26	117.68	51.75	65.94	1.785	
9,500.00	9,497.52	9,496.49	9,492.68	33.11	33.31	20.09	-77.95	189.13	118.13	51.85	66.28	1.782	
9,550.00	9,547.50	9,546.13	9,542.28	33.29	33.49	28.60	-78.98	191.15	119.03	52.41	66.63	1.787	
9,600.00	9,597.49	9,596.11	9,592.20	33.46	33.67	27.56	-80.06	193.29	120.33	53.35	66.98	1.796	
9,650.00	9,647.48	9,646.71	9,642.74	33.64	33.86	21.65	-81.31	195.26	121.54	54.20	67.35	1.805	
9,700.00	9,697.47	9,697.15	9,693.14	33.81	33.99	10.25	-82.75	196.95	122.54	54.88	67.66	1.811	
9,750.00	9,747.47	9,747.46	9,743.39	33.99	34.08	1.39	-84.46	198.44	123.32	55.39	67.93	1.815	
9,800.00	9,797.46	9,796.84	9,792.72	34.17	34.12	-0.19	-85.88	199.95	124.12	55.98	68.14	1.822	
9,850.00	9,847.45	9,845.83	9,841.67	34.35	34.15	-4.76	-85.48	202.10	125.35	57.02	68.33	1.835	
9,900.00	9,897.44	9,893.22	9,888.82	34.53	34.16	-15.07	-82.27	205.21	127.35	58.84	68.50	1.859	
9,950.00	9,947.44	9,945.67	9,940.48	34.70	34.26	-28.26	-74.06	208.86	129.45	60.60	68.84	1.880	
10,000.00	9,997.43	9,991.17	9,984.49	34.88	34.34	-44.76	-63.07	212.14	132.54	63.68	68.86	1.925	
10,050.00	10,047.43	10,032.99	10,024.15	35.06	34.40	-58.39	-50.52	216.46	138.86	70.39	68.46	2.028	
10,100.00	10,097.43	10,078.58	10,066.37	35.24	34.47	-75.33	-34.13	221.57	148.05	79.84	68.21	2.170	
10,150.00	10,147.43	10,121.00	10,104.44	35.42	34.55	-50.29	-15.93	225.76	159.77	92.18	67.59	2.364	
10,200.00	10,197.42	10,159.35	10,137.55	35.60	34.61	-42.77	3.13	229.13	174.58	108.11	66.47	2.627	
10,250.00	10,247.41	10,198.22	10,169.95	35.77	34.65	-49.24	24.35	232.31	192.71	127.28	65.43	2.945	
10,300.00	10,297.40	10,233.89	10,199.21	35.95	34.67	-55.06	44.54	235.26	213.55	149.33	64.22	3.325	
10,350.00	10,347.38	10,265.42	10,224.35	36.13	34.69	-61.36	63.36	238.07	237.42	174.60	62.83	3.779	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,050.00	1,049.83	1,049.51	1,049.45	3.40	3.49	25.52	-7.12	-35.80	26.85	19.97	6.89	3.900	
1,100.00	1,099.81	1,099.48	1,099.42	3.58	3.67	24.47	-8.04	-36.13	26.47	19.23	7.24	3.657	
1,150.00	1,149.80	1,149.45	1,149.38	3.75	3.85	23.39	-9.01	-36.48	26.04	18.45	7.59	3.431	
1,200.00	1,199.78	1,199.39	1,199.31	3.93	4.03	22.21	-10.06	-36.88	25.61	17.66	7.94	3.223	
1,250.00	1,249.76	1,249.34	1,249.24	4.10	4.21	22.10	-11.23	-37.35	25.30	17.00	8.30	3.049	
1,262.58	1,262.33	1,261.91	1,261.80	4.15	4.25	22.24	-11.55	-37.47	25.28	16.90	8.39	3.015	
1,300.00	1,299.75	1,299.31	1,299.19	4.28	4.39	22.96	-12.52	-37.83	25.40	16.75	8.65	2.936	
1,350.00	1,349.74	1,349.24	1,349.10	4.46	4.57	18.46	-13.92	-38.33	25.91	16.90	9.01	2.877	
1,400.00	1,399.74	1,399.11	1,398.94	4.63	4.75	4.20	-15.44	-38.97	26.89	17.53	9.36	2.872	
1,450.00	1,449.74	1,449.17	1,448.97	4.81	4.93	6.07	-16.99	-39.73	28.04	18.32	9.72	2.885	
1,500.00	1,499.74	1,499.40	1,499.18	4.99	5.11	7.20	-18.05	-40.40	28.66	18.58	10.08	2.844	
1,550.00	1,549.73	1,549.56	1,549.34	5.17	5.29	10.46	-18.61	-40.99	28.79	18.36	10.43	2.760	
1,600.00	1,599.72	1,599.70	1,599.48	5.34	5.46	12.04	-18.80	-41.54	28.58	17.80	10.79	2.650	
1,650.00	1,649.72	1,649.60	1,649.38	5.52	5.64	11.42	-18.87	-42.10	28.15	17.01	11.14	2.527	
1,700.00	1,699.70	1,699.49	1,699.26	5.70	5.82	14.49	-19.18	-42.74	27.81	16.32	11.50	2.419	
1,715.34	1,715.04	1,714.81	1,714.57	5.75	5.87	16.82	-19.31	-42.96	27.79	16.18	11.61	2.395	
1,750.00	1,749.70	1,749.41	1,749.17	5.88	6.00	24.20	-19.61	-43.50	27.90	16.05	11.85	2.354	
1,800.00	1,799.69	1,799.30	1,799.05	6.05	6.18	23.39	-20.11	-44.39	28.28	16.07	12.21	2.317	
1,850.00	1,849.68	1,849.11	1,848.85	6.23	6.36	20.40	-20.84	-45.46	28.62	16.06	12.56	2.279	
1,900.00	1,899.67	1,899.03	1,898.74	6.41	6.54	12.93	-21.85	-46.69	29.02	16.10	12.92	2.247	
1,950.00	1,949.65	1,949.08	1,948.76	6.59	6.72	4.52	-22.74	-47.97	29.31	16.04	13.28	2.208	
2,000.00	1,999.64	1,999.48	1,999.15	6.77	6.90	-18.24	-23.24	-49.18	29.51	15.88	13.63	2.165	
2,050.00	2,049.63	2,050.07	2,049.72	6.95	7.07	-56.72	-22.52	-50.00	29.14	15.15	13.98	2.084	
2,100.00	2,099.62	2,100.39	2,100.01	7.12	7.24	-104.33	-20.78	-50.45	28.60	14.27	14.32	1.997	
2,150.00	2,149.60	2,150.65	2,150.21	7.29	7.40	-114.40	-18.49	-50.63	28.23	13.57	14.66	1.926	
2,200.00	2,199.59	2,200.54	2,200.05	7.46	7.57	-109.93	-16.09	-50.73	27.80	12.80	15.00	1.854	
2,250.00	2,249.57	2,250.45	2,249.92	7.64	7.74	-104.46	-13.94	-50.89	27.50	12.16	15.34	1.793	
2,300.00	2,299.54	2,300.41	2,299.83	7.81	7.90	-99.04	-11.90	-51.12	27.22	11.54	15.68	1.736	
2,350.00	2,349.52	2,350.42	2,349.80	7.98	8.07	-97.33	-9.94	-51.38	26.94	10.92	16.02	1.682	
2,400.00	2,399.50	2,400.50	2,399.86	8.15	8.24	-97.47	-8.36	-51.36	26.52	10.16	16.36	1.621	
2,450.00	2,449.49	2,450.59	2,449.93	8.32	8.41	-157.44	-7.29	-50.96	26.17	9.47	16.70	1.567	
2,500.00	2,499.48	2,500.69	2,500.02	8.49	8.57	151.17	-6.93	-50.09	26.10	9.07	17.03	1.532	
2,550.00	2,549.47	2,550.77	2,550.09	8.66	8.74	145.11	-7.11	-48.83	26.05	8.69	17.36	1.500	
2,600.00	2,599.45	2,600.85	2,600.14	8.83	8.91	140.53	-7.38	-47.39	25.96	8.26	17.70	1.467 Level 3	
2,650.00	2,649.42	2,650.87	2,650.13	9.00	9.08	137.06	-7.77	-45.80	25.87	7.83	18.03	1.434 Level 3	
2,700.00	2,699.38	2,700.88	2,700.12	9.17	9.25	135.32	-8.33	-44.11	25.82	7.45	18.37	1.406 Level 3	
2,750.00	2,749.34	2,750.88	2,750.09	9.33	9.42	134.12	-9.00	-42.37	25.74	7.03	18.71	1.376 Level 3	
2,800.00	2,799.30	2,800.90	2,800.06	9.50	9.59	132.92	-9.74	-40.60	25.66	6.61	19.05	1.347 Level 3	
2,850.00	2,849.25	2,850.94	2,850.06	9.67	9.76	132.01	-10.67	-38.69	25.64	6.25	19.39	1.322 Level 3	
2,900.00	2,899.21	2,900.85	2,899.92	9.84	9.93	127.56	-11.76	-36.72	25.48	5.74	19.74	1.291 Level 3	
2,950.00	2,949.18	2,950.65	2,949.68	10.02	10.10	120.89	-12.74	-35.15	25.29	5.20	20.09	1.259 Level 3	
3,000.00	2,999.15	3,000.46	2,999.48	10.19	10.28	111.38	-13.61	-34.03	25.15	4.71	20.45	1.230 Level 2	
3,049.88	3,049.01	3,050.17	3,049.17	10.36	10.45	103.62	-14.43	-33.28	25.09	4.29	20.80	1.206 Level 2	
3,050.00	3,049.13	3,050.29	3,049.29	10.36	10.45	103.56	-14.43	-33.28	25.05	4.26	20.80	1.205 Level 2	
3,100.00	3,099.11	3,100.32	3,099.31	10.53	10.62	103.48	-15.25	-32.70	25.05	3.90	21.15	1.184 Level 2	
3,150.00	3,149.09	3,150.36	3,149.34	10.71	10.80	95.61	-16.13	-32.01	24.93	3.43	21.49	1.160 Level 2	
3,200.00	3,199.08	3,200.34	3,199.31	10.88	10.98	52.92	-17.03	-31.25	24.05	2.21	21.85	1.101 Level 2	
3,250.00	3,249.05	3,250.17	3,249.12	11.06	11.15	67.18	-17.80	-30.65	22.77	0.57	22.20	1.026 Level 2	
3,269.91	3,268.96	3,269.92	3,268.87	11.13	11.22	82.24	-18.11	-30.59	22.64	0.30	22.34	1.013 Level 2, CC, ES, SF	
3,300.00	3,299.03	3,299.77	3,298.72	11.24	11.33	103.04	-18.60	-30.75	22.95	0.40	22.55	1.018 Level 2	
3,350.00	3,349.01	3,349.43	3,348.36	11.41	11.50	108.45	-19.46	-31.64	24.45	1.57	22.88	1.069 Level 2	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)													Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,400.00	3,398.98	3,399.14	3,398.04	11.58	11.68	112.56	-20.25	-33.07	26.54	3.32	23.22	1.143	Level 2	
3,450.00	3,448.96	3,448.99	3,447.86	11.76	11.86	125.02	-21.00	-34.89	29.14	5.56	23.57	1.236	Level 2	
3,500.00	3,498.95	3,498.96	3,497.79	11.93	12.03	137.15	-21.79	-36.67	31.87	7.94	23.93	1.332	Level 3	
3,550.00	3,548.93	3,548.90	3,547.69	12.11	12.21	145.83	-22.63	-38.39	34.65	10.37	24.29	1.427	Level 3	
3,600.00	3,598.91	3,598.82	3,597.57	12.28	12.39	152.24	-23.49	-40.11	37.50	12.87	24.64	1.522		
3,650.00	3,648.90	3,648.76	3,647.48	12.45	12.57	155.95	-24.21	-41.82	40.41	15.42	24.99	1.617		
3,700.00	3,698.88	3,698.71	3,697.40	12.63	12.74	155.80	-24.67	-43.52	43.35	18.00	25.34	1.710		
3,750.00	3,748.86	3,748.71	3,747.37	12.80	12.92	153.88	-24.92	-45.16	46.19	20.50	25.70	1.798		
3,800.00	3,798.85	3,798.64	3,797.28	12.97	13.10	153.36	-24.99	-46.75	48.83	22.78	26.05	1.875		
3,850.00	3,848.84	3,848.49	3,847.10	13.15	13.27	152.03	-25.07	-48.40	51.18	24.79	26.40	1.939		
3,900.00	3,898.84	3,898.40	3,896.98	13.32	13.45	157.40	-25.18	-50.14	53.42	26.68	26.74	1.997		
3,950.00	3,948.84	3,948.35	3,946.90	13.50	13.63	162.10	-25.31	-51.87	55.60	28.51	27.10	2.052		
4,000.00	3,998.84	3,998.26	3,996.78	13.67	13.80	157.83	-25.42	-53.63	57.77	30.33	27.45	2.105		
4,050.00	4,048.84	4,048.16	4,046.64	13.84	13.98	156.61	-25.44	-55.43	59.97	32.18	27.79	2.158		
4,100.00	4,098.83	4,098.01	4,096.45	14.02	14.16	160.54	-25.06	-57.31	62.24	34.10	28.14	2.212		
4,150.00	4,148.83	4,147.83	4,146.22	14.19	14.33	162.60	-23.88	-59.30	64.64	36.15	28.49	2.269		
4,200.00	4,198.83	4,197.80	4,196.12	14.37	14.50	163.04	-22.36	-61.32	67.12	38.28	28.84	2.328		
4,250.00	4,248.83	4,247.72	4,245.99	14.54	14.68	160.48	-20.79	-63.30	69.63	40.45	29.18	2.386		
4,300.00	4,298.82	4,297.58	4,295.78	14.72	14.85	156.74	-19.26	-65.30	72.19	42.66	29.53	2.445		
4,350.00	4,348.82	4,347.50	4,345.64	14.89	15.03	160.48	-17.76	-67.33	74.81	44.93	29.88	2.504		
4,400.00	4,398.82	4,397.49	4,395.56	15.07	15.20	164.55	-16.29	-69.32	77.42	47.19	30.23	2.561		
4,450.00	4,448.82	4,447.34	4,445.36	15.25	15.37	166.89	-14.81	-71.29	79.99	49.41	30.58	2.616		
4,500.00	4,498.81	4,497.14	4,495.09	15.42	15.55	173.18	-13.26	-73.31	82.56	51.64	30.92	2.670		
4,550.00	4,548.81	4,546.95	4,544.83	15.60	15.72	-172.41	-11.71	-75.41	85.20	53.93	31.27	2.725		
4,600.00	4,598.81	4,596.76	4,594.57	15.77	15.90	-169.19	-10.28	-77.58	87.92	56.31	31.62	2.781		
4,650.00	4,648.81	4,646.65	4,644.39	15.95	16.07	-174.66	-8.85	-79.80	90.74	58.77	31.97	2.839		
4,700.00	4,698.81	4,696.99	4,694.66	16.12	16.25	179.80	-7.33	-82.00	93.58	61.26	32.32	2.895		
4,750.00	4,748.81	4,748.95	4,746.58	16.30	16.43	172.25	-5.95	-83.53	95.64	62.94	32.70	2.925		
4,800.00	4,798.81	4,799.91	4,797.52	16.47	16.61	176.89	-4.86	-84.13	96.79	63.73	33.06	2.927		
4,850.00	4,848.80	4,849.87	4,847.47	16.65	16.78	-178.88	-3.89	-84.61	97.88	64.47	33.41	2.929		
4,900.00	4,898.80	4,899.89	4,897.48	16.82	16.95	174.13	-2.98	-85.11	98.99	65.23	33.76	2.932		
4,950.00	4,948.80	4,949.93	4,947.51	17.00	17.13	167.83	-2.12	-85.58	100.08	65.97	34.11	2.934		
5,000.00	4,998.80	4,999.94	4,997.51	17.18	17.30	163.24	-1.27	-86.04	101.14	66.68	34.46	2.935		
5,050.00	5,048.80	5,049.93	5,047.50	17.35	17.48	161.34	-0.42	-86.49	102.19	67.38	34.81	2.936		
5,100.00	5,098.79	5,099.87	5,097.42	17.53	17.65	162.48	0.46	-86.93	103.30	68.14	35.16	2.938		
5,150.00	5,148.79	5,149.83	5,147.38	17.71	17.83	166.63	1.39	-87.39	104.48	68.97	35.51	2.942		
5,200.00	5,198.79	5,199.88	5,197.41	17.88	18.00	171.92	2.29	-87.83	105.71	69.85	35.86	2.948		
5,250.00	5,248.78	5,249.90	5,247.42	18.06	18.17	175.32	3.16	-88.25	106.96	70.75	36.21	2.954		
5,300.00	5,298.78	5,299.89	5,297.40	18.24	18.35	178.30	4.03	-88.67	108.21	71.64	36.56	2.959		
5,350.00	5,348.78	5,349.87	5,347.37	18.41	18.52	175.72	4.90	-89.07	109.48	72.56	36.91	2.966		
5,400.00	5,398.77	5,399.83	5,397.33	18.59	18.70	173.49	5.76	-89.49	110.80	73.54	37.26	2.973		
5,450.00	5,448.77	5,449.73	5,447.22	18.77	18.87	172.23	6.62	-89.92	112.13	74.52	37.62	2.981		
5,500.00	5,498.76	5,499.63	5,497.11	18.95	19.05	170.18	7.44	-90.41	113.46	75.49	37.97	2.988		
5,550.00	5,548.76	5,549.77	5,547.24	19.12	19.22	166.63	8.21	-90.89	114.71	76.39	38.32	2.994		
5,600.00	5,598.76	5,599.86	5,597.32	19.30	19.40	161.79	8.89	-91.33	115.84	77.17	38.67	2.996		
5,650.00	5,648.76	5,649.78	5,647.24	19.48	19.57	153.87	9.53	-91.79	116.87	77.85	39.02	2.995		
5,700.00	5,698.75	5,699.81	5,697.26	19.65	19.75	168.98	10.15	-92.27	117.89	78.51	39.38	2.994		
5,750.00	5,748.75	5,749.95	5,747.39	19.83	19.93	-177.42	10.75	-92.70	119.05	79.32	39.73	2.996		
5,800.00	5,798.75	5,799.97	5,797.41	20.01	20.10	-173.73	11.36	-93.07	120.32	80.24	40.08	3.002		
5,850.00	5,848.74	5,849.94	5,847.37	20.19	20.28	-171.18	12.02	-93.43	121.63	81.20	40.44	3.008		
5,900.00	5,898.73	5,899.96	5,897.39	20.36	20.45	-168.46	12.71	-93.77	122.99	82.20	40.79	3.015		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,950.00	5,948.73	5,950.00	5,947.42	20.54	20.63	-166.67	13.34	-94.11	124.36	83.22	41.14	3.023	
6,000.00	5,998.72	5,999.85	5,997.27	20.72	20.80	-166.62	13.93	-94.48	125.69	84.20	41.49	3.029	
6,050.00	6,048.72	6,049.79	6,047.20	20.89	20.98	-168.99	14.45	-94.93	126.99	85.15	41.84	3.035	
6,100.00	6,098.71	6,100.13	6,097.54	21.07	21.16	-174.30	14.65	-95.42	128.25	86.05	42.20	3.039	
6,150.00	6,148.70	6,150.50	6,147.91	21.25	21.34	-178.03	14.38	-95.93	129.41	86.86	42.55	3.041	
6,200.00	6,198.70	6,200.93	6,198.33	21.43	21.51	178.94	13.70	-96.42	130.42	87.51	42.91	3.039	
6,250.00	6,248.69	6,251.07	6,248.46	21.60	21.69	177.71	12.68	-96.87	131.30	88.04	43.26	3.035	
6,300.00	6,298.68	6,301.01	6,298.39	21.78	21.87	176.84	11.59	-97.35	132.19	88.57	43.62	3.031	
6,350.00	6,348.68	6,351.05	6,348.41	21.96	22.04	172.98	10.49	-97.84	133.10	89.13	43.97	3.027	
6,400.00	6,398.67	6,401.12	6,398.46	22.14	22.22	169.24	9.42	-98.28	134.04	89.72	44.32	3.024	
6,450.00	6,448.66	6,450.45	6,447.78	22.31	22.39	163.96	8.28	-98.84	135.08	90.41	44.67	3.024	
6,500.00	6,498.66	6,499.69	6,497.00	22.49	22.56	159.12	6.96	-99.72	136.38	91.35	45.02	3.029	
6,550.00	6,548.65	6,548.68	6,545.95	22.67	22.74	155.34	5.59	-100.94	138.01	92.64	45.37	3.042	
6,600.00	6,598.64	6,597.97	6,595.19	22.85	22.91	152.96	4.22	-102.50	140.02	94.30	45.72	3.063	
6,650.00	6,648.63	6,648.11	6,645.28	23.03	23.09	151.44	2.82	-104.14	142.07	95.99	46.08	3.083	
6,700.00	6,698.62	6,698.17	6,695.31	23.21	23.27	149.33	1.43	-105.70	144.07	97.64	46.43	3.103	
6,750.00	6,748.61	6,748.15	6,745.24	23.38	23.45	147.20	0.13	-107.22	146.09	99.30	46.79	3.122	
6,800.00	6,798.60	6,798.07	6,795.13	23.56	23.63	144.06	-1.10	-108.72	148.09	100.95	47.14	3.141	
6,850.00	6,848.59	6,847.97	6,844.99	23.74	23.81	140.62	-2.35	-110.24	150.05	102.55	47.50	3.159	
6,900.00	6,898.58	6,897.94	6,894.92	23.92	23.99	138.38	-3.63	-111.78	152.03	104.18	47.85	3.177	
6,950.00	6,948.57	6,947.93	6,944.87	24.10	24.16	137.79	-4.93	-113.31	154.05	105.84	48.21	3.195	
7,000.00	6,998.55	6,998.32	6,995.22	24.28	24.34	140.33	-6.28	-114.78	156.10	107.53	48.57	3.214	
7,050.00	7,048.54	7,048.70	7,045.56	24.46	24.52	141.92	-7.69	-116.11	158.11	109.18	48.93	3.231	
7,100.00	7,098.52	7,099.03	7,095.86	24.63	24.70	142.82	-9.07	-117.32	160.03	110.74	49.29	3.247	
7,150.00	7,148.50	7,149.29	7,146.09	24.81	24.88	141.35	-10.38	-118.39	161.87	112.22	49.65	3.260	
7,200.00	7,198.48	7,199.41	7,196.18	24.99	25.06	138.60	-11.70	-119.40	163.67	113.67	50.00	3.273	
7,250.00	7,248.46	7,249.76	7,246.51	25.17	25.24	138.30	-13.07	-120.35	165.44	115.08	50.36	3.285	
7,300.00	7,298.44	7,300.29	7,297.00	25.35	25.42	138.53	-14.53	-121.16	167.06	116.34	50.72	3.294	
7,350.00	7,348.42	7,349.86	7,346.55	25.53	25.59	143.50	-15.97	-121.90	168.63	117.55	51.08	3.302	
7,400.00	7,398.40	7,399.14	7,395.80	25.71	25.77	149.15	-17.25	-122.80	170.40	118.98	51.43	3.314	
7,450.00	7,448.38	7,447.75	7,444.38	25.89	25.94	153.08	-18.40	-123.95	172.59	120.81	51.77	3.334	
7,500.00	7,498.35	7,496.30	7,492.90	26.07	26.12	156.26	-19.51	-125.49	175.35	123.24	52.11	3.365	
7,550.00	7,548.32	7,545.77	7,542.32	26.24	26.29	158.76	-20.72	-127.35	178.60	126.14	52.46	3.404	
7,600.00	7,598.29	7,596.55	7,593.05	26.42	26.48	159.71	-22.02	-129.18	181.88	129.05	52.83	3.443	
7,650.00	7,648.27	7,647.37	7,643.83	26.60	26.66	159.84	-23.31	-130.75	184.59	131.39	53.20	3.470	
7,700.00	7,698.26	7,696.98	7,693.41	26.78	26.84	151.78	-24.37	-132.13	186.71	133.17	53.55	3.487	
7,750.00	7,748.26	7,746.11	7,742.51	26.95	27.01	63.84	-24.78	-133.59	188.37	134.48	53.89	3.495	
7,800.00	7,798.25	7,796.10	7,792.48	27.13	27.19	15.16	-24.87	-135.17	189.49	135.25	54.24	3.493	
7,850.00	7,848.24	7,846.27	7,842.63	27.30	27.37	8.15	-25.24	-136.75	189.96	135.37	54.59	3.480	
7,900.00	7,898.22	7,897.31	7,893.63	27.47	27.56	4.27	-25.91	-138.24	189.84	134.89	54.95	3.455	
7,950.00	7,948.19	7,948.30	7,944.61	27.63	27.74	3.97	-26.87	-139.48	189.17	133.86	55.31	3.420	
8,000.00	7,998.16	7,999.25	7,995.54	27.80	27.92	12.15	-27.36	-140.40	188.26	132.60	55.66	3.382	
8,050.00	8,048.13	8,049.96	8,046.24	27.97	28.10	23.07	-27.16	-140.97	187.27	131.25	56.02	3.343	
8,100.00	8,098.11	8,100.38	8,096.66	28.14	28.28	37.88	-26.99	-141.39	186.39	130.03	56.37	3.307	
8,150.00	8,148.09	8,150.60	8,146.88	28.32	28.46	49.65	-26.96	-141.74	185.70	128.99	56.72	3.274	
8,200.00	8,198.07	8,200.73	8,197.01	28.49	28.63	61.03	-27.05	-142.07	185.26	128.19	57.07	3.246	
8,250.00	8,248.06	8,250.96	8,247.24	28.67	28.81	76.16	-27.24	-142.36	185.09	127.67	57.42	3.223	
8,251.51	8,249.57	8,252.48	8,248.76	28.67	28.82	76.80	-27.24	-142.36	185.09	127.66	57.44	3.223	
8,300.00	8,298.05	8,301.18	8,297.46	28.84	28.99	105.09	-27.49	-142.59	185.25	127.47	57.78	3.206	
8,350.00	8,348.04	8,350.82	8,347.10	29.02	29.17	156.86	-27.75	-142.84	185.94	127.81	58.13	3.198	
8,400.00	8,398.03	8,400.60	8,396.87	29.20	29.34	173.26	-27.98	-143.18	187.28	128.79	58.49	3.202	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Site Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,450.00	8,448.02	8,451.01	8,447.29	29.37	29.52	170.50	-27.81	-143.41	188.82	129.98	58.84	3.209	
8,500.00	8,498.00	8,501.65	8,497.92	29.55	29.70	164.97	-27.14	-143.42	190.35	131.16	59.19	3.216	
8,550.00	8,547.98	8,552.68	8,548.95	29.73	29.87	155.60	-26.53	-143.19	191.47	131.93	59.54	3.216	
8,600.00	8,597.96	8,601.03	8,597.30	29.91	30.04	146.87	-26.18	-142.94	192.35	132.47	59.89	3.212	
8,650.00	8,647.95	8,647.42	8,643.68	30.09	30.20	138.57	-26.25	-143.55	193.95	133.74	60.22	3.221	
8,700.00	8,697.93	8,695.82	8,692.05	30.27	30.37	143.30	-26.70	-145.02	196.35	135.79	60.56	3.242	
8,750.00	8,747.91	8,745.57	8,741.77	30.45	30.55	150.87	-27.29	-146.67	199.05	138.13	60.91	3.268	
8,800.00	8,797.89	8,797.03	8,793.20	30.62	30.73	175.21	-28.02	-148.28	201.86	140.58	61.28	3.294	
8,850.00	8,847.86	8,849.09	8,845.25	30.80	30.92	-174.33	-28.89	-149.39	204.44	142.79	61.66	3.316	
8,900.00	8,897.82	8,900.90	8,897.04	30.98	31.10	176.97	-30.03	-150.02	206.97	144.95	62.02	3.337	
8,950.00	8,847.75	8,952.40	8,948.51	31.16	31.28	172.87	-31.54	-150.25	209.42	147.04	62.38	3.357	
9,000.00	8,997.71	9,002.90	8,998.98	31.34	31.46	170.32	-33.31	-150.29	211.24	148.51	62.73	3.368	
9,050.00	9,047.68	9,052.12	9,048.17	31.51	31.63	170.61	-35.18	-150.29	212.55	149.47	63.08	3.370	
9,100.00	9,097.67	9,099.72	9,095.75	31.69	31.80	173.63	-36.46	-150.64	214.08	150.65	63.43	3.375	
9,150.00	9,147.65	9,147.14	9,143.16	31.87	31.97	170.03	-37.05	-151.43	216.06	152.29	63.76	3.388	
9,200.00	9,197.63	9,194.35	9,190.35	32.05	32.14	166.73	-36.86	-152.69	218.73	154.64	64.09	3.413	
9,250.00	9,247.61	9,243.05	9,239.01	32.23	32.31	178.40	-36.00	-154.40	221.88	157.45	64.43	3.444	
9,300.00	9,297.60	9,292.67	9,288.59	32.40	32.49	-169.15	-34.96	-156.23	225.01	160.23	64.78	3.474	
9,350.00	9,347.59	9,343.41	9,339.29	32.58	32.67	-162.90	-34.01	-158.07	228.11	162.97	65.14	3.502	
9,400.00	9,397.57	9,394.52	9,390.37	32.76	32.85	-159.81	-33.64	-159.76	231.03	165.52	65.51	3.527	
9,450.00	9,447.55	9,444.57	9,440.39	32.93	33.03	-159.99	-33.85	-161.35	233.97	168.11	65.86	3.552	
9,500.00	9,497.52	9,494.57	9,490.36	33.11	33.21	-156.85	-34.61	-163.00	236.97	170.75	66.22	3.579	
9,550.00	9,547.50	9,544.44	9,540.19	33.29	33.39	-149.39	-35.46	-164.64	239.68	173.11	66.57	3.600	
9,600.00	9,597.49	9,594.46	9,590.18	33.46	33.57	-151.45	-36.11	-166.27	242.14	175.22	66.93	3.618	
9,650.00	9,647.48	9,644.77	9,640.47	33.64	33.75	-158.26	-36.40	-167.80	244.47	177.19	67.28	3.633	
9,700.00	9,697.47	9,695.48	9,691.16	33.81	33.93	-170.44	-36.39	-169.20	246.70	179.05	67.65	3.647	
9,750.00	9,747.47	9,746.62	9,742.28	33.99	34.11	179.81	-36.83	-170.45	248.79	180.78	68.01	3.658	
9,800.00	9,797.46	9,797.92	9,793.56	34.17	34.30	177.46	-37.65	-171.49	250.63	182.25	68.38	3.665	
9,850.00	9,847.45	9,849.31	9,844.94	34.35	34.48	173.09	-38.25	-172.22	252.14	183.40	68.74	3.668	
9,900.00	9,897.44	9,901.16	9,896.79	34.53	34.66	164.42	-38.59	-172.59	253.27	184.17	69.10	3.665	
9,950.00	9,947.44	9,952.76	9,948.40	34.70	34.84	155.20	-38.68	-172.54	253.94	184.49	69.45	3.656	
10,000.00	9,997.43	10,002.97	9,998.60	34.88	35.00	143.75	-38.71	-172.32	254.30	184.50	69.80	3.643	
10,050.00	10,047.43	10,052.34	10,047.97	35.06	35.14	135.52	-38.86	-172.23	254.62	184.50	70.11	3.631	
10,100.00	10,097.43	10,095.77	10,091.39	35.24	35.20	124.83	-39.49	-172.38	255.06	184.73	70.33	3.627	
10,150.00	10,147.43	10,132.88	10,128.45	35.42	35.27	156.29	-38.99	-174.30	257.97	187.60	70.37	3.666	
10,200.00	10,197.42	10,177.17	10,172.45	35.60	35.44	170.49	-35.34	-177.54	262.78	192.33	70.45	3.730	
10,250.00	10,247.41	10,215.00	10,209.62	35.77	35.55	171.05	-29.14	-180.83	269.29	198.97	70.32	3.830	
10,300.00	10,297.40	10,250.27	10,243.68	35.95	35.64	171.58	-21.09	-185.06	278.50	208.50	70.00	3.978	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,878.24	2,877.46	2,875.36	2,874.78	9.77	9.74	-36.18	1.36	64.50	77.91	58.42	19.49	3.998	CC
2,900.00	2,899.21	2,897.01	2,896.42	9.84	9.82	-38.76	1.45	65.26	77.95	58.32	19.64	3.970	ES
2,950.00	2,949.18	2,946.78	2,946.15	10.02	9.99	-46.40	1.58	67.11	78.50	58.51	19.98	3.928	
3,000.00	2,999.15	2,996.65	2,995.98	10.19	10.17	-56.96	1.44	69.09	79.51	59.18	20.33	3.911	
3,050.00	3,049.13	3,046.47	3,045.75	10.36	10.34	-65.80	0.95	71.17	80.92	60.25	20.68	3.914	
3,100.00	3,099.11	3,096.16	3,095.39	10.53	10.52	-67.08	0.34	73.41	82.54	61.52	21.02	3.926	
3,150.00	3,149.09	3,146.01	3,145.18	10.71	10.70	-76.15	-0.34	75.81	84.33	62.95	21.37	3.946	
3,200.00	3,199.08	3,196.01	3,195.12	10.88	10.87	-119.52	-1.06	78.21	86.81	65.09	21.73	3.996	
3,500.00	3,498.95	3,498.29	3,497.14	11.93	11.95	-45.07	-5.63	89.44	95.33	71.47	23.86	3.995	
3,550.00	3,548.93	3,548.10	3,546.93	12.11	12.12	-36.55	-6.39	90.55	95.38	71.16	24.21	3.939	
3,600.00	3,598.91	3,598.00	3,596.81	12.28	12.30	-29.91	-7.11	91.75	95.43	70.87	24.56	3.885	
3,650.00	3,648.90	3,647.99	3,646.78	12.45	12.48	-25.95	-7.95	92.97	95.42	70.50	24.91	3.830	
3,700.00	3,698.88	3,698.05	3,696.81	12.63	12.66	-26.08	-8.89	94.21	95.34	70.08	25.27	3.774	
3,750.00	3,748.86	3,748.14	3,746.88	12.80	12.83	-28.29	-9.84	95.40	95.24	69.63	25.62	3.718	
3,768.66	3,767.52	3,766.80	3,765.54	12.86	12.90	-28.56	-10.18	95.83	95.22	69.47	25.75	3.698	
3,800.00	3,798.85	3,798.13	3,796.85	12.97	13.01	-29.21	-10.76	96.56	95.26	69.30	25.97	3.669	
3,850.00	3,848.84	3,848.09	3,846.79	13.15	13.19	-30.60	-11.68	97.72	95.65	69.33	26.32	3.634	
3,900.00	3,898.84	3,897.84	3,896.51	13.32	13.37	-25.06	-12.53	98.96	96.30	69.63	26.67	3.611	
3,950.00	3,948.84	3,947.67	3,946.32	13.50	13.54	-20.07	-13.29	100.30	97.14	70.12	27.02	3.595	
4,000.00	3,998.84	3,997.84	3,996.47	13.67	13.72	-24.05	-14.07	101.63	97.99	70.62	27.37	3.580	
4,050.00	4,048.84	4,047.94	4,046.54	13.84	13.90	-25.08	-14.88	102.88	98.77	71.04	27.72	3.562	
4,100.00	4,098.83	4,097.91	4,096.50	14.02	14.08	-21.34	-15.64	104.11	99.53	71.46	28.08	3.545	
4,150.00	4,148.83	4,147.80	4,146.37	14.19	14.26	-20.18	-16.32	105.34	100.31	71.88	28.43	3.529	
4,200.00	4,198.83	4,197.61	4,196.16	14.37	14.44	-20.84	-17.02	106.66	101.13	72.35	28.78	3.514	
4,250.00	4,248.83	4,247.62	4,246.14	14.54	14.61	-24.46	-17.74	108.03	101.98	72.85	29.13	3.501	
4,300.00	4,298.82	4,297.71	4,296.20	14.72	14.79	-29.22	-18.46	109.37	102.81	73.32	29.49	3.487	
4,350.00	4,348.82	4,347.55	4,346.02	14.89	14.97	-26.42	-19.13	110.70	103.65	73.82	29.84	3.474	
4,400.00	4,398.82	4,397.36	4,395.81	15.07	15.15	-23.20	-19.74	112.12	104.58	74.39	30.19	3.464	
4,450.00	4,448.82	4,447.25	4,445.67	15.25	15.33	-21.62	-20.33	113.60	105.61	75.07	30.54	3.458	
4,500.00	4,498.81	4,497.12	4,495.52	15.42	15.51	-16.01	-20.93	115.13	106.78	75.88	30.89	3.456	
4,550.00	4,548.81	4,546.96	4,545.33	15.60	15.69	-2.10	-21.61	116.73	108.02	76.77	31.24	3.457	
4,600.00	4,598.81	4,596.80	4,595.13	15.77	15.86	0.87	-22.36	118.38	109.31	77.72	31.60	3.460	
4,650.00	4,648.81	4,646.64	4,644.94	15.95	16.04	-4.85	-23.10	120.10	110.63	78.69	31.95	3.463	
4,700.00	4,698.81	4,696.56	4,694.82	16.12	16.22	-10.72	-23.82	121.88	111.99	79.69	32.30	3.467	
4,750.00	4,748.81	4,746.52	4,744.74	16.30	16.40	-18.63	-24.51	123.66	113.41	80.76	32.65	3.473	
4,800.00	4,798.81	4,796.55	4,794.74	16.47	16.58	-14.30	-25.18	125.44	114.85	81.84	33.01	3.479	
4,850.00	4,848.80	4,846.60	4,844.75	16.65	16.76	-10.32	-25.79	127.20	116.20	82.83	33.36	3.483	
4,900.00	4,898.80	4,896.44	4,894.56	16.82	16.94	-17.51	-26.44	128.96	117.55	83.84	33.72	3.487	
4,950.00	4,948.80	4,946.28	4,944.36	17.00	17.12	-24.00	-27.21	130.78	118.98	84.92	34.07	3.493	
5,000.00	4,998.80	4,996.14	4,994.18	17.18	17.30	-28.78	-28.02	132.64	120.48	86.06	34.42	3.500	
5,050.00	5,048.80	5,045.98	5,043.97	17.35	17.48	-30.91	-28.84	134.56	122.05	87.27	34.77	3.510	
5,100.00	5,098.79	5,095.77	5,093.72	17.53	17.66	-30.05	-29.61	136.54	123.65	88.52	35.13	3.520	
5,150.00	5,148.79	5,145.71	5,143.61	17.71	17.84	-26.23	-30.35	138.59	125.26	89.78	35.48	3.530	
5,200.00	5,198.79	5,195.77	5,193.62	17.88	18.02	-21.18	-31.16	140.61	126.78	90.95	35.84	3.538	
5,250.00	5,248.78	5,245.68	5,243.48	18.06	18.20	-17.94	-32.04	142.61	128.26	92.06	36.19	3.544	
5,300.00	5,298.78	5,295.53	5,293.28	18.24	18.38	-15.08	-32.94	144.66	129.76	93.22	36.55	3.551	
5,350.00	5,348.78	5,346.76	5,344.47	18.41	18.57	-17.84	-33.73	146.57	131.06	94.15	36.92	3.550	
5,400.00	5,398.77	5,396.04	5,393.73	18.59	18.75	-20.39	-34.22	147.96	131.80	94.52	37.28	3.535	
5,450.00	5,448.77	5,446.65	5,444.33	18.77	18.93	-22.04	-34.52	149.00	132.22	94.58	37.64	3.513	
5,500.00	5,498.76	5,496.04	5,493.72	18.95	19.11	-24.50	-34.73	149.82	132.47	94.47	38.00	3.486	
5,550.00	5,548.76	5,546.02	5,543.69	19.12	19.29	-28.47	-34.87	150.59	132.74	94.38	38.36	3.461	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,600.00	5,598.76	5,599.21	5,596.87	19.30	19.47	-33.72	-34.96	151.35	133.06	94.35	38.71	3.437	
5,650.00	5,648.76	5,649.60	5,647.26	19.48	19.65	-42.04	-35.01	151.99	133.36	94.29	39.07	3.413	
5,700.00	5,698.75	5,699.15	5,696.80	19.65	19.83	-27.31	-35.04	152.59	133.65	94.23	39.42	3.390	
5,750.00	5,748.75	5,748.40	5,746.04	19.83	20.00	-14.04	-35.03	153.45	133.99	94.22	39.77	3.369	
5,800.00	5,798.75	5,797.99	5,795.62	20.01	20.18	-10.65	-34.97	154.54	134.39	94.26	40.13	3.349	
5,850.00	5,848.74	5,847.64	5,845.26	20.19	20.36	-8.42	-34.84	155.76	134.86	94.39	40.48	3.332	
5,900.00	5,898.73	5,897.81	5,895.41	20.36	20.54	-6.03	-34.65	157.03	135.32	94.48	40.83	3.314	
5,950.00	5,948.73	5,947.77	5,945.35	20.54	20.72	-4.53	-34.41	158.25	135.67	94.48	41.19	3.294	
6,000.00	5,998.72	5,997.08	5,994.65	20.72	20.89	-4.72	-34.20	159.61	136.24	94.70	41.54	3.280	
6,050.00	6,048.72	6,046.61	6,044.15	20.89	21.07	-7.29	-34.05	161.20	137.13	95.24	41.89	3.274	
6,100.00	6,098.71	6,096.46	6,093.98	21.07	21.25	-12.69	-33.91	162.89	138.09	95.85	42.24	3.269	
6,150.00	6,148.70	6,146.16	6,143.64	21.25	21.43	-16.36	-33.78	164.64	139.09	96.50	42.59	3.265	
6,200.00	6,198.70	6,195.74	6,193.18	21.43	21.61	-19.19	-33.69	166.52	140.24	97.29	42.95	3.265	
6,250.00	6,248.69	6,246.03	6,243.43	21.60	21.79	-20.08	-33.65	168.48	141.44	98.14	43.31	3.266	
6,300.00	6,298.68	6,296.56	6,293.94	21.78	21.97	-20.57	-33.68	170.26	142.47	98.80	43.67	3.263	
6,350.00	6,348.68	6,346.45	6,343.80	21.96	22.15	-24.04	-33.77	171.93	143.40	99.38	44.02	3.257	
6,400.00	6,398.67	6,396.31	6,393.62	22.14	22.33	-27.45	-33.88	173.65	144.35	99.97	44.38	3.253	
6,450.00	6,448.66	6,446.16	6,443.44	22.31	22.51	-32.42	-34.01	175.42	145.37	100.64	44.73	3.250	
6,500.00	6,498.66	6,496.11	6,493.37	22.49	22.69	-36.87	-34.17	177.23	146.47	101.38	45.09	3.248	
6,550.00	6,548.65	6,546.29	6,543.51	22.67	22.87	-40.23	-34.43	179.00	147.53	102.08	45.45	3.246	
6,600.00	6,598.64	6,596.45	6,593.64	22.85	23.05	-42.16	-34.80	180.71	148.52	102.71	45.81	3.242	
6,650.00	6,648.63	6,646.60	6,643.76	23.03	23.23	-43.24	-35.19	182.37	149.47	103.30	46.17	3.238	
6,700.00	6,698.62	6,696.72	6,693.86	23.21	23.41	-44.96	-35.58	183.98	150.38	103.85	46.53	3.232	
6,750.00	6,748.61	6,746.83	6,743.94	23.38	23.59	-46.79	-35.94	185.54	151.23	104.35	46.89	3.226	
6,800.00	6,798.60	6,796.65	6,793.73	23.56	23.77	-49.71	-36.30	187.10	152.11	104.87	47.24	3.220	
6,850.00	6,848.59	6,846.40	6,843.46	23.74	23.95	-52.89	-36.73	188.73	153.13	105.54	47.60	3.217	
6,900.00	6,898.58	6,896.15	6,893.17	23.92	24.13	-54.88	-37.25	190.44	154.25	106.30	47.95	3.217	
6,950.00	6,948.57	6,946.02	6,943.01	24.10	24.31	-55.27	-37.83	192.22	155.41	107.10	48.31	3.217	
7,000.00	6,998.55	6,996.52	6,993.47	24.28	24.50	-52.54	-38.46	193.95	156.40	107.73	48.67	3.213	
7,050.00	7,048.54	7,046.96	7,043.89	24.46	24.68	-50.77	-39.11	195.52	157.14	108.11	49.03	3.205	
7,100.00	7,098.52	7,097.30	7,094.20	24.63	24.86	-49.70	-39.78	196.96	157.73	108.34	49.39	3.193	
7,150.00	7,148.50	7,147.65	7,144.53	24.81	25.04	-51.04	-40.48	198.29	158.19	108.43	49.75	3.179	
7,200.00	7,198.48	7,197.93	7,194.79	24.99	25.22	-53.71	-41.20	199.51	158.53	108.41	50.11	3.163	
7,250.00	7,248.46	7,248.07	7,244.91	25.17	25.40	-53.99	-41.92	200.67	158.80	108.32	50.47	3.146	
7,300.00	7,298.44	7,298.37	7,295.19	25.35	25.58	-53.73	-42.62	201.77	159.00	108.17	50.83	3.128	
7,350.00	7,348.42	7,348.82	7,345.63	25.53	25.76	-48.68	-43.35	202.74	159.06	107.86	51.19	3.107	
7,400.00	7,398.40	7,399.42	7,396.21	25.71	25.94	-42.89	-44.08	203.56	158.91	107.36	51.55	3.082	
7,450.00	7,448.38	7,450.08	7,446.87	25.89	26.12	-38.84	-44.68	204.17	158.43	106.52	51.91	3.052	
7,500.00	7,498.35	7,499.98	7,496.76	26.07	26.30	-35.57	-45.20	204.66	157.67	105.40	52.27	3.016	
7,550.00	7,548.32	7,549.70	7,546.48	26.24	26.48	-32.95	-45.73	205.21	156.76	104.14	52.63	2.979	
7,600.00	7,598.29	7,598.50	7,595.27	26.42	26.65	-31.92	-46.05	205.98	155.99	103.01	52.98	2.944	
7,650.00	7,648.27	7,649.29	7,646.05	26.60	26.83	-31.75	-46.03	207.11	155.89	102.57	53.33	2.923	
7,700.00	7,698.26	7,699.14	7,695.88	26.78	27.00	-39.86	-45.66	208.61	156.61	102.94	53.67	2.918 SF	
7,750.00	7,748.26	7,749.46	7,745.15	26.95	27.18	-128.15	-44.63	210.35	158.24	104.23	54.01	2.930	
7,800.00	7,798.25	7,799.17	7,795.19	27.13	27.35	-177.46	-42.76	212.25	160.72	106.36	54.36	2.957	
7,850.00	7,848.24	7,849.11	7,845.66	27.30	27.53	174.98	-40.71	214.00	163.63	108.91	54.72	2.990	
7,900.00	7,898.22	7,899.07	7,895.56	27.47	27.71	170.76	-38.83	215.43	166.64	111.56	55.07	3.026	
7,950.00	7,948.19	7,949.04	7,944.50	27.63	27.89	170.43	-37.37	216.56	169.60	114.17	55.43	3.060	
8,000.00	7,998.16	7,999.57	7,994.01	27.80	28.06	178.48	-36.37	217.55	172.42	116.65	55.77	3.092	
8,050.00	8,048.13	8,049.52	8,044.93	27.97	28.24	-170.99	-35.67	218.80	175.41	119.30	56.11	3.126	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,100.00	8,098.11	8,092.64	8,089.02	28.14	28.40	-156.64	-35.22	220.56	178.83	122.42	56.41	3.170	
8,150.00	8,148.09	8,138.11	8,134.39	28.32	28.57	-145.36	-34.92	223.40	183.22	126.55	56.68	3.233	
8,200.00	8,198.07	8,187.50	8,183.64	28.49	28.75	-134.41	-34.83	227.23	188.09	131.07	57.02	3.299	
8,250.00	8,248.06	8,237.72	8,233.71	28.67	28.93	-119.60	-35.07	231.09	192.56	135.18	57.38	3.356	
8,300.00	8,298.05	8,288.94	8,284.79	28.84	29.12	-90.84	-35.49	234.80	196.38	138.61	57.77	3.399	
8,350.00	8,348.04	8,339.65	8,335.40	29.02	29.30	-39.11	-35.92	238.14	199.28	141.14	58.14	3.428	
8,400.00	8,398.03	8,389.01	8,384.64	29.20	29.48	-22.60	-36.32	241.41	201.58	143.09	58.49	3.447	
8,450.00	8,448.02	8,438.90	8,434.41	29.37	29.67	-25.38	-36.71	244.83	203.75	144.91	58.84	3.463	
8,500.00	8,498.00	8,489.44	8,484.84	29.55	29.85	-31.17	-37.09	248.20	205.75	146.54	59.21	3.475	
8,550.00	8,547.98	8,540.23	8,535.53	29.73	30.04	-40.86	-37.49	251.42	207.79	148.21	59.58	3.487	
8,600.00	8,597.96	8,591.17	8,586.38	29.91	30.22	-49.88	-38.02	254.43	209.82	149.86	59.96	3.500	
8,650.00	8,647.95	8,641.90	8,637.03	30.09	30.41	-58.36	-38.53	257.21	211.78	151.45	60.33	3.511	
8,700.00	8,697.93	8,692.59	8,687.65	30.27	30.59	-53.82	-38.74	259.77	213.56	152.87	60.69	3.519	
8,750.00	8,747.91	8,743.10	8,738.10	30.45	30.78	-46.40	-38.90	262.17	215.01	153.95	61.06	3.521	
8,800.00	8,797.89	8,793.02	8,787.97	30.62	30.96	-22.02	-39.19	264.46	216.03	154.61	61.42	3.517	
8,850.00	8,847.86	8,841.47	8,836.35	30.80	31.14	-11.18	-39.54	266.91	216.86	155.11	61.75	3.512	
8,900.00	8,897.82	8,892.18	8,886.98	30.98	31.32	-19.45	-40.01	269.75	217.55	155.43	62.12	3.502	
8,950.00	8,947.75	8,946.13	8,940.88	31.16	31.52	-23.14	-40.93	272.07	217.28	154.76	62.52	3.475	
9,000.00	8,997.71	8,997.70	8,992.41	31.34	31.70	-25.15	-42.19	273.60	216.70	153.82	62.89	3.446	
9,050.00	9,047.68	9,048.45	9,043.12	31.51	31.88	-24.23	-43.53	274.91	216.37	153.12	63.25	3.421	
9,100.00	9,097.67	9,100.95	9,095.58	31.69	32.07	-20.59	-45.22	275.91	215.89	152.28	63.61	3.394	
9,150.00	9,147.65	9,152.87	9,147.46	31.87	32.25	-23.58	-47.39	276.34	214.92	150.95	63.97	3.360	
9,200.00	9,197.63	9,202.40	9,196.94	32.05	32.42	-26.53	-49.52	276.64	213.80	149.49	64.32	3.324	
9,250.00	9,247.61	9,250.82	9,245.32	32.23	32.60	-14.68	-51.39	277.05	212.86	148.19	64.67	3.292	
9,289.07	9,286.67	9,287.25	9,281.74	32.37	32.72	-4.98	-52.35	277.75	212.61	147.68	64.93	3.274	
9,300.00	9,297.60	9,297.45	9,291.93	32.40	32.76	-2.13	-52.53	278.02	212.64	147.64	65.01	3.271	
9,350.00	9,347.59	9,346.41	9,340.86	32.58	32.94	4.17	-52.99	279.64	213.05	147.70	65.35	3.260	
9,400.00	9,397.57	9,398.39	9,392.81	32.76	33.12	7.60	-53.72	281.09	213.10	147.38	65.72	3.243	
9,450.00	9,447.55	9,447.82	9,442.22	32.93	33.30	7.97	-54.60	282.23	212.72	146.65	66.07	3.220	
9,486.29	9,483.82	9,482.85	9,477.23	33.06	33.43	10.61	-54.89	283.23	212.63	146.31	66.32	3.206	
9,500.00	9,497.52	9,496.08	9,490.46	33.11	33.47	11.65	-54.92	283.66	212.61	146.20	66.41	3.201	
9,550.00	9,547.50	9,546.77	9,541.12	33.29	33.58	19.64	-54.95	285.32	212.96	146.27	66.70	3.193	
9,600.00	9,597.49	9,598.08	9,592.41	33.46	33.68	18.17	-55.41	286.73	213.28	146.31	66.97	3.185	
9,650.00	9,647.48	9,647.39	9,641.71	33.64	33.68	11.77	-55.79	288.01	213.65	146.51	67.14	3.182	
9,700.00	9,697.47	9,697.26	9,691.55	33.81	33.69	-0.29	-55.69	289.42	214.18	146.86	67.32	3.181	
9,750.00	9,747.47	9,749.16	9,743.44	33.99	33.70	-9.88	-55.73	290.63	214.42	146.91	67.51	3.176	
9,800.00	9,797.46	9,800.32	9,794.59	34.17	33.70	-11.95	-56.13	291.42	214.26	146.57	67.69	3.165	
9,850.00	9,847.45	9,850.56	9,844.83	34.35	33.71	-16.18	-56.27	292.08	214.05	146.17	67.88	3.154	
9,900.00	9,897.44	9,901.01	9,895.27	34.53	33.72	-24.92	-56.10	292.64	213.84	145.78	68.06	3.142	
9,950.00	9,947.44	9,951.56	9,945.82	34.70	33.73	-34.35	-55.85	293.08	213.62	145.36	68.25	3.130	
9,990.28	9,987.72	9,991.46	9,985.71	34.85	33.73	-43.56	-55.51	293.36	213.49	145.08	68.41	3.121	
10,000.00	9,997.43	10,000.93	9,995.18	34.88	33.74	-46.11	-55.34	293.45	213.50	145.05	68.45	3.119	
10,050.00	10,047.43	10,049.41	10,043.63	35.06	33.75	-54.89	-53.88	294.02	213.82	145.18	68.65	3.115	
10,100.00	10,097.43	10,096.95	10,091.07	35.24	33.78	-66.36	-50.95	294.94	214.80	145.97	68.84	3.120	
10,150.00	10,147.43	10,145.46	10,139.28	35.42	33.82	-36.45	-45.70	296.12	216.26	147.24	69.03	3.133	
10,200.00	10,197.42	10,193.58	10,186.95	35.60	33.84	-24.74	-39.29	297.23	217.66	148.45	69.21	3.145	
10,250.00	10,247.41	10,237.46	10,230.12	35.77	33.88	-27.44	-31.60	298.80	219.99	150.67	69.32	3.174	
10,300.00	10,297.40	10,280.63	10,272.03	35.95	33.94	-31.06	-21.47	300.87	223.74	154.38	69.36	3.226	
10,350.00	10,347.38	10,321.90	10,311.43	36.13	34.01	-36.40	-9.47	303.38	229.46	160.20	69.26	3.313	
10,400.00	10,397.37	10,361.00	10,347.92	36.31	34.07	-44.19	4.28	306.13	237.56	168.58	68.98	3.444	
10,450.00	10,447.35	10,398.40	10,381.85	36.49	34.14	-52.94	19.70	309.07	248.34	179.84	68.50	3.625	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,500.00	10,497.32	10,434.03	10,413.23	36.67	34.20	-59.31	36.30	312.14	262.10	194.27	67.83	3.864	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda South 25 State 107H,128H,167H, 908H - RS25-107H - RS25-107H - RS25-107 H AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 180-MWD, 9903-MWD+IFR1+MS, 18213-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,350.00	10,347.38	10,762.25	10,499.77	36.13	36.21	171.36	-50.94	-4.48	163.42	112.00	51.41	3.178	
10,400.00	10,397.37	10,771.73	10,501.13	36.31	36.23	161.29	-60.32	-4.30	125.76	69.24	56.52	2.225	
10,450.00	10,447.35	10,779.14	10,502.04	36.49	36.24	151.59	-67.67	-4.22	99.20	33.35	65.85	1.507	
10,485.67	10,483.00	10,783.50	10,502.52	36.62	36.25	146.82	-72.00	-4.19	92.66	20.70	71.96	1.288	Level 3, CC, ES, SF
10,500.00	10,497.32	10,785.07	10,502.68	36.67	36.25	145.03	-73.57	-4.19	93.76	21.87	71.89	1.304	Level 3
10,550.00	10,547.30	10,797.00	10,503.70	36.85	36.27	133.46	-85.45	-4.22	112.79	48.48	64.31	1.754	
10,600.00	10,597.28	10,797.00	10,503.70	37.03	36.27	128.76	-85.45	-4.22	146.48	89.08	57.40	2.552	
10,650.00	10,647.25	10,797.00	10,503.70	37.21	36.27	125.67	-85.45	-4.22	187.58	133.98	53.60	3.500	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda South 25 State 107H,128H,167H, 908H - RS25-128H - RS25-128H - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,550.00	10,547.30	11,069.85	10,724.44	36.85	39.02	-40.96	-71.32	193.41	190.58	138.31	52.27	3.646	
10,600.00	10,597.28	11,070.93	10,724.44	37.03	39.02	-45.05	-72.39	193.42	150.32	93.41	56.91	2.642	
10,650.00	10,647.25	11,072.13	10,724.44	37.21	39.03	-47.33	-73.59	193.44	117.76	52.74	65.02	1.811	
10,700.00	10,697.23	11,073.23	10,724.44	37.38	39.03	-12.11	-74.69	193.45	100.73	25.81	74.92	1.344	Level 3
10,711.19	10,708.42	11,073.19	10,724.44	37.42	39.03	55.72	-74.65	193.45	100.08	24.50	75.58	1.324	Level 3, CC, ES, SF
10,750.00	10,747.20	11,071.83	10,724.44	37.56	39.03	92.49	-73.29	193.43	107.58	37.31	70.27	1.531	
10,800.00	10,796.79	11,065.51	10,724.43	37.72	39.02	87.73	-66.97	193.34	134.60	73.70	60.89	2.210	
10,850.00	10,845.57	11,055.40	10,724.40	37.88	39.02	76.72	-56.87	193.18	171.68	116.25	55.43	3.097	

