Received by UCD: 52/15/2022 7:52:43 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reports 12/15/2022
Well Name: OUTRIDER 27 FED	Well Location: T24S / R32E / SEC 28 / SESW /	County or Parish/State: /
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM016353	Unit or CA Name:	Unit or CA Number:
US Well Number: 300255028700X1	Well Status: Drilling Well	Operator: XTO ENERGY INCORPORATED

Notice of Intent

Sundry ID: 2697566

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Type of Submission: Notice of Intent

Date Sundry Submitted: 10/11/2022

Date proposed operation will begin: 10/11/2022

Type of Action: Drilling Operations Time Sundry Submitted: 02:45

Procedure Description: XTO Energy, Inc., respectfully provides update and notice of change plans for the Outrider 27 Federal 605H due to a wellbore collision with XTO's Outrider 27 Federal 509H (API: 30-025-50237) at approximately ~1553' MD/1580'TVD in the intermediate portion of the wells due to severe bit drift. Post-collision, XTO pressure tested the 605H with the 509H well shut-in where it was observed the wellbores were communicating with each other. XTO pumped a 500' 17.5ppg Class H cement plug at the base of the Outrider 27 Federal 605H (1580'MD), WOC, and tagged TOC at 1557'MD in the 605H bore, indicating that the majority of the cement fell into the Outrider 27 Federal 509H wellbore. A second 800' 14.8ppg Class C cement plug was then pumped at 1557MD'. After WOC, we were able to tag the plug at ~1123'MD. Pursuant to email approval from Long Vo, XTO is utilizing the recently tagged plug at 1123'MD as a kick-off plug, then deviating and paralleling the existing 605H well with no changes anticipated to MD/TVD. No change in casing/cement configuration are requested at this time. Attachments: AC Report

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

605H_BOP1_AC_REPORT_20221011144501.PDF

eeived by OCD: 12/15/2022 7:52:43 AM Well Name: OUTRIDER 27 FED	Well Location: T24S / R32E / SEC 28 / SESW /	County or Parish/State: / Page 2
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM016353	Unit or CA Name:	Unit or CA Number:
US Well Number: 300255028700X1	Well Status: Drilling Well	Operator: XTO ENERGY INCORPORATED
Conditions of Approv	al	
becialist Review		
MailVoLong_TOutlook_2022	21215062050.pdf	
Operator		
crime for any person knowingly and will	prrect. Title 18 U.S.C. Section 1001 and Titl Ifully to make to any department or agency tions as to any matter within its jurisdiction. Igulations requiring a	of the United States any false, fictition
Operator Electronic Signature: JESS	SICA DOOLING Sig	gned on: OCT 11, 2022 02:45 PM
Name: XTO ENERGY INCORPORATE	ED	
Title: Lead Regulatory Coordinator		
Street Address: 6401 HOLIDAY HILL	ROAD BLDG 5	
	ROAD BLDG 5 ate: TX	
City: MIDLAND St	ate: TX	
City: MIDLAND St Phone: (970) 769-6048 St	ate: TX	

Representative Name: Street Address: City: Phone: Email address:

State:

BLM Point of Contact

BLM POC Name: LONG VO BLM POC Phone: 5752345972 Disposition: Accepted Signature: Long Vo BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 12/15/2022

Zip:



XTO ENERGY INC.

LEA COUNTY, NM OUTRIDER 27 FED O27F 605H

O27F 605H ST1 BOP1123

Anticollision Risk Report

09 October, 2022





GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum
Reference	BOP1123		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 20	00'+ 100/1000 of reference	
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	0.00 to 12,000.00usft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,490.22usft	Error Surface:	Elliptical Conic
Warning Levels Evalua	ted at: 2.00 Sigma	Casing Method:	Not applied

Risk Settings		
Vertical Depth for Analysis:	usft	(Below TVD Reference Datum)
Level of Acceptable Risk (1 in):		
Minimum Separation:	0 usft	
•		