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

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

GAS CAPTURE PLAN

Date: 9/26/2019

☒ Original

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

☐ Amended - Reason for
Amendment: _____

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
REMUDA NORTH 25 STATE #908H	30-015-46301	I-25-23S-29E	2379S 0615E	2	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. XTO ENERGY, INC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO ENERGY, INC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 23S, Rng. 33E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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

Form APD Comments

Permit 272489

PERMIT COMMENTS

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46301
		Well: REMUDA NORTH 25 STATE #908H

Created By	Comment	Comment Date
------------	---------	--------------

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Phone:(575) 393-6161 Fax:(575) 393-0720
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 272489

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46301
		Well: REMUDA NORTH 25 STATE #908H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name REMUDA NORTH 25 STATE			⁶ Well Number 908H
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 3,076'

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
I	25	23 S	29 E		2,379	SOUTH	615	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	23 S	29 E		200	NORTH	735	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	SHL (NAD83 NME) Y = 464,048.3 X = 665,505.4 LAT. = 32.275104 °N LONG. = 103.931573 °W FTP (NAD83 NME) Y = 464,669.0 X = 665,383.0 LAT. = 32.276812 °N LONG. = 103.931962 °W CORNER COORDINATES (NAD83 NME) A - Y = 464,317.7 N , X = 666,119.3 E B - Y = 466,978.9 N , X = 666,109.3 E C - Y = 469,627.6 N , X = 666,087.4 E D - Y = 472,285.7 N , X = 666,068.1 E E - Y = 464,318.4 N , X = 664,794.2 E F - Y = 466,979.1 N , X = 664,786.8 E G - Y = 469,629.7 N , X = 664,763.7 E H - Y = 472,287.4 N , X = 664,742.0 E SHL (NAD27 NME) Y = 463,988.4 X = 624,322.6 LAT. = 32.274980 °N LONG. = 103.931082 °W FTP (NAD27 NME) Y = 464,609.1 X = 624,200.2 LAT. = 32.276688 °N LONG. = 103.931471 °W CORNER COORDINATES (NAD27 NME) A - Y = 464,257.8 N , X = 624,936.5 E B - Y = 466,918.9 N , X = 624,926.6 E C - Y = 469,567.6 N , X = 624,904.7 E D - Y = 472,225.6 N , X = 624,885.5 E E - Y = 464,258.5 N , X = 623,611.4 E F - Y = 466,919.1 N , X = 623,604.0 E G - Y = 469,569.7 N , X = 623,581.1 E H - Y = 472,227.3 N , X = 623,559.5 E	LTP (NAD83 NME) Y = 471,956.7 X = 665,335.5 LAT. = 32.296845 °N LONG. = 103.932028 °W BHL (NAD83 NME) Y = 472,086.7 X = 665,334.5 LAT. = 32.297202 °N LONG. = 103.932029 °W LTP (NAD27 NME) Y = 471,896.6 X = 624,152.9 LAT. = 32.296721 °N LONG. = 103.931535 °W BHL (NAD27 NME) Y = 472,026.6 X = 624,152.0 LAT. = 32.297078 °N LONG. = 103.931537 °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>Kelly Kardos</i> Signature _____ Date _____ Printed Name _____ E-mail Address _____
			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-13-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number LM/JC 2019082997

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

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 09/23/19

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

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

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

Well(s)/Production Facility – Remuda 500 CTB

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MMCF/D	Flared or Vented	Comments
Remuda North 25 State 908H		I-25-23S-29E	2379'FSL & 615'FEL	1.9 MMCF/D	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Lucid and will be connected to Lucid low/high pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO Energy, Inc. provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO Energy, Inc. and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Lucid's Red Hills Plant located in Sec.13, Twn.24S, Rng. 33E, Eddy County, New Mexico or Lucid's Roadrunner Plant located in Sec.32, Twn.23S, Rng. 28E, Eddy County, New Mexico The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

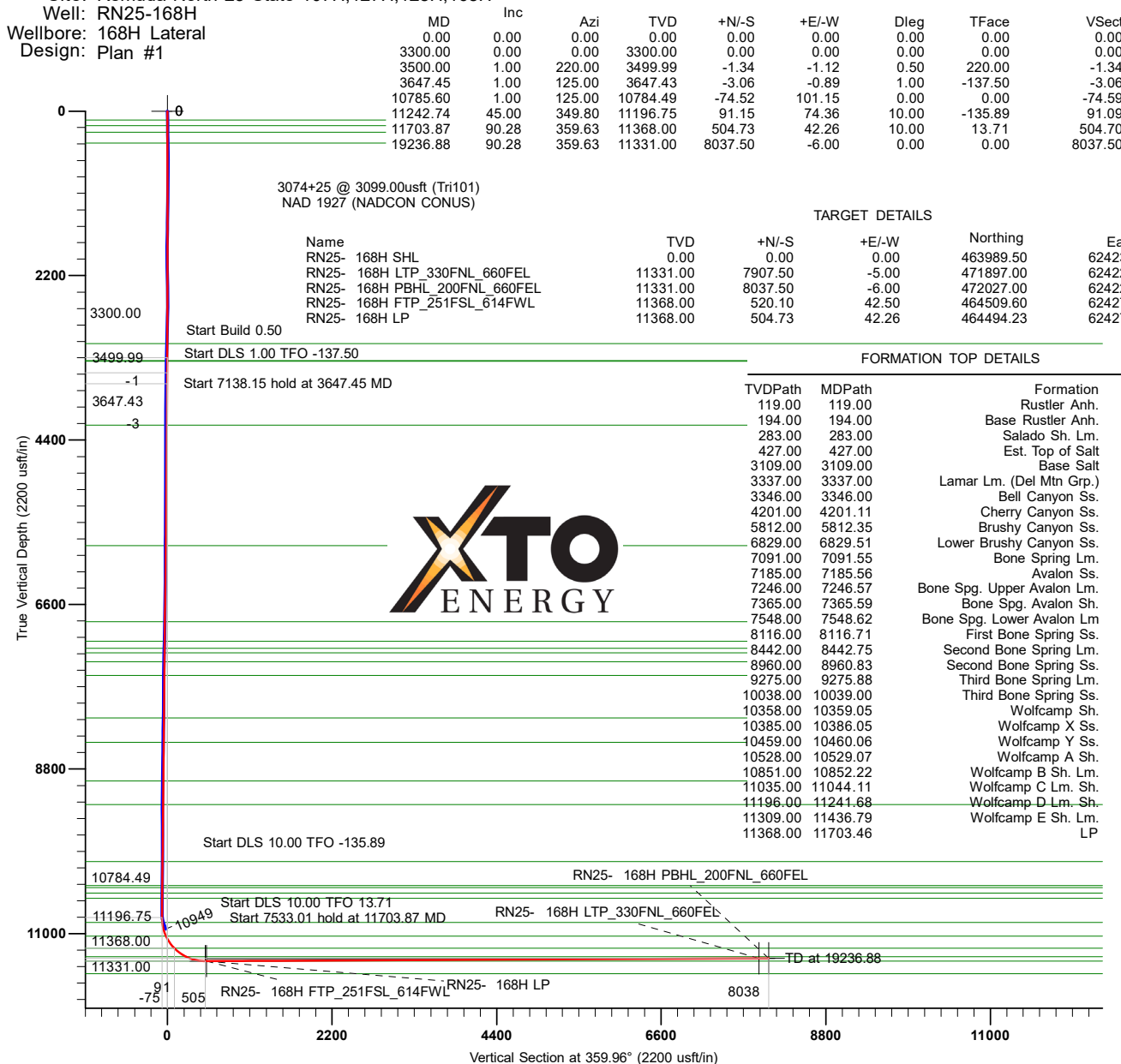
Alternatives to Reduce Flaring

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

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

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Remuda North 25 State 107H,127H,128H,168H
 Well: RN25-168H
 Wellbore: 168H Lateral
 Design: Plan #1



SECTION DETAILS

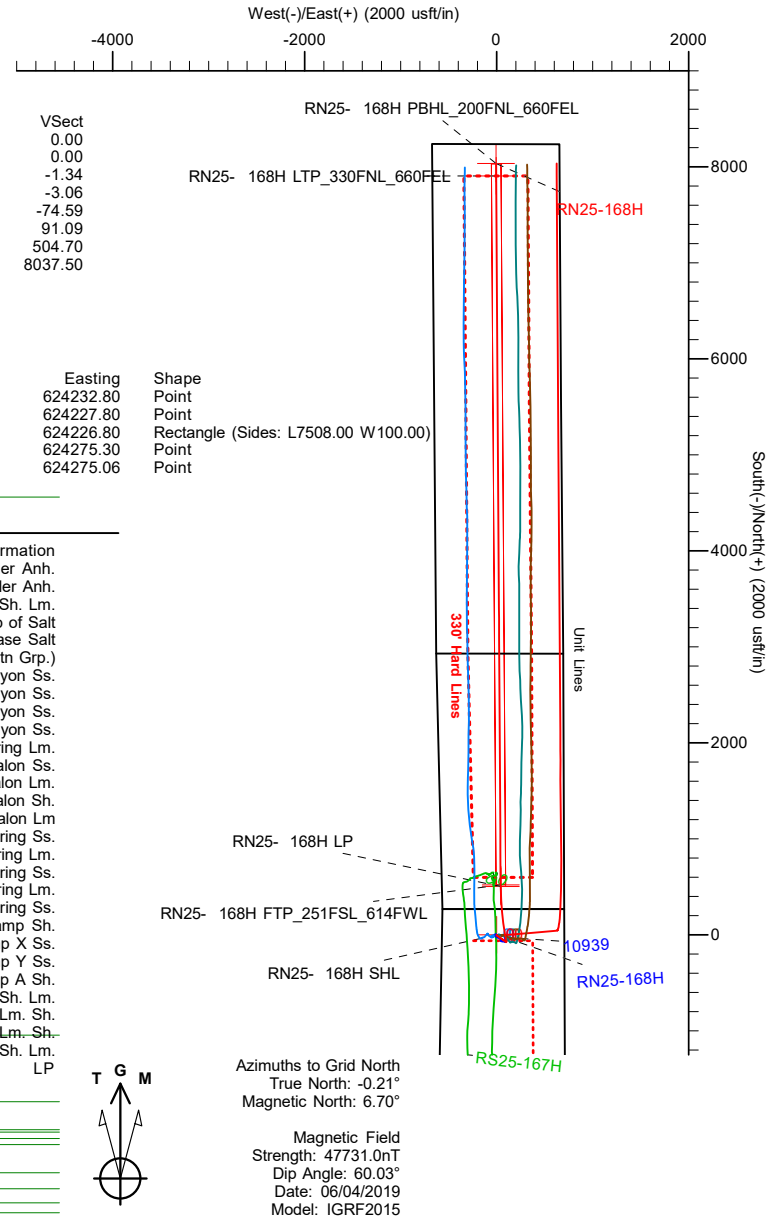
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00
3500.00	1.00	220.00	3499.99	-1.34	-1.12	0.50	220.00	-1.34
3647.45	1.00	125.00	3647.43	-3.06	-0.89	1.00	-137.50	-3.06
10785.60	1.00	125.00	10784.49	-74.52	101.15	0.00	0.00	-74.59
11242.74	45.00	349.80	11196.75	91.15	74.36	10.00	-135.89	91.09
11703.87	90.28	359.63	11368.00	504.73	42.26	10.00	13.71	504.70
19236.88	90.28	359.63	11331.00	8037.50	-6.00	0.00	0.00	8037.50

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
RN25- 168H SHL	0.00	0.00	0.00	463989.50	624232.80	Point
RN25- 168H LTP_330FNL_660FEL	11331.00	7907.50	-5.00	471897.00	624227.80	Point
RN25- 168H PBHL_200FNL_660FEL	11331.00	8037.50	-6.00	472027.00	624226.80	Rectangle (Sides: L7508.00 W100.00)
RN25- 168H FTP_251FSL_614FWL	11368.00	520.10	42.50	464509.60	624275.30	Point
RN25- 168H LP	11368.00	504.73	42.26	464494.23	624275.06	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
119.00	119.00	Rustler Anh.
194.00	194.00	Base Rustler Anh.
283.00	283.00	Salado Sh. Lm.
427.00	427.00	Est. Top of Salt
3109.00	3109.00	Base Salt
3337.00	3337.00	Lamar Lm. (Del Mtn Grp.)
3346.00	3346.00	Bell Canyon Ss.
4201.00	4201.11	Cherry Canyon Ss.
5812.00	5812.35	Brushy Canyon Ss.
6829.00	6829.51	Lower Brushy Canyon Ss.
7091.00	7091.55	Bone Spring Lm.
7185.00	7185.56	Avalon Ss.
7246.00	7246.57	Bone Spg. Upper Avalon Lm.
7365.00	7365.59	Bone Spg. Avalon Sh.
7548.00	7548.62	Bone Spg. Lower Avalon Lm.
8116.00	8116.71	First Bone Spring Ss.
8442.00	8442.75	Second Bone Spring Lm.
8960.00	8960.83	Second Bone Spring Ss.
9275.00	9275.88	Third Bone Spring Lm.
10038.00	10039.00	Third Bone Spring Ss.
10358.00	10359.05	Wolfcamp Sh.
10385.00	10386.05	Wolfcamp X Ss.
10459.00	10460.06	Wolfcamp Y Ss.
10528.00	10529.07	Wolfcamp A Sh.
10851.00	10852.22	Wolfcamp B Sh. Lm.
11035.00	11044.11	Wolfcamp C Lm. Sh.
11196.00	11241.68	Wolfcamp D Lm. Sh.
11309.00	11436.79	Wolfcamp E Sh. Lm.
11368.00	11703.46	LP



Azimuths to Grid North
 True North: -0.21°
 Magnetic North: 6.70°
 Magnetic Field
 Strength: 47731.0nT
 Dip Angle: 60.03°
 Date: 06/04/2019
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.70°
 To convert a Magnetic Direction to a True Direction, Add 6.91° East
 Magnetic North is 6.70° East of Grid North (Magnetic Convergence)
 Magnetic North is 6.91° East of True North (Magnetic Declination)

Plan: Plan #1 (RN25-168H/168H Lateral)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 8:01, September 23 2019

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



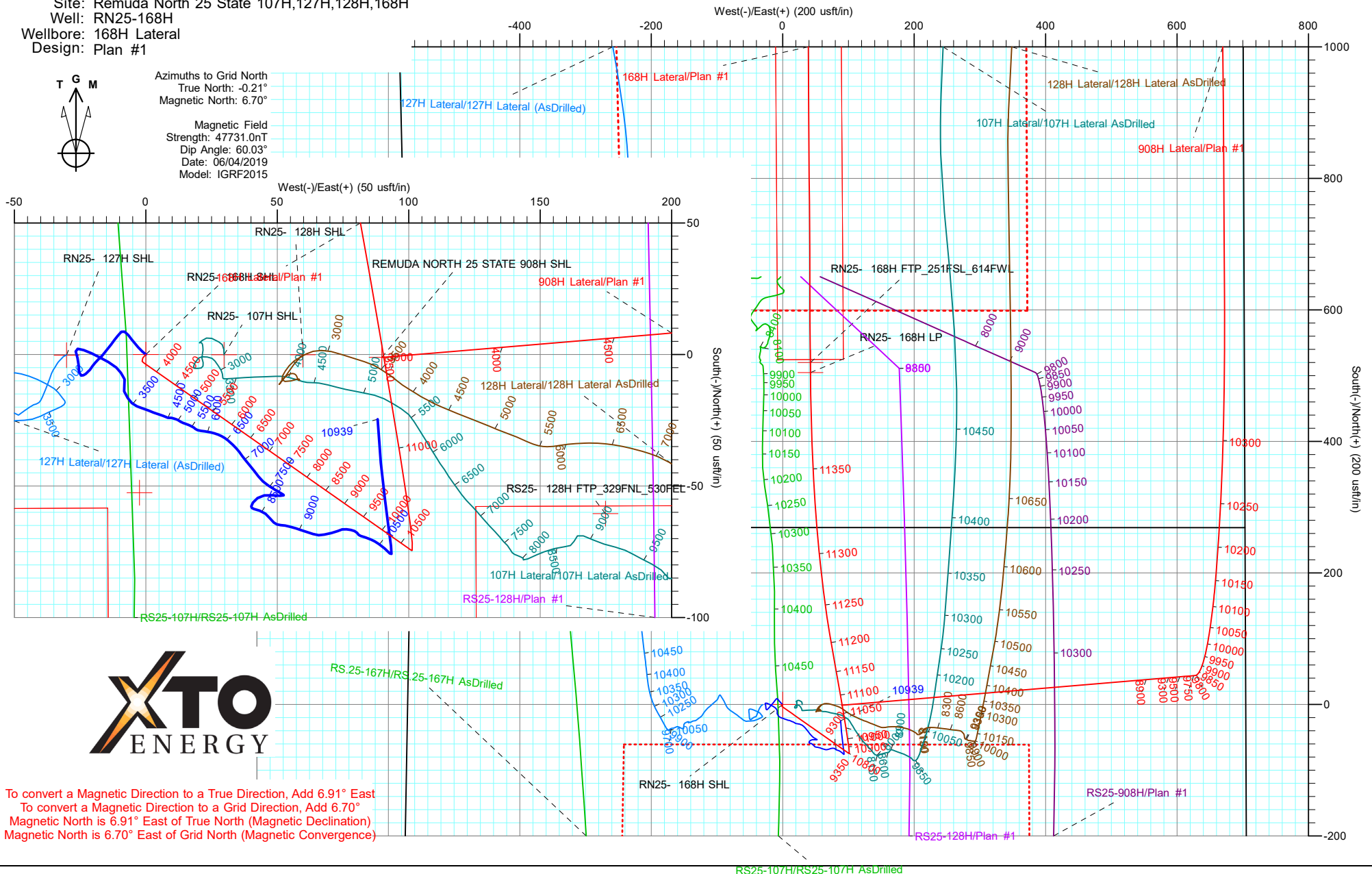
XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Remuda North 25 State 107H,127H,128H,168H
 Well: RN25-168H
 Wellbore: 168H Lateral
 Design: Plan #1



Azimuths to Grid North
 True North: -0.21°
 Magnetic North: 6.70°

Magnetic Field
 Strength: 47731.0nT
 Dip Angle: 60.03°
 Date: 06/04/2019
 Model: IGRF2015



Survey Report Landscape

Company:	XTO Energy				Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL	
Project:	Eddy County, NM (NAD27) NMEZ Grid				TVD Reference:	3074+25 @ 3099.00usft (Tri101)	
Site:	Remuda North 25 State 107H,127H,128H,168H				MD Reference:	3074+25 @ 3099.00usft (Tri101)	
Well:	RN25-168H				North Reference:	Grid	
Wellbore:	168H Lateral				Survey Calculation Method:	Minimum Curvature	
Design:	168H Lateral 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	Remuda North 25 State 107H,127H,128H,168H						
Site Position:			Northing:	464,640.10 usft	Latitude:	32° 16' 36.38172028 N	
From:	Map		Easting:	624,230.00 usft	Longitude:	103° 55' 52.94589453 W	
Position Uncertainty:	0.00 usft		Slot Radius:	13.20 in	Grid Convergence:	0.21 °	

Well	RN25-168H - Slot RN25- 168H SHL						
Well Position	+N/-S	0.00 usft	Northing:	463,989.50 usft	Latitude:	32° 16' 29.94324195 N	
	+E/-W	0.00 usft	Easting:	624,232.80 usft	Longitude:	103° 55' 52.94167058 W	
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,074.00 usft	

Wellbore	168H Lateral						
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		
	IGRF2015	06/04/19	6.91	60.03	47,731.01794855		

Design	168H Lateral 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	105.59			

Survey Program	Date	09/23/19				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
157.00	10,949.00	Survey #1 (168H Lateral)	MWD	OWSG MWD - Standard		

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	463,989.50	624,232.80
RN25- 168H SHL										
157.00	0.40	315.50	157.00	0.39	-0.38	0.55	315.50	0.25	463,989.89	624,232.42
248.00	0.70	303.70	247.99	0.93	-1.07	1.41	310.89	0.35	463,990.43	624,231.73
317.00	1.30	317.50	316.98	1.74	-1.95	2.61	311.71	0.93	463,991.24	624,230.85
370.00	1.10	321.70	369.97	2.58	-2.67	3.71	314.01	0.41	463,992.08	624,230.13
460.00	1.20	316.60	459.95	3.94	-3.85	5.51	315.65	0.16	463,993.44	624,228.95
552.00	1.40	322.10	551.93	5.53	-5.21	7.59	316.73	0.26	463,995.03	624,227.59
644.00	1.50	321.70	643.90	7.36	-6.64	9.91	317.94	0.11	463,996.86	624,226.16
734.00	1.00	301.80	733.88	8.70	-8.04	11.85	317.26	0.73	463,998.20	624,224.76
826.00	0.90	227.20	825.87	8.63	-9.25	12.65	313.01	1.25	463,998.13	624,223.55
943.00	1.10	219.00	942.85	7.13	-10.63	12.80	303.86	0.21	463,996.63	624,222.17
1,035.00	1.30	216.60	1,034.83	5.61	-11.81	13.08	295.41	0.22	463,995.11	624,220.99
1,126.00	1.50	217.90	1,125.80	3.84	-13.16	13.71	286.27	0.22	463,993.34	624,219.64
1,216.00	1.70	219.30	1,215.77	1.88	-14.73	14.85	277.27	0.23	463,991.38	624,218.07
1,308.00	0.90	216.10	1,307.75	0.24	-16.02	16.02	270.85	0.87	463,989.74	624,216.78
1,400.00	0.30	232.00	1,399.74	-0.49	-16.63	16.64	268.30	0.67	463,989.01	624,216.17
1,491.00	0.70	227.20	1,490.74	-1.02	-17.23	17.26	266.62	0.44	463,988.48	624,215.57
1,582.00	0.90	221.60	1,581.73	-1.93	-18.11	18.21	263.92	0.24	463,987.57	624,214.69
1,673.00	1.30	224.40	1,672.71	-3.20	-19.31	19.57	260.58	0.44	463,986.30	624,213.49
1,763.00	0.70	208.70	1,762.70	-4.41	-20.29	20.76	257.73	0.73	463,985.09	624,212.51
1,853.00	1.40	217.80	1,852.68	-5.76	-21.22	21.99	254.81	0.80	463,983.74	624,211.58
1,944.00	1.50	232.10	1,943.65	-7.37	-22.85	24.01	252.11	0.41	463,982.13	624,209.95
2,035.00	1.00	280.30	2,034.63	-7.96	-24.57	25.82	252.04	1.23	463,981.54	624,208.23
2,126.00	1.60	359.10	2,125.61	-6.55	-25.37	26.20	255.52	1.88	463,982.95	624,207.43
2,218.00	1.60	354.30	2,217.58	-3.99	-25.52	25.83	261.11	0.15	463,985.51	624,207.28
2,309.00	1.80	346.10	2,308.54	-1.34	-25.98	26.02	267.05	0.35	463,988.16	624,206.82

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)	
2,399.00	1.50	345.80	2,398.50	1.18	-26.61	26.64	272.53	0.33	463,990.68	624,206.19	
2,489.00	1.30	96.80	2,488.49	2.20	-25.89	25.98	274.85	2.57	463,991.70	624,206.91	
2,580.00	1.70	107.60	2,579.46	1.67	-23.58	23.64	274.04	0.54	463,991.17	624,209.22	
2,670.00	2.20	114.80	2,669.40	0.54	-20.74	20.74	271.49	0.62	463,990.04	624,212.06	
2,761.00	2.20	117.70	2,760.34	-1.01	-17.60	17.63	266.73	0.12	463,988.49	624,215.20	
2,851.00	2.70	120.30	2,850.25	-2.88	-14.24	14.53	258.58	0.57	463,986.62	624,218.56	
2,942.00	1.90	130.20	2,941.18	-4.93	-11.24	12.28	246.31	0.98	463,984.57	624,221.56	
3,033.00	1.50	149.60	3,032.14	-6.93	-9.49	11.75	233.83	0.76	463,982.57	624,223.31	
3,124.00	1.70	151.40	3,123.10	-9.15	-8.24	12.31	222.01	0.23	463,980.35	624,224.56	
3,139.00	1.70	151.40	3,138.10	-9.54	-8.02	12.46	220.08	0.00	463,979.96	624,224.78	
3,214.00	1.80	212.70	3,213.07	-11.51	-8.13	14.09	215.24	2.38	463,977.99	624,224.67	
3,304.00	1.80	152.70	3,303.03	-13.95	-8.24	16.21	210.58	2.00	463,975.55	624,224.56	
3,395.00	1.80	150.40	3,393.99	-16.46	-6.88	17.84	202.69	0.08	463,973.04	624,225.92	
3,485.00	1.50	129.60	3,483.95	-18.44	-5.28	19.18	195.97	0.74	463,971.06	624,227.52	
3,576.00	1.40	114.10	3,574.92	-19.66	-3.34	19.94	189.65	0.44	463,969.84	624,229.46	
3,667.00	1.50	107.30	3,665.89	-20.47	-1.19	20.50	183.33	0.22	463,969.03	624,231.61	
3,757.00	1.50	111.80	3,755.86	-21.25	1.03	21.28	177.24	0.13	463,968.25	624,233.83	
3,847.00	0.70	114.70	3,845.84	-21.92	2.62	22.08	173.19	0.89	463,967.58	624,235.42	
3,939.00	0.50	103.80	3,937.84	-22.25	3.52	22.53	171.01	0.25	463,967.25	624,236.32	
4,031.00	0.50	111.90	4,029.84	-22.50	4.28	22.90	169.22	0.08	463,967.00	624,237.08	
4,122.00	0.50	105.80	4,120.83	-22.75	5.03	23.30	167.53	0.06	463,966.75	624,237.83	
4,213.00	0.60	107.70	4,211.83	-23.01	5.87	23.74	165.69	0.11	463,966.49	624,238.67	
4,304.00	0.60	116.90	4,302.82	-23.37	6.75	24.32	163.89	0.11	463,966.13	624,239.55	
4,395.00	0.60	111.10	4,393.82	-23.75	7.62	24.94	162.22	0.07	463,965.75	624,240.42	
4,485.00	0.40	108.30	4,483.81	-24.02	8.35	25.43	160.82	0.22	463,965.48	624,241.15	
4,574.00	0.40	84.40	4,572.81	-24.09	8.96	25.70	159.60	0.19	463,965.41	624,241.76	
4,665.00	0.50	95.90	4,663.81	-24.10	9.67	25.97	158.14	0.15	463,965.40	624,242.47	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
4,756.00	0.40	109.90	4,754.81	-24.25	10.36	26.37	156.86	0.16	463,965.25	624,243.16
4,846.00	0.50	100.40	4,844.80	-24.43	11.05	26.81	155.67	0.14	463,965.07	624,243.85
4,936.00	0.50	113.80	4,934.80	-24.65	11.79	27.33	154.44	0.13	463,964.85	624,244.59
5,027.00	0.50	123.00	5,025.80	-25.03	12.49	27.97	153.49	0.09	463,964.47	624,245.29
5,119.00	0.60	121.80	5,117.79	-25.50	13.23	28.73	152.58	0.11	463,964.00	624,246.03
5,211.00	0.70	112.60	5,209.79	-25.97	14.16	29.58	151.40	0.16	463,963.53	624,246.96
5,302.00	0.70	107.90	5,300.78	-26.36	15.20	30.43	150.02	0.06	463,963.14	624,248.00
5,393.00	0.80	113.40	5,391.77	-26.78	16.32	31.36	148.65	0.14	463,962.72	624,249.12
5,483.00	0.70	116.50	5,481.77	-27.28	17.38	32.34	147.49	0.12	463,962.22	624,250.18
5,575.00	0.60	123.80	5,573.76	-27.79	18.29	33.27	146.66	0.14	463,961.71	624,251.09
5,665.00	0.40	138.30	5,663.76	-28.29	18.89	34.02	146.27	0.26	463,961.21	624,251.69
5,756.00	0.80	105.70	5,754.75	-28.70	19.71	34.82	145.52	0.56	463,960.80	624,252.51
5,848.00	0.90	100.90	5,846.74	-29.01	21.04	35.84	144.05	0.13	463,960.49	624,253.84
5,938.00	1.00	96.70	5,936.73	-29.24	22.51	36.90	142.40	0.14	463,960.26	624,255.31
6,029.00	0.80	96.80	6,027.72	-29.40	23.93	37.91	140.86	0.22	463,960.10	624,256.73
6,120.00	0.90	106.40	6,118.71	-29.68	25.25	38.97	139.61	0.19	463,959.82	624,258.05
6,208.00	0.90	111.10	6,206.70	-30.12	26.56	40.16	138.60	0.08	463,959.38	624,259.36
6,298.00	0.90	111.80	6,296.69	-30.64	27.87	41.42	137.71	0.01	463,958.86	624,260.67
6,390.00	1.00	117.50	6,388.67	-31.28	29.26	42.83	136.92	0.15	463,958.22	624,262.06
6,481.00	1.00	126.30	6,479.66	-32.12	30.60	44.36	136.39	0.17	463,957.38	624,263.40
6,571.00	1.10	132.10	6,569.64	-33.16	31.87	46.00	136.13	0.16	463,956.34	624,264.67
6,663.00	1.10	133.90	6,661.63	-34.37	33.16	47.76	136.02	0.04	463,955.13	624,265.96
6,755.00	1.20	137.10	6,753.61	-35.68	34.46	49.60	136.00	0.13	463,953.82	624,267.26
6,846.00	1.10	142.60	6,844.59	-37.08	35.64	51.43	136.13	0.16	463,952.42	624,268.44
6,936.00	1.30	145.80	6,934.57	-38.61	36.73	53.29	136.42	0.23	463,950.89	624,269.53
7,027.00	1.50	140.70	7,025.54	-40.38	38.07	55.50	136.69	0.26	463,949.12	624,270.87
7,120.00	1.50	138.50	7,118.51	-42.24	39.65	57.93	136.81	0.06	463,947.26	624,272.45

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
7,210.00	1.70	143.20	7,208.48	-44.19	41.23	60.43	136.98	0.27	463,945.31	624,274.03
7,302.00	1.70	142.40	7,300.44	-46.36	42.88	63.15	137.24	0.03	463,943.14	624,275.68
7,392.00	1.50	132.10	7,390.40	-48.21	44.57	65.65	137.25	0.39	463,941.29	624,277.37
7,481.00	1.80	125.00	7,479.36	-49.79	46.57	68.18	136.91	0.41	463,939.71	624,279.37
7,573.00	2.20	119.90	7,571.31	-51.50	49.29	71.29	136.26	0.48	463,938.00	624,282.09
7,666.00	1.30	119.10	7,664.26	-52.90	51.76	74.01	135.63	0.97	463,936.60	624,284.56
7,755.00	0.30	229.80	7,753.26	-53.54	52.46	74.96	135.58	1.61	463,935.96	624,285.26
7,846.00	1.50	270.10	7,844.24	-53.70	51.09	74.12	136.42	1.41	463,935.80	624,283.89
7,937.00	2.10	276.10	7,935.20	-53.52	48.24	72.05	137.97	0.69	463,935.98	624,281.04
8,028.00	1.90	260.80	8,026.14	-53.58	45.09	70.03	139.92	0.62	463,935.92	624,277.89
8,118.00	1.70	235.00	8,116.10	-54.58	42.53	69.20	142.08	0.92	463,934.92	624,275.33
8,210.00	1.40	215.50	8,208.07	-56.28	40.76	69.49	144.09	0.65	463,933.22	624,273.56
8,291.00	0.90	183.10	8,289.05	-57.72	40.15	70.31	145.18	0.99	463,931.78	624,272.95
8,380.00	1.30	104.80	8,378.04	-58.68	41.09	71.63	145.00	1.60	463,930.82	624,273.89
8,470.00	1.70	110.00	8,468.01	-59.40	43.33	73.52	143.89	0.47	463,930.10	624,276.13
8,562.00	1.40	127.20	8,559.97	-60.54	45.51	75.74	143.07	0.60	463,928.96	624,278.31
8,654.00	1.40	142.70	8,651.95	-62.12	47.08	77.94	142.84	0.41	463,927.38	624,279.88
8,743.00	1.70	133.20	8,740.91	-63.89	48.70	80.33	142.68	0.44	463,925.61	624,281.50
8,835.00	2.00	91.10	8,832.87	-64.85	51.30	82.69	141.65	1.48	463,924.65	624,284.10
8,925.00	3.00	105.80	8,922.79	-65.52	55.14	85.64	139.92	1.31	463,923.98	624,287.94
9,016.00	1.90	109.70	9,013.70	-66.68	58.85	88.94	138.57	1.22	463,922.82	624,291.65
9,106.00	1.40	104.20	9,103.66	-67.45	61.32	91.16	137.73	0.58	463,922.05	624,294.12
9,198.00	1.60	111.90	9,195.63	-68.21	63.60	93.26	137.00	0.31	463,921.29	624,296.40
9,288.00	1.30	89.40	9,285.60	-68.66	65.79	95.09	136.22	0.71	463,920.84	624,298.59
9,379.00	1.50	78.50	9,376.58	-68.42	67.99	96.45	135.18	0.37	463,921.08	624,300.79
9,469.00	1.90	78.40	9,466.54	-67.88	70.60	97.94	133.87	0.44	463,921.62	624,303.40
9,561.00	1.30	64.80	9,558.50	-67.13	73.04	99.21	132.58	0.77	463,922.37	624,305.84

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Well:	RN25-168H	North Reference:	Grid
Wellbore:	168H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	168H Lateral 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)
9,651.00	1.00	75.50	9,648.48	-66.50	74.73	100.03	131.67	0.41	463,923.00	624,307.53
9,742.00	1.10	96.70	9,739.47	-66.40	76.36	101.20	131.01	0.44	463,923.10	624,309.16
9,833.00	1.00	100.70	9,830.45	-66.65	78.01	102.61	130.51	0.14	463,922.85	624,310.81
9,923.00	0.90	116.30	9,920.44	-67.11	79.42	103.97	130.20	0.31	463,922.39	624,312.22
10,014.00	0.70	136.60	10,011.43	-67.83	80.44	105.22	130.14	0.38	463,921.67	624,313.24
10,104.00	0.40	152.90	10,101.43	-68.51	80.96	106.06	130.24	0.37	463,920.99	624,313.76
10,195.00	0.90	106.80	10,192.42	-69.00	81.79	107.01	130.15	0.75	463,920.50	624,314.59
10,285.00	1.40	107.90	10,282.40	-69.54	83.51	108.67	129.78	0.56	463,919.96	624,316.31
10,381.00	1.40	112.50	10,378.37	-70.35	85.71	110.89	129.38	0.12	463,919.15	624,318.51
10,435.00	1.80	120.10	10,432.35	-71.03	87.05	112.35	129.21	0.84	463,918.47	624,319.85
10,496.00	1.90	123.63	10,493.32	-72.07	88.73	114.31	129.09	0.25	463,917.43	624,321.53
10,586.00	1.56	132.02	10,583.28	-73.71	90.88	117.02	129.05	0.47	463,915.79	624,323.68
10,677.00	1.90	137.00	10,674.24	-75.65	92.83	119.75	129.18	0.41	463,913.85	624,325.63
10,722.00	1.07	19.73	10,719.23	-75.80	93.48	120.35	129.04	5.72	463,913.70	624,326.28
10,768.00	6.46	352.55	10,765.12	-72.82	93.29	118.35	127.98	12.02	463,916.68	624,326.09
10,813.00	11.30	352.65	10,809.56	-65.94	92.39	113.51	125.51	10.76	463,923.56	624,325.19
10,858.00	16.03	352.38	10,853.28	-55.40	91.01	106.54	121.33	10.51	463,934.10	624,323.81
10,904.00	20.25	354.63	10,896.98	-41.17	89.42	98.44	114.72	9.30	463,948.33	624,322.22
10,949.00	23.10	356.86	10,938.80	-24.60	88.20	91.57	105.59	6.59	463,964.90	624,321.00
RN25- 168H PBHL_200FNL_660FEL - RN25- 168H LTP_330FNL_660FEL - RN25- 168H FTP_251FSL_614FWL - RN25- 168H LP										

Checked By: _____	Approved By: _____	Date: _____
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Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Reference	168H Lateral AsDrilled		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum separation factor of 4.00	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	09/23/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
157.00	10,949.00	Survey #1 (168H Lateral)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Remuda North 25 State 107H,127H,128H,168H						
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,164.56	3,163.99	37.12	15.62	1.726	CC
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,350.00	3,348.93	37.73	14.93	1.655	ES
RN25-107H - 107H Lateral - 107H Lateral AsDrilled	3,400.00	3,398.43	38.20	15.06	1.651	SF
RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)	3,269.91	3,269.92	22.64	0.30	1.013	Level 2, CC, ES, SF
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	2,878.24	2,875.36	77.91	58.42	3.998	CC
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	2,900.00	2,897.01	77.95	58.32	3.970	ES
RN25-128H - 128H Lateral - 128H Lateral AsDrilled	7,700.00	7,696.14	156.61	102.94	2.918	SF
Remuda South 25 State 107H,128H,167H, 908H						
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
Remuda Basin 25 State1(Offset) - 25-1 (Offset) - 25-1 (O						Out of range
RS25-107H - RS25-107H - RS25-107H AsDrilled	10,485.67	10,783.50	92.66	20.70	1.288	Level 3, CC, ES, SF
RS25-128H - RS25-128H - Plan #1	10,711.19	11,073.19	100.08	24.50	1.324	Level 3, CC, ES, SF
RS25-167H - RS.25-167H - RS.25-167H AsDrilled						Out of range

Offset Design		Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled										Offset Site Error:		0.00 usft	
Survey Program:		155-MWD, 9762-MWD+IFR1+MS, 18300-Projection										Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)				
1,500.00	1,499.74	1,499.86	1,499.66	4.99	4.93	-135.78	-1.59	21.43	38.74	28.83	9.91	3.908			
1,550.00	1,549.73	1,549.82	1,549.62	5.17	5.11	-132.57	-2.05	21.55	39.33	29.07	10.27	3.831			
1,600.00	1,599.72	1,599.82	1,599.61	5.34	5.29	-131.85	-2.48	21.69	40.00	29.38	10.62	3.766			
1,650.00	1,649.72	1,649.84	1,649.63	5.52	5.46	-133.63	-3.01	21.81	40.77	29.79	10.98	3.714			
1,700.00	1,699.70	1,699.92	1,699.71	5.70	5.64	-131.43	-3.64	21.87	41.56	30.23	11.33	3.667			
1,750.00	1,749.70	1,750.03	1,749.81	5.88	5.82	-122.29	-4.37	21.79	41.99	30.31	11.69	3.593			
1,800.00	1,799.69	1,800.25	1,800.02	6.05	6.00	-123.90	-4.96	21.53	42.10	30.06	12.04	3.496			
1,850.00	1,849.68	1,850.45	1,850.23	6.23	6.17	-128.40	-5.15	21.00	42.19	29.79	12.40	3.403			
1,900.00	1,899.67	1,900.61	1,900.38	6.41	6.35	-137.35	-5.22	20.26	42.28	29.53	12.75	3.316			
1,950.00	1,949.65	1,950.61	1,950.37	6.59	6.52	-147.01	-5.28	19.36	42.39	29.29	13.10	3.235			
2,000.00	1,999.64	2,000.35	2,000.10	6.77	6.70	-170.63	-5.26	18.66	42.69	29.24	13.46	3.173			
2,050.00	2,049.63	2,050.08	2,049.83	6.95	6.87	149.79	-5.15	18.27	43.16	29.35	13.81	3.126			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,100.00	2,099.62	2,099.79	2,099.55	7.12	7.04	101.08	-4.92	18.18	43.53	29.38	14.15	3.076	
2,150.00	2,149.60	2,149.79	2,149.55	7.29	7.21	90.48	-4.61	18.29	43.70	29.20	14.50	3.014	
2,200.00	2,199.59	2,199.90	2,199.65	7.46	7.39	94.49	-4.28	18.28	43.75	28.91	14.84	2.948	
2,250.00	2,249.57	2,249.67	2,249.43	7.64	7.56	99.85	-3.89	18.31	43.95	28.77	15.18	2.895	
2,300.00	2,299.54	2,299.45	2,299.20	7.81	7.73	105.43	-3.38	18.61	44.57	29.05	15.52	2.871	
2,350.00	2,349.52	2,349.43	2,349.17	7.98	7.90	107.35	-2.78	19.03	45.40	29.53	15.87	2.861	
2,400.00	2,399.50	2,399.40	2,399.14	8.15	8.07	107.82	-2.15	19.46	46.21	29.99	16.21	2.850	
2,450.00	2,449.49	2,449.38	2,449.11	8.32	8.24	48.02	-1.60	19.91	46.58	30.02	16.56	2.813	
2,500.00	2,499.48	2,499.27	2,498.99	8.49	8.42	-4.27	-1.19	20.38	46.15	29.25	16.90	2.731	
2,550.00	2,549.47	2,549.05	2,548.77	8.66	8.59	-11.09	-0.92	21.05	45.54	28.30	17.24	2.642	
2,600.00	2,599.45	2,598.79	2,598.51	8.83	8.76	-16.64	-0.80	21.95	45.01	27.44	17.57	2.561	
2,650.00	2,649.42	2,648.52	2,648.22	9.00	8.93	-21.29	-0.87	23.13	44.60	26.69	17.91	2.490	
2,700.00	2,699.38	2,698.75	2,698.44	9.17	9.11	-24.26	-1.10	24.38	44.10	25.84	18.26	2.415	
2,750.00	2,749.34	2,749.07	2,748.75	9.33	9.28	-26.53	-1.43	25.26	43.25	24.64	18.61	2.324	
2,800.00	2,799.30	2,799.13	2,798.80	9.50	9.46	-28.72	-1.94	25.90	42.13	23.17	18.96	2.223	
2,850.00	2,849.25	2,849.13	2,848.79	9.67	9.64	-30.55	-2.67	26.47	40.75	21.45	19.30	2.111	
2,900.00	2,899.21	2,898.97	2,898.61	9.84	9.81	-35.33	-3.62	27.13	39.59	19.94	19.65	2.015	
2,950.00	2,949.18	2,948.96	2,948.59	10.02	9.99	-42.05	-4.76	27.95	39.00	19.01	19.99	1.951	
3,000.00	2,999.15	2,999.18	2,998.79	10.19	10.16	-52.14	-5.76	28.58	38.58	18.23	20.35	1.896	
3,050.00	3,049.13	3,049.34	3,048.94	10.36	10.34	-61.14	-6.54	28.94	38.21	17.51	20.70	1.846	
3,100.00	3,099.11	3,099.45	3,099.05	10.53	10.52	-63.04	-7.17	29.12	37.72	16.67	21.05	1.792	
3,150.00	3,149.09	3,149.43	3,149.03	10.71	10.69	-73.05	-7.69	29.21	37.17	15.77	21.40	1.737	
3,164.56	3,163.65	3,163.99	3,163.58	10.76	10.75	-85.88	-7.84	29.25	37.12	15.62	21.50	1.726 CC	
3,200.00	3,199.08	3,199.45	3,199.05	10.88	10.87	-117.46	-8.18	29.32	37.37	15.62	21.75	1.718	
3,250.00	3,249.05	3,249.49	3,249.08	11.06	11.05	-105.10	-8.61	29.36	38.07	15.96	22.10	1.722	
3,300.00	3,299.03	3,299.45	3,299.05	11.24	11.22	-72.33	-8.97	29.33	37.94	15.49	22.46	1.690	
3,341.71	3,340.72	3,340.73	3,340.32	11.38	11.37	-70.96	-9.17	29.58	37.75	15.01	22.74	1.660	
3,350.00	3,349.01	3,348.93	3,348.52	11.41	11.40	-70.72	-9.20	29.68	37.73	14.93	22.80	1.655 ES	
3,400.00	3,398.98	3,398.43	3,398.01	11.58	11.57	-70.53	-9.24	30.66	38.20	15.06	23.14	1.651 SF	
3,450.00	3,448.96	3,447.96	3,447.52	11.76	11.74	-61.28	-9.16	32.23	39.17	15.70	23.47	1.669	
3,500.00	3,498.95	3,497.66	3,497.17	11.93	11.92	-51.03	-8.99	34.32	40.51	16.70	23.81	1.701	
3,550.00	3,548.93	3,547.56	3,547.02	12.11	12.09	-43.30	-8.83	36.58	41.89	17.74	24.15	1.734	
3,600.00	3,598.91	3,597.58	3,596.98	12.28	12.27	-37.21	-8.70	38.90	43.22	18.72	24.50	1.764	
3,650.00	3,648.90	3,647.65	3,647.00	12.45	12.44	-33.81	-8.60	41.15	44.38	19.52	24.86	1.785	
3,700.00	3,698.88	3,697.61	3,696.91	12.63	12.62	-34.53	-8.52	43.35	45.43	20.23	25.21	1.802	
3,750.00	3,748.86	3,747.55	3,746.81	12.80	12.80	-37.36	-8.41	45.59	46.57	21.01	25.55	1.822	
3,800.00	3,798.85	3,797.59	3,796.80	12.97	12.97	-38.81	-8.32	47.83	47.83	21.92	25.91	1.846	
3,850.00	3,848.84	3,847.73	3,846.89	13.15	13.15	-40.52	-8.28	50.01	49.33	23.06	26.26	1.878	
3,900.00	3,898.84	3,898.21	3,897.33	13.32	13.33	-35.19	-8.31	51.84	50.63	24.00	26.63	1.901	
3,950.00	3,948.84	3,948.60	3,947.70	13.50	13.50	-30.38	-8.41	53.21	51.51	24.52	26.99	1.908	
4,000.00	3,998.84	3,998.89	3,997.98	13.67	13.68	-34.52	-8.61	54.27	52.10	24.76	27.35	1.905	
4,050.00	4,048.84	4,048.98	4,048.06	13.84	13.86	-35.73	-8.88	55.11	52.49	24.80	27.70	1.895	
4,100.00	4,098.83	4,098.96	4,098.03	14.02	14.04	-32.15	-9.12	55.95	52.88	24.83	28.05	1.885	
4,150.00	4,148.83	4,148.89	4,147.96	14.19	14.21	-31.09	-9.36	56.82	53.28	24.88	28.40	1.876	
4,200.00	4,198.83	4,198.82	4,197.88	14.37	14.39	-31.81	-9.65	57.78	53.72	24.97	28.75	1.868	
4,250.00	4,248.83	4,248.87	4,247.92	14.54	14.57	-35.50	-9.98	58.75	54.15	25.04	29.10	1.860	
4,300.00	4,298.82	4,298.89	4,297.92	14.72	14.75	-40.33	-10.31	59.67	54.55	25.09	29.46	1.852	
4,350.00	4,348.82	4,348.71	4,347.74	14.89	14.92	-37.65	-10.55	60.65	55.05	25.24	29.81	1.847	
4,400.00	4,398.82	4,398.61	4,397.63	15.07	15.10	-34.62	-10.66	61.76	55.67	25.51	30.16	1.846	
4,450.00	4,448.82	4,448.64	4,447.65	15.25	15.28	-33.27	-10.68	62.85	56.34	25.83	30.51	1.846	
4,500.00	4,498.81	4,498.38	4,497.37	15.42	15.45	-27.88	-10.67	63.97	57.12	26.26	30.86	1.851	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,550.00	4,548.81	4,547.89	4,546.86	15.60	15.63	-13.96	-10.82	65.49	58.27	27.07	31.20	1.868	
4,600.00	4,598.81	4,597.78	4,596.71	15.77	15.81	-10.77	-11.12	67.37	59.68	28.13	31.55	1.892	
4,650.00	4,648.81	4,647.81	4,646.71	15.95	15.99	-16.20	-11.54	69.24	61.04	29.13	31.90	1.913	
4,700.00	4,698.81	4,697.79	4,696.65	16.12	16.16	-21.76	-12.02	71.10	62.36	30.11	32.26	1.933	
4,750.00	4,748.81	4,747.75	4,746.58	16.30	16.34	-29.38	-12.49	72.96	63.76	31.15	32.61	1.955	
4,800.00	4,798.81	4,797.66	4,796.44	16.47	16.52	-24.78	-12.95	74.85	65.22	32.26	32.96	1.979	
4,850.00	4,848.80	4,847.58	4,846.32	16.65	16.70	-20.52	-13.40	76.79	66.68	33.37	33.31	2.002	
4,900.00	4,898.80	4,897.53	4,896.23	16.82	16.88	-27.51	-13.80	78.75	68.15	34.49	33.66	2.025	
4,950.00	4,948.80	4,947.46	4,946.13	17.00	17.06	-33.91	-14.17	80.73	69.68	35.66	34.02	2.048	
5,000.00	4,998.80	4,997.38	4,996.00	17.18	17.24	-38.63	-14.54	82.75	71.27	36.90	34.37	2.074	
5,050.00	5,048.80	5,047.36	5,046.94	17.35	17.41	-40.68	-14.96	84.79	72.90	38.18	34.72	2.100	
5,100.00	5,098.79	5,097.37	5,095.90	17.53	17.59	-39.69	-15.45	86.83	74.49	39.41	35.08	2.123	
5,150.00	5,148.79	5,147.47	5,145.96	17.71	17.77	-35.64	-16.05	88.83	75.98	40.54	35.44	2.144	
5,200.00	5,198.79	5,197.58	5,196.03	17.88	17.95	-30.30	-16.84	90.77	77.32	41.52	35.80	2.160	
5,250.00	5,248.78	5,247.74	5,246.14	18.06	18.13	-26.68	-17.80	92.63	78.52	42.36	36.15	2.172	
5,300.00	5,298.78	5,297.80	5,296.16	18.24	18.31	-23.35	-18.92	94.40	79.61	43.10	36.51	2.181	
5,350.00	5,348.78	5,347.65	5,345.96	18.41	18.49	-25.60	-20.06	96.20	80.73	43.87	36.86	2.190	
5,400.00	5,398.77	5,397.80	5,396.07	18.59	18.67	-27.55	-21.18	98.04	81.87	44.65	37.22	2.200	
5,450.00	5,448.77	5,448.32	5,446.54	18.77	18.85	-28.47	-22.46	99.63	82.78	45.20	37.58	2.203	
5,500.00	5,498.76	5,498.73	5,496.92	18.95	19.03	-30.09	-23.86	100.93	83.46	45.51	37.94	2.199	
5,550.00	5,548.76	5,549.11	5,547.27	19.12	19.21	-33.17	-25.33	101.98	83.97	45.66	38.30	2.192	
5,600.00	5,598.76	5,599.19	5,597.32	19.30	19.39	-37.52	-26.79	102.88	84.41	45.75	38.66	2.183	
5,650.00	5,648.76	5,649.23	5,647.33	19.48	19.57	-45.00	-28.16	103.73	84.93	45.92	39.01	2.177	
5,700.00	5,698.75	5,699.20	5,697.27	19.65	19.75	-29.46	-29.48	104.58	85.49	46.12	39.37	2.171	
5,750.00	5,748.75	5,749.20	5,747.25	19.83	19.93	-15.34	-30.79	105.43	85.84	46.12	39.72	2.161	
5,800.00	5,798.75	5,799.31	5,797.33	20.01	20.11	-11.10	-32.10	106.24	85.99	45.91	40.08	2.146	
5,850.00	5,848.74	5,849.36	5,847.37	20.19	20.29	-7.99	-33.39	106.99	86.04	45.61	40.43	2.128	
5,900.00	5,898.73	5,899.37	5,897.36	20.36	20.46	-4.72	-34.62	107.72	86.03	45.25	40.79	2.109	
5,950.00	5,948.73	5,949.35	5,947.31	20.54	20.64	-2.33	-35.82	108.44	85.98	44.84	41.14	2.090	
5,960.75	5,959.47	5,960.09	5,958.05	20.58	20.68	-2.19	-36.07	108.60	85.98	44.77	41.22	2.086	
6,000.00	5,998.72	5,999.31	5,997.25	20.72	20.82	-1.66	-37.00	109.18	86.02	44.53	41.49	2.073	
6,050.00	6,048.72	6,049.35	6,047.28	20.89	21.00	-3.41	-38.17	109.92	86.15	44.30	41.85	2.059	
6,100.00	6,098.71	6,099.41	6,097.32	21.07	21.18	-8.02	-39.30	110.63	86.23	44.03	42.20	2.043	
6,150.00	6,148.70	6,149.25	6,147.14	21.25	21.36	-10.93	-40.44	111.35	86.32	43.76	42.56	2.028	
6,200.00	6,198.70	6,199.10	6,196.97	21.43	21.54	-12.98	-41.65	112.15	86.51	43.60	42.91	2.016	
6,250.00	6,248.69	6,249.03	6,246.87	21.60	21.71	-13.12	-42.90	113.01	86.76	43.50	43.26	2.005	
6,300.00	6,298.68	6,298.99	6,296.81	21.78	21.89	-12.85	-44.19	113.89	87.07	43.45	43.62	1.996	
6,350.00	6,348.68	6,349.00	6,346.80	21.96	22.07	-15.56	-45.54	114.76	87.36	43.39	43.97	1.987	
6,400.00	6,398.67	6,398.96	6,396.73	22.14	22.25	-18.21	-46.95	115.61	87.62	43.29	44.33	1.977	
6,450.00	6,448.66	6,448.86	6,446.61	22.31	22.43	-22.51	-48.26	116.53	87.95	43.27	44.68	1.968	
6,500.00	6,498.66	6,498.87	6,496.59	22.49	22.61	-26.39	-49.51	117.48	88.33	43.29	45.04	1.961	
6,550.00	6,548.65	6,548.91	6,546.61	22.67	22.79	-29.20	-50.78	118.41	88.68	43.29	45.40	1.953	
6,600.00	6,598.64	6,598.90	6,596.57	22.85	22.97	-30.65	-52.06	119.32	89.01	43.26	45.75	1.945	
6,650.00	6,648.63	6,648.88	6,646.53	23.03	23.15	-31.27	-53.33	120.24	89.35	43.24	46.11	1.938	
6,700.00	6,698.62	6,698.75	6,696.37	23.21	23.33	-32.57	-54.56	121.21	89.74	43.28	46.46	1.931	
6,750.00	6,748.61	6,748.66	6,746.26	23.38	23.51	-34.04	-55.72	122.26	90.17	43.36	46.82	1.926	
6,800.00	6,798.60	6,798.67	6,796.24	23.56	23.69	-36.61	-56.87	123.33	90.64	43.46	47.18	1.921	
6,850.00	6,848.59	6,848.70	6,846.25	23.74	23.87	-39.51	-58.02	124.39	91.16	43.63	47.53	1.918	
6,900.00	6,898.58	6,898.78	6,896.30	23.92	24.05	-41.26	-59.14	125.43	91.65	43.76	47.89	1.914	
6,950.00	6,948.57	6,948.91	6,946.41	24.10	24.23	-41.48	-60.22	126.42	92.04	43.79	48.25	1.908	
7,000.00	6,998.55	6,999.08	6,996.56	24.28	24.41	-38.63	-61.25	127.33	92.24	43.63	48.61	1.898	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,050.00	7,048.54	7,049.11	7,046.58	24.46	24.59	-36.74	-62.24	128.19	92.27	43.31	48.97	1.884	
7,100.00	7,098.52	7,099.13	7,096.58	24.63	24.77	-35.55	-63.24	129.04	92.27	42.95	49.32	1.871	
7,150.00	7,148.50	7,149.09	7,146.53	24.81	24.95	-36.78	-64.23	129.89	92.26	42.58	49.68	1.857	
7,200.00	7,198.48	7,199.02	7,196.43	24.99	25.13	-39.40	-65.20	130.77	92.22	42.19	50.04	1.843	
7,210.54	7,209.01	7,209.51	7,206.92	25.03	25.16	-39.42	-65.41	130.96	92.22	42.11	50.11	1.840	
7,250.00	7,248.46	7,248.81	7,246.21	25.17	25.30	-39.63	-66.21	131.72	92.25	41.86	50.39	1.831	
7,300.00	7,298.44	7,298.60	7,295.98	25.35	25.48	-39.27	-67.29	132.78	92.38	41.63	50.75	1.820	
7,350.00	7,348.42	7,348.83	7,346.18	25.53	25.66	-34.10	-68.40	133.83	92.51	41.40	51.11	1.810	
7,400.00	7,398.40	7,399.04	7,396.37	25.71	25.85	-28.13	-69.48	134.76	92.51	41.04	51.47	1.797	
7,450.00	7,448.38	7,449.18	7,446.49	25.89	26.03	-23.85	-70.51	135.61	92.30	40.48	51.83	1.781	
7,500.00	7,498.35	7,499.26	7,496.55	26.07	26.21	-20.34	-71.46	136.40	91.85	39.67	52.18	1.760	
7,550.00	7,548.32	7,549.22	7,546.50	26.24	26.38	-17.52	-72.31	137.22	91.20	38.66	52.54	1.736	
7,600.00	7,598.29	7,599.34	7,596.61	26.42	26.56	-16.23	-73.10	138.04	90.42	37.52	52.90	1.709	
7,650.00	7,648.27	7,649.59	7,646.84	26.60	26.74	-15.52	-74.13	138.68	89.85	36.60	53.26	1.687	
7,681.68	7,679.94	7,681.19	7,678.43	26.71	26.86	-18.97	-74.86	139.01	89.70	36.22	53.48	1.677	
7,700.00	7,698.26	7,699.38	7,696.62	26.78	26.92	-22.91	-75.21	139.25	89.72	36.11	53.61	1.674	
7,750.00	7,748.26	7,749.02	7,746.25	26.95	27.10	-110.62	-75.87	140.12	90.47	36.51	53.96	1.677	
7,800.00	7,798.25	7,799.64	7,796.86	27.13	27.28	-159.32	-76.25	141.03	91.82	37.51	54.32	1.691	
7,850.00	7,848.24	7,850.20	7,847.41	27.30	27.46	-166.31	-76.52	141.55	93.40	38.73	54.67	1.709	
7,900.00	7,898.22	7,899.69	7,896.90	27.47	27.64	-170.09	-76.75	142.07	95.41	40.40	55.01	1.734	
7,950.00	7,948.19	7,949.47	7,946.67	27.63	27.82	-170.21	-76.98	142.83	97.93	42.57	55.36	1.769	
8,000.00	7,998.16	8,000.13	7,997.33	27.80	28.00	-162.09	-77.25	143.38	100.22	44.51	55.71	1.799	
8,050.00	8,048.13	8,050.57	8,047.77	27.97	28.18	-151.56	-77.57	143.58	102.01	45.95	56.06	1.820	
8,100.00	8,098.11	8,100.75	8,097.95	28.14	28.35	-137.31	-77.95	143.62	103.38	46.97	56.41	1.833	
8,150.00	8,148.09	8,149.52	8,146.72	28.32	28.53	-126.31	-78.21	143.81	104.59	47.83	56.76	1.843	
8,200.00	8,198.07	8,197.54	8,194.71	28.49	28.69	-116.14	-77.82	144.99	106.38	49.30	57.09	1.864	
8,250.00	8,248.06	8,247.23	8,244.36	28.67	28.87	-102.48	-76.96	146.90	108.49	51.06	57.44	1.889	
8,300.00	8,298.05	8,297.38	8,294.48	28.84	29.05	-74.75	-76.16	148.74	110.18	52.39	57.79	1.907	
8,350.00	8,348.04	8,347.70	8,344.76	29.02	29.22	-23.84	-75.45	150.44	111.25	53.10	58.15	1.913	
8,400.00	8,398.03	8,397.80	8,394.83	29.20	29.40	-7.96	-74.82	151.96	111.62	53.12	58.51	1.908	
8,450.00	8,448.02	8,446.60	8,443.59	29.37	29.57	-11.35	-74.23	153.72	112.04	53.20	58.84	1.904	
8,500.00	8,498.00	8,495.91	8,492.85	29.55	29.75	-17.78	-73.63	156.00	112.85	53.68	59.17	1.907	
8,550.00	8,547.98	8,546.49	8,543.38	29.73	29.93	-28.08	-73.19	158.24	113.80	54.25	59.54	1.911	
8,600.00	8,597.96	8,597.65	8,594.51	29.91	30.11	-37.65	-72.96	160.15	114.61	54.68	59.92	1.913	
8,650.00	8,647.95	8,649.52	8,646.35	30.09	30.29	-46.69	-72.72	161.32	114.81	54.51	60.30	1.904	
8,700.00	8,697.93	8,699.70	8,696.54	30.27	30.46	-42.67	-72.31	161.89	114.44	53.78	60.65	1.887	
8,750.00	8,747.91	8,749.01	8,745.82	30.45	30.64	-36.08	-71.28	162.72	114.11	53.11	61.00	1.871	
8,800.00	8,797.89	8,799.53	8,796.32	30.62	30.81	-12.62	-69.92	163.66	113.62	52.26	61.36	1.852	
8,850.00	8,847.86	8,849.00	8,845.77	30.80	30.98	-2.40	-68.95	164.21	112.46	50.75	61.71	1.822	
8,900.00	8,897.82	8,898.11	8,894.88	30.98	31.15	-11.08	-68.58	165.04	111.19	49.15	62.05	1.792	
8,950.00	8,947.75	8,946.26	8,942.99	31.16	31.32	-14.90	-69.03	166.75	110.57	48.20	62.36	1.773	
8,961.41	8,959.15	8,957.67	8,954.39	31.20	31.36	-15.29	-69.21	167.24	110.55	48.11	62.44	1.770	
9,000.00	8,997.71	8,996.27	8,992.95	31.34	31.50	-16.95	-69.89	168.88	110.71	47.99	62.72	1.765	
9,050.00	9,047.68	9,046.18	9,042.81	31.51	31.68	-16.01	-70.87	171.00	111.31	48.24	63.07	1.765	
9,100.00	9,097.67	9,095.91	9,092.47	31.69	31.86	-12.47	-71.74	173.21	112.24	48.81	63.42	1.770	
9,150.00	9,147.65	9,145.75	9,142.26	31.87	32.04	-15.76	-72.43	175.54	113.37	49.60	63.78	1.778	
9,200.00	9,197.63	9,195.71	9,192.16	32.05	32.22	-19.06	-73.06	177.89	114.47	50.34	64.13	1.785	
9,250.00	9,247.61	9,246.20	9,242.59	32.23	32.41	-7.52	-73.66	180.21	115.53	51.03	64.50	1.791	
9,300.00	9,297.60	9,296.95	9,293.29	32.40	32.59	5.02	-74.35	182.23	116.38	51.51	64.87	1.794	
9,350.00	9,347.59	9,347.25	9,343.56	32.58	32.77	11.58	-75.12	183.97	116.97	51.73	65.24	1.793	
9,400.00	9,397.57	9,397.44	9,393.71	32.76	32.95	15.29	-76.02	185.60	117.37	51.78	65.59	1.789	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-107H - 107H Lateral - 107 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 155-MWD, 9762-MWD+IFR1+MS, 18300-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,450.00	9,447.55	9,446.95	9,443.19	32.93	33.13	15.95	-76.97	187.26	117.68	51.75	65.94	1.785	
9,500.00	9,497.52	9,496.49	9,492.68	33.11	33.31	20.09	-77.95	189.13	118.13	51.85	66.28	1.782	
9,550.00	9,547.50	9,546.13	9,542.28	33.29	33.49	28.60	-78.98	191.15	119.03	52.41	66.63	1.787	
9,600.00	9,597.49	9,596.11	9,592.20	33.46	33.67	27.56	-80.06	193.29	120.33	53.35	66.98	1.796	
9,650.00	9,647.48	9,646.71	9,642.74	33.64	33.86	21.65	-81.31	195.26	121.54	54.20	67.35	1.805	
9,700.00	9,697.47	9,697.15	9,693.14	33.81	33.99	10.25	-82.75	196.95	122.54	54.88	67.66	1.811	
9,750.00	9,747.47	9,747.46	9,743.39	33.99	34.08	1.39	-84.46	198.44	123.32	55.39	67.93	1.815	
9,800.00	9,797.46	9,796.84	9,792.72	34.17	34.12	-0.19	-85.88	199.95	124.12	55.98	68.14	1.822	
9,850.00	9,847.45	9,845.83	9,841.67	34.35	34.15	-4.76	-85.48	202.10	125.35	57.02	68.33	1.835	
9,900.00	9,897.44	9,893.22	9,888.82	34.53	34.16	-15.07	-82.27	205.21	127.35	58.84	68.50	1.859	
9,950.00	9,947.44	9,945.67	9,940.48	34.70	34.26	-28.26	-74.06	208.86	129.45	60.60	68.84	1.880	
10,000.00	9,997.43	9,991.17	9,984.49	34.88	34.34	-44.76	-63.07	212.14	132.54	63.68	68.86	1.925	
10,050.00	10,047.43	10,032.99	10,024.15	35.06	34.40	-58.39	-50.52	216.46	138.86	70.39	68.46	2.028	
10,100.00	10,097.43	10,078.58	10,066.37	35.24	34.47	-75.33	-34.13	221.57	148.05	79.84	68.21	2.170	
10,150.00	10,147.43	10,121.00	10,104.44	35.42	34.55	-50.29	-15.93	225.76	159.77	92.18	67.59	2.364	
10,200.00	10,197.42	10,159.35	10,137.55	35.60	34.61	-42.77	3.13	229.13	174.58	108.11	66.47	2.627	
10,250.00	10,247.41	10,198.22	10,169.95	35.77	34.65	-49.24	24.35	232.31	192.71	127.28	65.43	2.945	
10,300.00	10,297.40	10,233.89	10,199.21	35.95	34.67	-55.06	44.54	235.26	213.55	149.33	64.22	3.325	
10,350.00	10,347.38	10,265.42	10,224.35	36.13	34.69	-61.36	63.36	238.07	237.42	174.60	62.83	3.779	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,050.00	1,049.83	1,049.51	1,049.45	3.40	3.49	25.52	-7.12	-35.80	26.85	19.97	6.89	3.900	
1,100.00	1,099.81	1,099.48	1,099.42	3.58	3.67	24.47	-8.04	-36.13	26.47	19.23	7.24	3.657	
1,150.00	1,149.80	1,149.45	1,149.38	3.75	3.85	23.39	-9.01	-36.48	26.04	18.45	7.59	3.431	
1,200.00	1,199.78	1,199.39	1,199.31	3.93	4.03	22.21	-10.06	-36.88	25.61	17.66	7.94	3.223	
1,250.00	1,249.76	1,249.34	1,249.24	4.10	4.21	22.10	-11.23	-37.35	25.30	17.00	8.30	3.049	
1,262.58	1,262.33	1,261.91	1,261.80	4.15	4.25	22.24	-11.55	-37.47	25.28	16.90	8.39	3.015	
1,300.00	1,299.75	1,299.31	1,299.19	4.28	4.39	22.96	-12.52	-37.83	25.40	16.75	8.65	2.936	
1,350.00	1,349.74	1,349.24	1,349.10	4.46	4.57	18.46	-13.92	-38.33	25.91	16.90	9.01	2.877	
1,400.00	1,399.74	1,399.11	1,398.94	4.63	4.75	4.20	-15.44	-38.97	26.89	17.53	9.36	2.872	
1,450.00	1,449.74	1,449.17	1,448.97	4.81	4.93	6.07	-16.99	-39.73	28.04	18.32	9.72	2.885	
1,500.00	1,499.74	1,499.40	1,499.18	4.99	5.11	7.20	-18.05	-40.40	28.66	18.58	10.08	2.844	
1,550.00	1,549.73	1,549.56	1,549.34	5.17	5.29	10.46	-18.61	-40.99	28.79	18.36	10.43	2.760	
1,600.00	1,599.72	1,599.70	1,599.48	5.34	5.46	12.04	-18.80	-41.54	28.58	17.80	10.79	2.650	
1,650.00	1,649.72	1,649.60	1,649.38	5.52	5.64	11.42	-18.87	-42.10	28.15	17.01	11.14	2.527	
1,700.00	1,699.70	1,699.49	1,699.26	5.70	5.82	14.49	-19.18	-42.74	27.81	16.32	11.50	2.419	
1,715.34	1,715.04	1,714.81	1,714.57	5.75	5.87	16.82	-19.31	-42.96	27.79	16.18	11.61	2.395	
1,750.00	1,749.70	1,749.41	1,749.17	5.88	6.00	24.20	-19.61	-43.50	27.90	16.05	11.85	2.354	
1,800.00	1,799.69	1,799.30	1,799.05	6.05	6.18	23.39	-20.11	-44.39	28.28	16.07	12.21	2.317	
1,850.00	1,849.68	1,849.11	1,848.85	6.23	6.36	20.40	-20.84	-45.46	28.62	16.06	12.56	2.279	
1,900.00	1,899.67	1,899.03	1,898.74	6.41	6.54	12.93	-21.85	-46.69	29.02	16.10	12.92	2.247	
1,950.00	1,949.65	1,949.08	1,948.76	6.59	6.72	4.52	-22.74	-47.97	29.31	16.04	13.28	2.208	
2,000.00	1,999.64	1,999.48	1,999.15	6.77	6.90	-18.24	-23.24	-49.18	29.51	15.88	13.63	2.165	
2,050.00	2,049.63	2,050.07	2,049.72	6.95	7.07	-56.72	-22.52	-50.00	29.14	15.15	13.98	2.084	
2,100.00	2,099.62	2,100.39	2,100.01	7.12	7.24	-104.33	-20.78	-50.45	28.60	14.27	14.32	1.997	
2,150.00	2,149.60	2,150.65	2,150.21	7.29	7.40	-114.40	-18.49	-50.63	28.23	13.57	14.66	1.926	
2,200.00	2,199.59	2,200.54	2,200.05	7.46	7.57	-109.93	-16.09	-50.73	27.80	12.80	15.00	1.854	
2,250.00	2,249.57	2,250.45	2,249.92	7.64	7.74	-104.46	-13.94	-50.89	27.50	12.16	15.34	1.793	
2,300.00	2,299.54	2,300.41	2,299.83	7.81	7.90	-99.04	-11.90	-51.12	27.22	11.54	15.68	1.736	
2,350.00	2,349.52	2,350.42	2,349.80	7.98	8.07	-97.33	-9.94	-51.38	26.94	10.92	16.02	1.682	
2,400.00	2,399.50	2,400.50	2,399.86	8.15	8.24	-97.47	-8.36	-51.36	26.52	10.16	16.36	1.621	
2,450.00	2,449.49	2,450.59	2,449.93	8.32	8.41	-157.44	-7.29	-50.96	26.17	9.47	16.70	1.567	
2,500.00	2,499.48	2,500.69	2,500.02	8.49	8.57	151.17	-6.93	-50.09	26.10	9.07	17.03	1.532	
2,550.00	2,549.47	2,550.77	2,550.09	8.66	8.74	145.11	-7.11	-48.83	26.05	8.69	17.36	1.500	
2,600.00	2,599.45	2,600.85	2,600.14	8.83	8.91	140.53	-7.38	-47.39	25.96	8.26	17.70	1.467 Level 3	
2,650.00	2,649.42	2,650.87	2,650.13	9.00	9.08	137.06	-7.77	-45.80	25.87	7.83	18.03	1.434 Level 3	
2,700.00	2,699.38	2,700.88	2,700.12	9.17	9.25	135.32	-8.33	-44.11	25.82	7.45	18.37	1.406 Level 3	
2,750.00	2,749.34	2,750.88	2,750.09	9.33	9.42	134.12	-9.00	-42.37	25.74	7.03	18.71	1.376 Level 3	
2,800.00	2,799.30	2,800.90	2,800.06	9.50	9.59	132.92	-9.74	-40.60	25.66	6.61	19.05	1.347 Level 3	
2,850.00	2,849.25	2,850.94	2,850.06	9.67	9.76	132.01	-10.67	-38.69	25.64	6.25	19.39	1.322 Level 3	
2,900.00	2,899.21	2,900.85	2,899.92	9.84	9.93	127.56	-11.76	-36.72	25.48	5.74	19.74	1.291 Level 3	
2,950.00	2,949.18	2,950.65	2,949.68	10.02	10.10	120.89	-12.74	-35.15	25.29	5.20	20.09	1.259 Level 3	
3,000.00	2,999.15	3,000.46	2,999.48	10.19	10.28	111.38	-13.61	-34.03	25.15	4.71	20.45	1.230 Level 2	
3,049.88	3,049.01	3,050.17	3,049.17	10.36	10.45	103.62	-14.43	-33.28	25.09	4.29	20.80	1.206 Level 2	
3,050.00	3,049.13	3,050.29	3,049.29	10.36	10.45	103.56	-14.43	-33.28	25.05	4.26	20.80	1.205 Level 2	
3,100.00	3,099.11	3,100.32	3,099.31	10.53	10.62	103.48	-15.25	-32.70	25.05	3.90	21.15	1.184 Level 2	
3,150.00	3,149.09	3,150.36	3,149.34	10.71	10.80	95.61	-16.13	-32.01	24.93	3.43	21.49	1.160 Level 2	
3,200.00	3,199.08	3,200.34	3,199.31	10.88	10.98	52.92	-17.03	-31.25	24.05	2.21	21.85	1.101 Level 2	
3,250.00	3,249.05	3,250.17	3,249.12	11.06	11.15	67.18	-17.80	-30.65	22.77	0.57	22.20	1.026 Level 2	
3,269.91	3,268.96	3,269.92	3,268.87	11.13	11.22	82.24	-18.11	-30.59	22.64	0.30	22.34	1.013 Level 2, CC, ES, SF	
3,300.00	3,299.03	3,299.77	3,298.72	11.24	11.33	103.04	-18.60	-30.75	22.95	0.40	22.55	1.018 Level 2	
3,350.00	3,349.01	3,349.43	3,348.36	11.41	11.50	108.45	-19.46	-31.64	24.45	1.57	22.88	1.069 Level 2	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)													Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,400.00	3,398.98	3,399.14	3,398.04	11.58	11.68	112.56	-20.25	-33.07	26.54	3.32	23.22	1.143	Level 2	
3,450.00	3,448.96	3,448.99	3,447.86	11.76	11.86	125.02	-21.00	-34.89	29.14	5.56	23.57	1.236	Level 2	
3,500.00	3,498.95	3,498.96	3,497.79	11.93	12.03	137.15	-21.79	-36.67	31.87	7.94	23.93	1.332	Level 3	
3,550.00	3,548.93	3,548.90	3,547.69	12.11	12.21	145.83	-22.63	-38.39	34.65	10.37	24.29	1.427	Level 3	
3,600.00	3,598.91	3,598.82	3,597.57	12.28	12.39	152.24	-23.49	-40.11	37.50	12.87	24.64	1.522		
3,650.00	3,648.90	3,648.76	3,647.48	12.45	12.57	155.95	-24.21	-41.82	40.41	15.42	24.99	1.617		
3,700.00	3,698.88	3,698.71	3,697.40	12.63	12.74	155.80	-24.67	-43.52	43.35	18.00	25.34	1.710		
3,750.00	3,748.86	3,748.71	3,747.37	12.80	12.92	153.88	-24.92	-45.16	46.19	20.50	25.70	1.798		
3,800.00	3,798.85	3,798.64	3,797.28	12.97	13.10	153.36	-24.99	-46.75	48.83	22.78	26.05	1.875		
3,850.00	3,848.84	3,848.49	3,847.10	13.15	13.27	152.03	-25.07	-48.40	51.18	24.79	26.40	1.939		
3,900.00	3,898.84	3,898.40	3,896.98	13.32	13.45	157.40	-25.18	-50.14	53.42	26.68	26.74	1.997		
3,950.00	3,948.84	3,948.35	3,946.90	13.50	13.63	162.10	-25.31	-51.87	55.60	28.51	27.10	2.052		
4,000.00	3,998.84	3,998.26	3,996.78	13.67	13.80	157.83	-25.42	-53.63	57.77	30.33	27.45	2.105		
4,050.00	4,048.84	4,048.16	4,046.64	13.84	13.98	156.61	-25.44	-55.43	59.97	32.18	27.79	2.158		
4,100.00	4,098.83	4,098.01	4,096.45	14.02	14.16	160.54	-25.06	-57.31	62.24	34.10	28.14	2.212		
4,150.00	4,148.83	4,147.83	4,146.22	14.19	14.33	162.60	-23.88	-59.30	64.64	36.15	28.49	2.269		
4,200.00	4,198.83	4,197.80	4,196.12	14.37	14.50	163.04	-22.36	-61.32	67.12	38.28	28.84	2.328		
4,250.00	4,248.83	4,247.72	4,245.99	14.54	14.68	160.48	-20.79	-63.30	69.63	40.45	29.18	2.386		
4,300.00	4,298.82	4,297.58	4,295.78	14.72	14.85	156.74	-19.26	-65.30	72.19	42.66	29.53	2.445		
4,350.00	4,348.82	4,347.50	4,345.64	14.89	15.03	160.48	-17.76	-67.33	74.81	44.93	29.88	2.504		
4,400.00	4,398.82	4,397.49	4,395.56	15.07	15.20	164.55	-16.29	-69.32	77.42	47.19	30.23	2.561		
4,450.00	4,448.82	4,447.34	4,445.36	15.25	15.37	166.89	-14.81	-71.29	79.99	49.41	30.58	2.616		
4,500.00	4,498.81	4,497.14	4,495.09	15.42	15.55	173.18	-13.26	-73.31	82.56	51.64	30.92	2.670		
4,550.00	4,548.81	4,546.95	4,544.83	15.60	15.72	-172.41	-11.71	-75.41	85.20	53.93	31.27	2.725		
4,600.00	4,598.81	4,596.76	4,594.57	15.77	15.90	-169.19	-10.28	-77.58	87.92	56.31	31.62	2.781		
4,650.00	4,648.81	4,646.65	4,644.39	15.95	16.07	-174.66	-8.85	-79.80	90.74	58.77	31.97	2.839		
4,700.00	4,698.81	4,696.99	4,694.66	16.12	16.25	179.80	-7.33	-82.00	93.58	61.26	32.32	2.895		
4,750.00	4,748.81	4,748.95	4,746.58	16.30	16.43	172.25	-5.95	-83.53	95.64	62.94	32.70	2.925		
4,800.00	4,798.81	4,799.91	4,797.52	16.47	16.61	176.89	-4.86	-84.13	96.79	63.73	33.06	2.927		
4,850.00	4,848.80	4,849.87	4,847.47	16.65	16.78	-178.88	-3.89	-84.61	97.88	64.47	33.41	2.929		
4,900.00	4,898.80	4,899.89	4,897.48	16.82	16.95	174.13	-2.98	-85.11	98.99	65.23	33.76	2.932		
4,950.00	4,948.80	4,949.93	4,947.51	17.00	17.13	167.83	-2.12	-85.58	100.08	65.97	34.11	2.934		
5,000.00	4,998.80	4,999.94	4,997.51	17.18	17.30	163.24	-1.27	-86.04	101.14	66.68	34.46	2.935		
5,050.00	5,048.80	5,049.93	5,047.50	17.35	17.48	161.34	-0.42	-86.49	102.19	67.38	34.81	2.936		
5,100.00	5,098.79	5,099.87	5,097.42	17.53	17.65	162.48	0.46	-86.93	103.30	68.14	35.16	2.938		
5,150.00	5,148.79	5,149.83	5,147.38	17.71	17.83	166.63	1.39	-87.39	104.48	68.97	35.51	2.942		
5,200.00	5,198.79	5,199.88	5,197.41	17.88	18.00	171.92	2.29	-87.83	105.71	69.85	35.86	2.948		
5,250.00	5,248.78	5,249.90	5,247.42	18.06	18.17	175.32	3.16	-88.25	106.96	70.75	36.21	2.954		
5,300.00	5,298.78	5,299.89	5,297.40	18.24	18.35	178.30	4.03	-88.67	108.21	71.64	36.56	2.959		
5,350.00	5,348.78	5,349.87	5,347.37	18.41	18.52	175.72	4.90	-89.07	109.48	72.56	36.91	2.966		
5,400.00	5,398.77	5,399.83	5,397.33	18.59	18.70	173.49	5.76	-89.49	110.80	73.54	37.26	2.973		
5,450.00	5,448.77	5,449.73	5,447.22	18.77	18.87	172.23	6.62	-89.92	112.13	74.52	37.62	2.981		
5,500.00	5,498.76	5,499.63	5,497.11	18.95	19.05	170.18	7.44	-90.41	113.46	75.49	37.97	2.988		
5,550.00	5,548.76	5,549.77	5,547.24	19.12	19.22	166.63	8.21	-90.89	114.71	76.39	38.32	2.994		
5,600.00	5,598.76	5,599.86	5,597.32	19.30	19.40	161.79	8.89	-91.33	115.84	77.17	38.67	2.996		
5,650.00	5,648.76	5,649.78	5,647.24	19.48	19.57	153.87	9.53	-91.79	116.87	77.85	39.02	2.995		
5,700.00	5,698.75	5,699.81	5,697.26	19.65	19.75	168.98	10.15	-92.27	117.89	78.51	39.38	2.994		
5,750.00	5,748.75	5,749.95	5,747.39	19.83	19.93	-177.42	10.75	-92.70	119.05	79.32	39.73	2.996		
5,800.00	5,798.75	5,799.97	5,797.41	20.01	20.10	-173.73	11.36	-93.07	120.32	80.24	40.08	3.002		
5,850.00	5,848.74	5,849.94	5,847.37	20.19	20.28	-171.18	12.02	-93.43	121.63	81.20	40.44	3.008		
5,900.00	5,898.73	5,899.96	5,897.39	20.36	20.45	-168.46	12.71	-93.77	122.99	82.20	40.79	3.015		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Well Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,950.00	5,948.73	5,950.00	5,947.42	20.54	20.63	-166.67	13.34	-94.11	124.36	83.22	41.14	3.023	
6,000.00	5,998.72	5,999.85	5,997.27	20.72	20.80	-166.62	13.93	-94.48	125.69	84.20	41.49	3.029	
6,050.00	6,048.72	6,049.79	6,047.20	20.89	20.98	-168.99	14.45	-94.93	126.99	85.15	41.84	3.035	
6,100.00	6,098.71	6,100.13	6,097.54	21.07	21.16	-174.30	14.65	-95.42	128.25	86.05	42.20	3.039	
6,150.00	6,148.70	6,150.50	6,147.91	21.25	21.34	-178.03	14.38	-95.93	129.41	86.86	42.55	3.041	
6,200.00	6,198.70	6,200.93	6,198.33	21.43	21.51	178.94	13.70	-96.42	130.42	87.51	42.91	3.039	
6,250.00	6,248.69	6,251.07	6,248.46	21.60	21.69	177.71	12.68	-96.87	131.30	88.04	43.26	3.035	
6,300.00	6,298.68	6,301.01	6,298.39	21.78	21.87	176.84	11.59	-97.35	132.19	88.57	43.62	3.031	
6,350.00	6,348.68	6,351.05	6,348.41	21.96	22.04	172.98	10.49	-97.84	133.10	89.13	43.97	3.027	
6,400.00	6,398.67	6,401.12	6,398.46	22.14	22.22	169.24	9.42	-98.28	134.04	89.72	44.32	3.024	
6,450.00	6,448.66	6,450.45	6,447.78	22.31	22.39	163.96	8.28	-98.84	135.08	90.41	44.67	3.024	
6,500.00	6,498.66	6,499.69	6,497.00	22.49	22.56	159.12	6.96	-99.72	136.38	91.35	45.02	3.029	
6,550.00	6,548.65	6,548.68	6,545.95	22.67	22.74	155.34	5.59	-100.94	138.01	92.64	45.37	3.042	
6,600.00	6,598.64	6,597.97	6,595.19	22.85	22.91	152.96	4.22	-102.50	140.02	94.30	45.72	3.063	
6,650.00	6,648.63	6,648.11	6,645.28	23.03	23.09	151.44	2.82	-104.14	142.07	95.99	46.08	3.083	
6,700.00	6,698.62	6,698.17	6,695.31	23.21	23.27	149.33	1.43	-105.70	144.07	97.64	46.43	3.103	
6,750.00	6,748.61	6,748.15	6,745.24	23.38	23.45	147.20	0.13	-107.22	146.09	99.30	46.79	3.122	
6,800.00	6,798.60	6,798.07	6,795.13	23.56	23.63	144.06	-1.10	-108.72	148.09	100.95	47.14	3.141	
6,850.00	6,848.59	6,847.97	6,844.99	23.74	23.81	140.62	-2.35	-110.24	150.05	102.55	47.50	3.159	
6,900.00	6,898.58	6,897.94	6,894.92	23.92	23.99	138.38	-3.63	-111.78	152.03	104.18	47.85	3.177	
6,950.00	6,948.57	6,947.93	6,944.87	24.10	24.16	137.79	-4.93	-113.31	154.05	105.84	48.21	3.195	
7,000.00	6,998.55	6,998.32	6,995.22	24.28	24.34	140.33	-6.28	-114.78	156.10	107.53	48.57	3.214	
7,050.00	7,048.54	7,048.70	7,045.56	24.46	24.52	141.92	-7.69	-116.11	158.11	109.18	48.93	3.231	
7,100.00	7,098.52	7,099.03	7,095.86	24.63	24.70	142.82	-9.07	-117.32	160.03	110.74	49.29	3.247	
7,150.00	7,148.50	7,149.29	7,146.09	24.81	24.88	141.35	-10.38	-118.39	161.87	112.22	49.65	3.260	
7,200.00	7,198.48	7,199.41	7,196.18	24.99	25.06	138.60	-11.70	-119.40	163.67	113.67	50.00	3.273	
7,250.00	7,248.46	7,249.76	7,246.51	25.17	25.24	138.30	-13.07	-120.35	165.44	115.08	50.36	3.285	
7,300.00	7,298.44	7,300.29	7,297.00	25.35	25.42	138.53	-14.53	-121.16	167.06	116.34	50.72	3.294	
7,350.00	7,348.42	7,349.86	7,346.55	25.53	25.59	143.50	-15.97	-121.90	168.63	117.55	51.08	3.302	
7,400.00	7,398.40	7,399.14	7,395.80	25.71	25.77	149.15	-17.25	-122.80	170.40	118.98	51.43	3.314	
7,450.00	7,448.38	7,447.75	7,444.38	25.89	25.94	153.08	-18.40	-123.95	172.59	120.81	51.77	3.334	
7,500.00	7,498.35	7,496.30	7,492.90	26.07	26.12	156.26	-19.51	-125.49	175.35	123.24	52.11	3.365	
7,550.00	7,548.32	7,545.77	7,542.32	26.24	26.29	158.76	-20.72	-127.35	178.60	126.14	52.46	3.404	
7,600.00	7,598.29	7,596.55	7,593.05	26.42	26.48	159.71	-22.02	-129.18	181.88	129.05	52.83	3.443	
7,650.00	7,648.27	7,647.37	7,643.83	26.60	26.66	159.84	-23.31	-130.75	184.59	131.39	53.20	3.470	
7,700.00	7,698.26	7,696.98	7,693.41	26.78	26.84	151.78	-24.37	-132.13	186.71	133.17	53.55	3.487	
7,750.00	7,748.26	7,746.11	7,742.51	26.95	27.01	63.84	-24.78	-133.59	188.37	134.48	53.89	3.495	
7,800.00	7,798.25	7,796.10	7,792.48	27.13	27.19	15.16	-24.87	-135.17	189.49	135.25	54.24	3.493	
7,850.00	7,848.24	7,846.27	7,842.63	27.30	27.37	8.15	-25.24	-136.75	189.96	135.37	54.59	3.480	
7,900.00	7,898.22	7,897.31	7,893.63	27.47	27.56	4.27	-25.91	-138.24	189.84	134.89	54.95	3.455	
7,950.00	7,948.19	7,948.30	7,944.61	27.63	27.74	3.97	-26.87	-139.48	189.17	133.86	55.31	3.420	
8,000.00	7,998.16	7,999.25	7,995.54	27.80	27.92	12.15	-27.36	-140.40	188.26	132.60	55.66	3.382	
8,050.00	8,048.13	8,049.96	8,046.24	27.97	28.10	23.07	-27.16	-140.97	187.27	131.25	56.02	3.343	
8,100.00	8,098.11	8,100.38	8,096.66	28.14	28.28	37.88	-26.99	-141.39	186.39	130.03	56.37	3.307	
8,150.00	8,148.09	8,150.60	8,146.88	28.32	28.46	49.65	-26.96	-141.74	185.70	128.99	56.72	3.274	
8,200.00	8,198.07	8,200.73	8,197.01	28.49	28.63	61.03	-27.05	-142.07	185.26	128.19	57.07	3.246	
8,250.00	8,248.06	8,250.96	8,247.24	28.67	28.81	76.16	-27.24	-142.36	185.09	127.67	57.42	3.223	
8,251.51	8,249.57	8,252.48	8,248.76	28.67	28.82	76.80	-27.24	-142.36	185.09	127.66	57.44	3.223	
8,300.00	8,298.05	8,301.18	8,297.46	28.84	28.99	105.09	-27.49	-142.59	185.25	127.47	57.78	3.206	
8,350.00	8,348.04	8,350.82	8,347.10	29.02	29.17	156.86	-27.75	-142.84	185.94	127.81	58.13	3.198	
8,400.00	8,398.03	8,400.60	8,396.87	29.20	29.34	173.26	-27.98	-143.18	187.28	128.79	58.49	3.202	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-127H - 127H Lateral - 127H Lateral (AsDrilled)												Offset Site Error:	0.00 usft
Survey Program: 123-MWD, 10079-MWD+IFR1+MS, 18488-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,450.00	8,448.02	8,451.01	8,447.29	29.37	29.52	170.50	-27.81	-143.41	188.82	129.98	58.84	3.209	
8,500.00	8,498.00	8,501.65	8,497.92	29.55	29.70	164.97	-27.14	-143.42	190.35	131.16	59.19	3.216	
8,550.00	8,547.98	8,552.68	8,548.95	29.73	29.87	155.60	-26.53	-143.19	191.47	131.93	59.54	3.216	
8,600.00	8,597.96	8,601.03	8,597.30	29.91	30.04	146.87	-26.18	-142.94	192.35	132.47	59.89	3.212	
8,650.00	8,647.95	8,647.42	8,643.68	30.09	30.20	138.57	-26.25	-143.55	193.95	133.74	60.22	3.221	
8,700.00	8,697.93	8,695.82	8,692.05	30.27	30.37	143.30	-26.70	-145.02	196.35	135.79	60.56	3.242	
8,750.00	8,747.91	8,745.57	8,741.77	30.45	30.55	150.87	-27.29	-146.67	199.05	138.13	60.91	3.268	
8,800.00	8,797.89	8,797.03	8,793.20	30.62	30.73	175.21	-28.02	-148.28	201.86	140.58	61.28	3.294	
8,850.00	8,847.86	8,849.09	8,845.25	30.80	30.92	-174.33	-28.89	-149.39	204.44	142.79	61.66	3.316	
8,900.00	8,897.82	8,900.90	8,897.04	30.98	31.10	176.97	-30.03	-150.02	206.97	144.95	62.02	3.337	
8,950.00	8,847.75	8,952.40	8,948.51	31.16	31.28	172.87	-31.54	-150.25	209.42	147.04	62.38	3.357	
9,000.00	8,997.71	9,002.90	8,998.98	31.34	31.46	170.32	-33.31	-150.29	211.24	148.51	62.73	3.368	
9,050.00	9,047.68	9,052.12	9,048.17	31.51	31.63	170.61	-35.18	-150.29	212.55	149.47	63.08	3.370	
9,100.00	9,097.67	9,099.72	9,095.75	31.69	31.80	173.63	-36.46	-150.64	214.08	150.65	63.43	3.375	
9,150.00	9,147.65	9,147.14	9,143.16	31.87	31.97	170.03	-37.05	-151.43	216.06	152.29	63.76	3.388	
9,200.00	9,197.63	9,194.35	9,190.35	32.05	32.14	166.73	-36.86	-152.69	218.73	154.64	64.09	3.413	
9,250.00	9,247.61	9,243.05	9,239.01	32.23	32.31	178.40	-36.00	-154.40	221.88	157.45	64.43	3.444	
9,300.00	9,297.60	9,292.67	9,288.59	32.40	32.49	-169.15	-34.96	-156.23	225.01	160.23	64.78	3.474	
9,350.00	9,347.59	9,343.41	9,339.29	32.58	32.67	-162.90	-34.01	-158.07	228.11	162.97	65.14	3.502	
9,400.00	9,397.57	9,394.52	9,390.37	32.76	32.85	-159.81	-33.64	-159.76	231.03	165.52	65.51	3.527	
9,450.00	9,447.55	9,444.57	9,440.39	32.93	33.03	-159.99	-33.85	-161.35	233.97	168.11	65.86	3.552	
9,500.00	9,497.52	9,494.57	9,490.36	33.11	33.21	-156.85	-34.61	-163.00	236.97	170.75	66.22	3.579	
9,550.00	9,547.50	9,544.44	9,540.19	33.29	33.39	-149.39	-35.46	-164.64	239.68	173.11	66.57	3.600	
9,600.00	9,597.49	9,594.46	9,590.18	33.46	33.57	-151.45	-36.11	-166.27	242.14	175.22	66.93	3.618	
9,650.00	9,647.48	9,644.77	9,640.47	33.64	33.75	-158.26	-36.40	-167.80	244.47	177.19	67.28	3.633	
9,700.00	9,697.47	9,695.48	9,691.16	33.81	33.93	-170.44	-36.39	-169.20	246.70	179.05	67.65	3.647	
9,750.00	9,747.47	9,746.62	9,742.28	33.99	34.11	179.81	-36.83	-170.45	248.79	180.78	68.01	3.658	
9,800.00	9,797.46	9,797.92	9,793.56	34.17	34.30	177.46	-37.65	-171.49	250.63	182.25	68.38	3.665	
9,850.00	9,847.45	9,849.31	9,844.94	34.35	34.48	173.09	-38.25	-172.22	252.14	183.40	68.74	3.668	
9,900.00	9,897.44	9,901.16	9,896.79	34.53	34.66	164.42	-38.59	-172.59	253.27	184.17	69.10	3.665	
9,950.00	9,947.44	9,952.76	9,948.40	34.70	34.84	155.20	-38.68	-172.54	253.94	184.49	69.45	3.656	
10,000.00	9,997.43	10,002.97	9,998.60	34.88	35.00	143.75	-38.71	-172.32	254.30	184.50	69.80	3.643	
10,050.00	10,047.43	10,052.34	10,047.97	35.06	35.14	135.52	-38.86	-172.23	254.62	184.50	70.11	3.631	
10,100.00	10,097.43	10,095.77	10,091.39	35.24	35.20	124.83	-39.49	-172.38	255.06	184.73	70.33	3.627	
10,150.00	10,147.43	10,132.88	10,128.45	35.42	35.27	156.29	-38.99	-174.30	257.97	187.60	70.37	3.666	
10,200.00	10,197.42	10,177.17	10,172.45	35.60	35.44	170.49	-35.34	-177.54	262.78	192.33	70.45	3.730	
10,250.00	10,247.41	10,215.00	10,209.62	35.77	35.55	171.05	-29.14	-180.83	269.29	198.97	70.32	3.830	
10,300.00	10,297.40	10,250.27	10,243.68	35.95	35.64	171.58	-21.09	-185.06	278.50	208.50	70.00	3.978	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,878.24	2,877.46	2,875.36	2,874.78	9.77	9.74	-36.18	1.36	64.50	77.91	58.42	19.49	3.998	CC
2,900.00	2,899.21	2,897.01	2,896.42	9.84	9.82	-38.76	1.45	65.26	77.95	58.32	19.64	3.970	ES
2,950.00	2,949.18	2,946.78	2,946.15	10.02	9.99	-46.40	1.58	67.11	78.50	58.51	19.98	3.928	
3,000.00	2,999.15	2,996.65	2,995.98	10.19	10.17	-56.96	1.44	69.09	79.51	59.18	20.33	3.911	
3,050.00	3,049.13	3,046.47	3,045.75	10.36	10.34	-65.80	0.95	71.17	80.92	60.25	20.68	3.914	
3,100.00	3,099.11	3,096.16	3,095.39	10.53	10.52	-67.08	0.34	73.41	82.54	61.52	21.02	3.926	
3,150.00	3,149.09	3,146.01	3,145.18	10.71	10.70	-76.15	-0.34	75.81	84.33	62.95	21.37	3.946	
3,200.00	3,199.08	3,196.01	3,195.12	10.88	10.87	-119.52	-1.06	78.21	86.81	65.09	21.73	3.996	
3,500.00	3,498.95	3,498.29	3,497.14	11.93	11.95	-45.07	-5.63	89.44	95.33	71.47	23.86	3.995	
3,550.00	3,548.93	3,548.10	3,546.93	12.11	12.12	-36.55	-6.39	90.55	95.38	71.16	24.21	3.939	
3,600.00	3,598.91	3,598.00	3,596.81	12.28	12.30	-29.91	-7.11	91.75	95.43	70.87	24.56	3.885	
3,650.00	3,648.90	3,647.99	3,646.78	12.45	12.48	-25.95	-7.95	92.97	95.42	70.50	24.91	3.830	
3,700.00	3,698.88	3,698.05	3,696.81	12.63	12.66	-26.08	-8.89	94.21	95.34	70.08	25.27	3.774	
3,750.00	3,748.86	3,748.14	3,746.88	12.80	12.83	-28.29	-9.84	95.40	95.24	69.63	25.62	3.718	
3,768.66	3,767.52	3,766.80	3,765.54	12.86	12.90	-28.56	-10.18	95.83	95.22	69.47	25.75	3.698	
3,800.00	3,798.85	3,798.13	3,796.85	12.97	13.01	-29.21	-10.76	96.56	95.26	69.30	25.97	3.669	
3,850.00	3,848.84	3,848.09	3,846.79	13.15	13.19	-30.60	-11.68	97.72	95.65	69.33	26.32	3.634	
3,900.00	3,898.84	3,897.84	3,896.51	13.32	13.37	-25.06	-12.53	98.96	96.30	69.63	26.67	3.611	
3,950.00	3,948.84	3,947.67	3,946.32	13.50	13.54	-20.07	-13.29	100.30	97.14	70.12	27.02	3.595	
4,000.00	3,998.84	3,997.84	3,996.47	13.67	13.72	-24.05	-14.07	101.63	97.99	70.62	27.37	3.580	
4,050.00	4,048.84	4,047.94	4,046.54	13.84	13.90	-25.08	-14.88	102.88	98.77	71.04	27.72	3.562	
4,100.00	4,098.83	4,097.91	4,096.50	14.02	14.08	-21.34	-15.64	104.11	99.53	71.46	28.08	3.545	
4,150.00	4,148.83	4,147.80	4,146.37	14.19	14.26	-20.18	-16.32	105.34	100.31	71.88	28.43	3.529	
4,200.00	4,198.83	4,197.61	4,196.16	14.37	14.44	-20.84	-17.02	106.66	101.13	72.35	28.78	3.514	
4,250.00	4,248.83	4,247.62	4,246.14	14.54	14.61	-24.46	-17.74	108.03	101.98	72.85	29.13	3.501	
4,300.00	4,298.82	4,297.71	4,296.20	14.72	14.79	-29.22	-18.46	109.37	102.81	73.32	29.49	3.487	
4,350.00	4,348.82	4,347.55	4,346.02	14.89	14.97	-26.42	-19.13	110.70	103.65	73.82	29.84	3.474	
4,400.00	4,398.82	4,397.36	4,395.81	15.07	15.15	-23.20	-19.74	112.12	104.58	74.39	30.19	3.464	
4,450.00	4,448.82	4,447.25	4,445.67	15.25	15.33	-21.62	-20.33	113.60	105.61	75.07	30.54	3.458	
4,500.00	4,498.81	4,497.12	4,495.52	15.42	15.51	-16.01	-20.93	115.13	106.78	75.88	30.89	3.456	
4,550.00	4,548.81	4,546.96	4,545.33	15.60	15.69	-2.10	-21.61	116.73	108.02	76.77	31.24	3.457	
4,600.00	4,598.81	4,596.80	4,595.13	15.77	15.86	0.87	-22.36	118.38	109.31	77.72	31.60	3.460	
4,650.00	4,648.81	4,646.64	4,644.94	15.95	16.04	-4.85	-23.10	120.10	110.63	78.69	31.95	3.463	
4,700.00	4,698.81	4,696.56	4,694.82	16.12	16.22	-10.72	-23.82	121.88	111.99	79.69	32.30	3.467	
4,750.00	4,748.81	4,746.52	4,744.74	16.30	16.40	-18.63	-24.51	123.66	113.41	80.76	32.65	3.473	
4,800.00	4,798.81	4,796.55	4,794.74	16.47	16.58	-14.30	-25.18	125.44	114.85	81.84	33.01	3.479	
4,850.00	4,848.80	4,846.60	4,844.75	16.65	16.76	-10.32	-25.79	127.20	116.20	82.83	33.36	3.483	
4,900.00	4,898.80	4,896.44	4,894.56	16.82	16.94	-17.51	-26.44	128.96	117.55	83.84	33.72	3.487	
4,950.00	4,948.80	4,946.28	4,944.36	17.00	17.12	-24.00	-27.21	130.78	118.98	84.92	34.07	3.493	
5,000.00	4,998.80	4,996.14	4,994.18	17.18	17.30	-28.78	-28.02	132.64	120.48	86.06	34.42	3.500	
5,050.00	5,048.80	5,045.98	5,043.97	17.35	17.48	-30.91	-28.84	134.56	122.05	87.27	34.77	3.510	
5,100.00	5,098.79	5,095.77	5,093.72	17.53	17.66	-30.05	-29.61	136.54	123.65	88.52	35.13	3.520	
5,150.00	5,148.79	5,145.71	5,143.61	17.71	17.84	-26.23	-30.35	138.59	125.26	89.78	35.48	3.530	
5,200.00	5,198.79	5,195.77	5,193.62	17.88	18.02	-21.18	-31.16	140.61	126.78	90.95	35.84	3.538	
5,250.00	5,248.78	5,245.68	5,243.48	18.06	18.20	-17.94	-32.04	142.61	128.26	92.06	36.19	3.544	
5,300.00	5,298.78	5,295.53	5,293.28	18.24	18.38	-15.08	-32.94	144.66	129.76	93.22	36.55	3.551	
5,350.00	5,348.78	5,346.76	5,344.47	18.41	18.57	-17.84	-33.73	146.57	131.06	94.15	36.92	3.550	
5,400.00	5,398.77	5,396.04	5,393.73	18.59	18.75	-20.39	-34.22	147.96	131.80	94.52	37.28	3.535	
5,450.00	5,448.77	5,446.65	5,444.33	18.77	18.93	-22.04	-34.52	149.00	132.22	94.58	37.64	3.513	
5,500.00	5,498.76	5,496.04	5,493.72	18.95	19.11	-24.50	-34.73	149.82	132.47	94.47	38.00	3.486	
5,550.00	5,548.76	5,546.02	5,543.69	19.12	19.29	-28.47	-34.87	150.59	132.74	94.38	38.36	3.461	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,600.00	5,598.76	5,599.21	5,596.87	19.30	19.47	-33.72	-34.96	151.35	133.06	94.35	38.71	3.437	
5,650.00	5,648.76	5,649.60	5,647.26	19.48	19.65	-42.04	-35.01	151.99	133.36	94.29	39.07	3.413	
5,700.00	5,698.75	5,699.15	5,696.80	19.65	19.83	-27.31	-35.04	152.59	133.65	94.23	39.42	3.390	
5,750.00	5,748.75	5,748.40	5,746.04	19.83	20.00	-14.04	-35.03	153.45	133.99	94.22	39.77	3.369	
5,800.00	5,798.75	5,797.99	5,795.62	20.01	20.18	-10.65	-34.97	154.54	134.39	94.26	40.13	3.349	
5,850.00	5,848.74	5,847.64	5,845.26	20.19	20.36	-8.42	-34.84	155.76	134.86	94.39	40.48	3.332	
5,900.00	5,898.73	5,897.81	5,895.41	20.36	20.54	-6.03	-34.65	157.03	135.32	94.48	40.83	3.314	
5,950.00	5,948.73	5,947.77	5,945.35	20.54	20.72	-4.53	-34.41	158.25	135.67	94.48	41.19	3.294	
6,000.00	5,998.72	5,997.08	5,994.65	20.72	20.89	-4.72	-34.20	159.61	136.24	94.70	41.54	3.280	
6,050.00	6,048.72	6,046.61	6,044.15	20.89	21.07	-7.29	-34.05	161.20	137.13	95.24	41.89	3.274	
6,100.00	6,098.71	6,096.46	6,093.98	21.07	21.25	-12.69	-33.91	162.89	138.09	95.85	42.24	3.269	
6,150.00	6,148.70	6,146.16	6,143.64	21.25	21.43	-16.36	-33.78	164.64	139.09	96.50	42.59	3.265	
6,200.00	6,198.70	6,195.74	6,193.18	21.43	21.61	-19.19	-33.69	166.52	140.24	97.29	42.95	3.265	
6,250.00	6,248.69	6,246.03	6,243.43	21.60	21.79	-20.08	-33.65	168.48	141.44	98.14	43.31	3.266	
6,300.00	6,298.68	6,296.56	6,293.94	21.78	21.97	-20.57	-33.68	170.26	142.47	98.80	43.67	3.263	
6,350.00	6,348.68	6,346.45	6,343.80	21.96	22.15	-24.04	-33.77	171.93	143.40	99.38	44.02	3.257	
6,400.00	6,398.67	6,396.31	6,393.62	22.14	22.33	-27.45	-33.88	173.65	144.35	99.97	44.38	3.253	
6,450.00	6,448.66	6,446.16	6,443.44	22.31	22.51	-32.42	-34.01	175.42	145.37	100.64	44.73	3.250	
6,500.00	6,498.66	6,496.11	6,493.37	22.49	22.69	-36.87	-34.17	177.23	146.47	101.38	45.09	3.248	
6,550.00	6,548.65	6,546.29	6,543.51	22.67	22.87	-40.23	-34.43	179.00	147.53	102.08	45.45	3.246	
6,600.00	6,598.64	6,596.45	6,593.64	22.85	23.05	-42.16	-34.80	180.71	148.52	102.71	45.81	3.242	
6,650.00	6,648.63	6,646.60	6,643.76	23.03	23.23	-43.24	-35.19	182.37	149.47	103.30	46.17	3.238	
6,700.00	6,698.62	6,696.72	6,693.86	23.21	23.41	-44.96	-35.58	183.98	150.38	103.85	46.53	3.232	
6,750.00	6,748.61	6,746.83	6,743.94	23.38	23.59	-46.79	-35.94	185.54	151.23	104.35	46.89	3.226	
6,800.00	6,798.60	6,796.65	6,793.73	23.56	23.77	-49.71	-36.30	187.10	152.11	104.87	47.24	3.220	
6,850.00	6,848.59	6,846.40	6,843.46	23.74	23.95	-52.89	-36.73	188.73	153.13	105.54	47.60	3.217	
6,900.00	6,898.58	6,896.15	6,893.17	23.92	24.13	-54.88	-37.25	190.44	154.25	106.30	47.95	3.217	
6,950.00	6,948.57	6,946.02	6,943.01	24.10	24.31	-55.27	-37.83	192.22	155.41	107.10	48.31	3.217	
7,000.00	6,998.55	6,996.52	6,993.47	24.28	24.50	-52.54	-38.46	193.95	156.40	107.73	48.67	3.213	
7,050.00	7,048.54	7,046.96	7,043.89	24.46	24.68	-50.77	-39.11	195.52	157.14	108.11	49.03	3.205	
7,100.00	7,098.52	7,097.30	7,094.20	24.63	24.86	-49.70	-39.78	196.96	157.73	108.34	49.39	3.193	
7,150.00	7,148.50	7,147.65	7,144.53	24.81	25.04	-51.04	-40.48	198.29	158.19	108.43	49.75	3.179	
7,200.00	7,198.48	7,197.93	7,194.79	24.99	25.22	-53.71	-41.20	199.51	158.53	108.41	50.11	3.163	
7,250.00	7,248.46	7,248.07	7,244.91	25.17	25.40	-53.99	-41.92	200.67	158.80	108.32	50.47	3.146	
7,300.00	7,298.44	7,298.37	7,295.19	25.35	25.58	-53.73	-42.62	201.77	159.00	108.17	50.83	3.128	
7,350.00	7,348.42	7,348.82	7,345.63	25.53	25.76	-48.68	-43.35	202.74	159.06	107.86	51.19	3.107	
7,400.00	7,398.40	7,399.42	7,396.21	25.71	25.94	-42.89	-44.08	203.56	158.91	107.36	51.55	3.082	
7,450.00	7,448.38	7,450.08	7,446.87	25.89	26.12	-38.84	-44.68	204.17	158.43	106.52	51.91	3.052	
7,500.00	7,498.35	7,499.98	7,496.76	26.07	26.30	-35.57	-45.20	204.66	157.67	105.40	52.27	3.016	
7,550.00	7,548.32	7,549.70	7,546.48	26.24	26.48	-32.95	-45.73	205.21	156.76	104.14	52.63	2.979	
7,600.00	7,598.29	7,598.50	7,595.27	26.42	26.65	-31.92	-46.05	205.98	155.99	103.01	52.98	2.944	
7,650.00	7,648.27	7,649.29	7,646.05	26.60	26.83	-31.75	-46.03	207.11	155.89	102.57	53.33	2.923	
7,700.00	7,698.26	7,699.14	7,695.88	26.78	27.00	-39.86	-45.66	208.61	156.61	102.94	53.67	2.918 SF	
7,750.00	7,748.26	7,749.46	7,745.15	26.95	27.18	-128.15	-44.63	210.35	158.24	104.23	54.01	2.930	
7,800.00	7,798.25	7,799.17	7,795.19	27.13	27.35	-177.46	-42.76	212.25	160.72	106.36	54.36	2.957	
7,850.00	7,848.24	7,849.11	7,845.66	27.30	27.53	174.98	-40.71	214.00	163.63	108.91	54.72	2.990	
7,900.00	7,898.22	7,899.07	7,895.56	27.47	27.71	170.76	-38.83	215.43	166.64	111.56	55.07	3.026	
7,950.00	7,948.19	7,949.04	7,944.50	27.63	27.89	170.43	-37.37	216.56	169.60	114.17	55.43	3.060	
8,000.00	7,998.16	7,999.57	7,994.01	27.80	28.06	178.48	-36.37	217.55	172.42	116.65	55.77	3.092	
8,050.00	8,048.13	8,049.52	8,044.93	27.97	28.24	-170.99	-35.67	218.80	175.41	119.30	56.11	3.126	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Well Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,100.00	8,098.11	8,092.64	8,089.02	28.14	28.40	-156.64	-35.22	220.56	178.83	122.42	56.41	3.170	
8,150.00	8,148.09	8,138.11	8,134.39	28.32	28.57	-145.36	-34.92	223.40	183.22	126.55	56.68	3.233	
8,200.00	8,198.07	8,187.50	8,183.64	28.49	28.75	-134.41	-34.83	227.23	188.09	131.07	57.02	3.299	
8,250.00	8,248.06	8,237.72	8,233.71	28.67	28.93	-119.60	-35.07	231.09	192.56	135.18	57.38	3.356	
8,300.00	8,298.05	8,288.94	8,284.79	28.84	29.12	-90.84	-35.49	234.80	196.38	138.61	57.77	3.399	
8,350.00	8,348.04	8,339.65	8,335.40	29.02	29.30	-39.11	-35.92	238.14	199.28	141.14	58.14	3.428	
8,400.00	8,398.03	8,389.01	8,384.64	29.20	29.48	-22.60	-36.32	241.41	201.58	143.09	58.49	3.447	
8,450.00	8,448.02	8,438.90	8,434.41	29.37	29.67	-25.38	-36.71	244.83	203.75	144.91	58.84	3.463	
8,500.00	8,498.00	8,489.44	8,484.84	29.55	29.85	-31.17	-37.09	248.20	205.75	146.54	59.21	3.475	
8,550.00	8,547.98	8,540.23	8,535.53	29.73	30.04	-40.86	-37.49	251.42	207.79	148.21	59.58	3.487	
8,600.00	8,597.96	8,591.17	8,586.38	29.91	30.22	-49.88	-38.02	254.43	209.82	149.86	59.96	3.500	
8,650.00	8,647.95	8,641.90	8,637.03	30.09	30.41	-58.36	-38.53	257.21	211.78	151.45	60.33	3.511	
8,700.00	8,697.93	8,692.59	8,687.65	30.27	30.59	-53.82	-38.74	259.77	213.56	152.87	60.69	3.519	
8,750.00	8,747.91	8,743.10	8,738.10	30.45	30.78	-46.40	-38.90	262.17	215.01	153.95	61.06	3.521	
8,800.00	8,797.89	8,793.02	8,787.97	30.62	30.96	-22.02	-39.19	264.46	216.03	154.61	61.42	3.517	
8,850.00	8,847.86	8,841.47	8,836.35	30.80	31.14	-11.18	-39.54	266.91	216.86	155.11	61.75	3.512	
8,900.00	8,897.82	8,892.18	8,886.98	30.98	31.32	-19.45	-40.01	269.75	217.55	155.43	62.12	3.502	
8,950.00	8,947.75	8,946.13	8,940.88	31.16	31.52	-23.14	-40.93	272.07	217.28	154.76	62.52	3.475	
9,000.00	8,997.71	8,997.70	8,992.41	31.34	31.70	-25.15	-42.19	273.60	216.70	153.82	62.89	3.446	
9,050.00	9,047.68	9,048.45	9,043.12	31.51	31.88	-24.23	-43.53	274.91	216.37	153.12	63.25	3.421	
9,100.00	9,097.67	9,100.95	9,095.58	31.69	32.07	-20.59	-45.22	275.91	215.89	152.28	63.61	3.394	
9,150.00	9,147.65	9,152.87	9,147.46	31.87	32.25	-23.58	-47.39	276.34	214.92	150.95	63.97	3.360	
9,200.00	9,197.63	9,202.40	9,196.94	32.05	32.42	-26.53	-49.52	276.64	213.80	149.49	64.32	3.324	
9,250.00	9,247.61	9,250.82	9,245.32	32.23	32.60	-14.68	-51.39	277.05	212.86	148.19	64.67	3.292	
9,289.07	9,286.67	9,287.25	9,281.74	32.37	32.72	-4.98	-52.35	277.75	212.61	147.68	64.93	3.274	
9,300.00	9,297.60	9,297.45	9,291.93	32.40	32.76	-2.13	-52.53	278.02	212.64	147.64	65.01	3.271	
9,350.00	9,347.59	9,346.41	9,340.86	32.58	32.94	4.17	-52.99	279.64	213.05	147.70	65.35	3.260	
9,400.00	9,397.57	9,398.39	9,392.81	32.76	33.12	7.60	-53.72	281.09	213.10	147.38	65.72	3.243	
9,450.00	9,447.55	9,447.82	9,442.22	32.93	33.30	7.97	-54.60	282.23	212.72	146.65	66.07	3.220	
9,486.29	9,483.82	9,482.85	9,477.23	33.06	33.43	10.61	-54.89	283.23	212.63	146.31	66.32	3.206	
9,500.00	9,497.52	9,496.08	9,490.46	33.11	33.47	11.65	-54.92	283.66	212.61	146.20	66.41	3.201	
9,550.00	9,547.50	9,546.77	9,541.12	33.29	33.58	19.64	-54.95	285.32	212.96	146.27	66.70	3.193	
9,600.00	9,597.49	9,598.08	9,592.41	33.46	33.68	18.17	-55.41	286.73	213.28	146.31	66.97	3.185	
9,650.00	9,647.48	9,647.39	9,641.71	33.64	33.68	11.77	-55.79	288.01	213.65	146.51	67.14	3.182	
9,700.00	9,697.47	9,697.26	9,691.55	33.81	33.69	-0.29	-55.69	289.42	214.18	146.86	67.32	3.181	
9,750.00	9,747.47	9,749.16	9,743.44	33.99	33.70	-9.88	-55.73	290.63	214.42	146.91	67.51	3.176	
9,800.00	9,797.46	9,800.32	9,794.59	34.17	33.70	-11.95	-56.13	291.42	214.26	146.57	67.69	3.165	
9,850.00	9,847.45	9,850.56	9,844.83	34.35	33.71	-16.18	-56.27	292.08	214.05	146.17	67.88	3.154	
9,900.00	9,897.44	9,901.01	9,895.27	34.53	33.72	-24.92	-56.10	292.64	213.84	145.78	68.06	3.142	
9,950.00	9,947.44	9,951.56	9,945.82	34.70	33.73	-34.35	-55.85	293.08	213.62	145.36	68.25	3.130	
9,990.28	9,987.72	9,991.46	9,985.71	34.85	33.73	-43.56	-55.51	293.36	213.49	145.08	68.41	3.121	
10,000.00	9,997.43	10,000.93	9,995.18	34.88	33.74	-46.11	-55.34	293.45	213.50	145.05	68.45	3.119	
10,050.00	10,047.43	10,049.41	10,043.63	35.06	33.75	-54.89	-53.88	294.02	213.82	145.18	68.65	3.115	
10,100.00	10,097.43	10,096.95	10,091.07	35.24	33.78	-66.36	-50.95	294.94	214.80	145.97	68.84	3.120	
10,150.00	10,147.43	10,145.46	10,139.28	35.42	33.82	-36.45	-45.70	296.12	216.26	147.24	69.03	3.133	
10,200.00	10,197.42	10,193.58	10,186.95	35.60	33.84	-24.74	-39.29	297.23	217.66	148.45	69.21	3.145	
10,250.00	10,247.41	10,237.46	10,230.12	35.77	33.88	-27.44	-31.60	298.80	219.99	150.67	69.32	3.174	
10,300.00	10,297.40	10,280.63	10,272.03	35.95	33.94	-31.06	-21.47	300.87	223.74	154.38	69.36	3.226	
10,350.00	10,347.38	10,321.90	10,311.43	36.13	34.01	-36.40	-9.47	303.38	229.46	160.20	69.26	3.313	
10,400.00	10,397.37	10,361.00	10,347.92	36.31	34.07	-44.19	4.28	306.13	237.56	168.58	68.98	3.444	
10,450.00	10,447.35	10,398.40	10,381.85	36.49	34.14	-52.94	19.70	309.07	248.34	179.84	68.50	3.625	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda North 25 State 107H,127H,128H,168H - RN25-128H - 128H Lateral - 128 H Lateral AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 154-MWD, 9597-MWD+IFR1+MS, 18525-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,500.00	10,497.32	10,434.03	10,413.23	36.67	34.20	-59.31	36.30	312.14	262.10	194.27	67.83	3.864	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda South 25 State 107H,128H,167H, 908H - RS25-107H - RS25-107H - RS25-107 H AsDrilled												Offset Site Error:	0.00 usft
Survey Program: 180-MWD, 9903-MWD+IFR1+MS, 18213-Projection												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,350.00	10,347.38	10,762.25	10,499.77	36.13	36.21	171.36	-50.94	-4.48	163.42	112.00	51.41	3.178	
10,400.00	10,397.37	10,771.73	10,501.13	36.31	36.23	161.29	-60.32	-4.30	125.76	69.24	56.52	2.225	
10,450.00	10,447.35	10,779.14	10,502.04	36.49	36.24	151.59	-67.67	-4.22	99.20	33.35	65.85	1.507	
10,485.67	10,483.00	10,783.50	10,502.52	36.62	36.25	146.82	-72.00	-4.19	92.66	20.70	71.96	1.288	Level 3, CC, ES, SF
10,500.00	10,497.32	10,785.07	10,502.68	36.67	36.25	145.03	-73.57	-4.19	93.76	21.87	71.89	1.304	Level 3
10,550.00	10,547.30	10,797.00	10,503.70	36.85	36.27	133.46	-85.45	-4.22	112.79	48.48	64.31	1.754	
10,600.00	10,597.28	10,797.00	10,503.70	37.03	36.27	128.76	-85.45	-4.22	146.48	89.08	57.40	2.552	
10,650.00	10,647.25	10,797.00	10,503.70	37.21	36.27	125.67	-85.45	-4.22	187.58	133.98	53.60	3.500	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RN25-168H - Slot RN25- 168H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3074+25 @ 3099.00usft (Tri101)
Reference Site:	Remuda North 25 State 107H,127H,128H,168H	MD Reference:	3074+25 @ 3099.00usft (Tri101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	RN25-168H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	168H Lateral	Database:	STRYKER_EDM
Reference Design:	168H Lateral AsDrilled	Offset TVD Reference:	Offset Datum

Offset Design Remuda South 25 State 107H,128H,167H, 908H - RS25-128H - RS25-128H - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,550.00	10,547.30	11,069.85	10,724.44	36.85	39.02	-40.96	-71.32	193.41	190.58	138.31	52.27	3.646	
10,600.00	10,597.28	11,070.93	10,724.44	37.03	39.02	-45.05	-72.39	193.42	150.32	93.41	56.91	2.642	
10,650.00	10,647.25	11,072.13	10,724.44	37.21	39.03	-47.33	-73.59	193.44	117.76	52.74	65.02	1.811	
10,700.00	10,697.23	11,073.23	10,724.44	37.38	39.03	-12.11	-74.69	193.45	100.73	25.81	74.92	1.344	Level 3
10,711.19	10,708.42	11,073.19	10,724.44	37.42	39.03	55.72	-74.65	193.45	100.08	24.50	75.58	1.324	Level 3, CC, ES, SF
10,750.00	10,747.20	11,071.83	10,724.44	37.56	39.03	92.49	-73.29	193.43	107.58	37.31	70.27	1.531	
10,800.00	10,796.79	11,065.51	10,724.43	37.72	39.02	87.73	-66.97	193.34	134.60	73.70	60.89	2.210	
10,850.00	10,845.57	11,055.40	10,724.40	37.88	39.02	76.72	-56.87	193.18	171.68	116.25	55.43	3.097	