Survey Tool Program		Date	10/9/2022		
From (usft)	To (usft)	Survey	(Wellbore)	Tool Name	Description
171.00 1,192.00 1,123.00	1,123.00	GGDS S	SURVEY SH (O27F 605H OH) SURVEY INT (O27F 605H OH) 23 (O27F 605H ST1)	XOMR2_OWSG MWD+IFR	1 OWSG MWD + IFR1 + Multi-Station Correction 1 OWSG MWD + IFR1 + Multi-Station Correction 1 OWSG MWD + IFR1 + Multi-Station Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
OUTRIDER 27 FED						
O27F 509H - O27F 509H - O27F 509H O27F 509H - O27F 509H - O27F 509H O27F 509H - O27F 509H - PLAN 4 O27F 509H - O27F 509H - PLAN 4	1,362.13 1,400.00 926.76 3,250.00	1,361.27 1,398.85 925.52 3,227.46	16.51 16.97 23.87 35.05	7.59 7.80 17.87 12.11	1.852 CC, ES 1.850 SF 3.975 CC 1.528 ES, SF	
O27F 510H - O27F 510H - O27F 510H	0.00	0.00	30.02			
O27F 510H - O27F 510H - O27F 510H O27F 510H - O27F 510H - O27F 510H O27F 510H - O27F 510H - O27F 510H O27F 510H - O27F 510H - PLAN 3	50.00 1,050.00 0.00	48.98 1,048.41 0.00	30.06 44.71 30.02	29.95 37.98	275.559 ES 6.643 SF	
O27F 510H - O27F 510H - PLAN 3 O27F 510H - O27F 510H - PLAN 3 O27F 510H - O27F 510H - PLAN 3	500.00 12,000.00	498.99 12,084.57	30.02 32.48 330.43	29.51 245.62	10.932 ES 3.896 SF	
O27F 511H - O27F 511H - O27F 511H	0.00	0.00	60.00			
O27F 511H - O27F 511H - O27F 511H O27F 511H - O27F 511H - O27F 511H O27F 511H - O27F 511H - PLAN 5	50.00 1,050.00 0.00	49.91 1,050.83 0.00	60.08 69.02 60.00	59.96 62.37	532.080 ES 10.373 SF	
O27F 511H - O27F 511H - PLAN 5 O27F 511H - O27F 511H - PLAN 5 O27F 511H - O27F 511H - PLAN 5	500.00 6,300.00	499.99 6,267.87	62.47 304.96	59.50 255.62	21.004 ES 6.181 SF	
O27F 512H - O27F 512H - O27F 512H O27F 512H - O27F 512H - O27F 512H	805.26 1,050.00	806.39 1,048.22	89.03 98.59	84.12 91.94	18.114 CC, ES 14.835 SF	
O27F 512H - O27F 512H - PLAN 6 O27F 512H - O27F 512H - PLAN 6	0.00 600.00	0.00 599.28	90.01 93.08	89.41	25.355 ES	
O27F 512H - O27F 512H - PLAN 6 O27F 605H - O27F 605H OH - O27F 605H OH	6,300.00 1,123.00	6,203.92 1,123.00	654.83 0.04	604.59	13.034 SF	
O27F 605H - O27F 605H OH - O27F 605H OH O27F 605H - O27F 605H OH - PLAN 3	1,150.00 0.00	1,150.00 0.00	0.11 0.00	-0.04	0.747 Level 1,	ES, SF
O27F 605H - O27F 605H OH - PLAN 3 O27F 605H - O27F 605H ST1 - O27F 605H ST1	12,000.00 1,123.00	11,968.29 1,123.00	0.29 0.16	-84.10 -3.35	0.003 Level 1 , 0.047 Level 1 ,	,

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

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:		XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:		LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Sit	e:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:		0.00	North Reference:	Grid
Reference We	ell:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:		0.00	Output errors are at	2.00 sigma
Reference We	llbore	O27F 605H ST1	Database:	XTO ENERGY
Reference De	sign:	BOP1123	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
OUTRIDER 27 FED						
O27F 605H - O27F 605H ST1 - PLAN 3 O27F 605H - O27F 605H ST1 - PLAN 3	0.00 12,000.00	0.00 11,968.29	0.00 0.29	-84.10	0.003 Lev	el 1 , ES, SF

Network Degrif UnityOffer Degrif (art)Semide Degrif NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer NoOffer No <th< th=""><th>Offset Des</th><th>•</th><th></th><th></th><th>ED - 027F</th><th>509H - O</th><th>27F 509H ·</th><th>027F 509</th><th>Н</th><th></th><th></th><th></th><th></th><th>Offset Site Error:</th><th>0.00 usft</th></th<>	Offset Des	•			ED - 027F	509H - O	27F 509H ·	027F 509	Н					Offset Site Error:	0.00 usft
Dependence Vertical Dependence Mereteres (ur.t) Protecteres (ur.t) Protecteres (ur.t) Reverse (ur.t) Reverse (ur.t)			-			Avie		Diet	anco					Offset Well Error:	0.00 usft
Depth Depth <th< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th>Hiahside</th><th></th><th></th><th>Minimum</th><th>Separation</th><th>Risked</th><th>Probability</th><th>Warning</th><th></th></th<>					-		Hiahside			Minimum	Separation	Risked	Probability	Warning	
5000 5000 4899 4899 0.04 0.07 4881 29.87 20.76 0.11 20.77 0 10000 550.00 149.66 148.66 0.22 60.77 29.87 29.33 0.44 70.01 0 220.00 220.00 2246.93 248.93 0.54 0.51 55.16 29.42 28.38 1.04 28.225 0 300.00 239.99 288.94 20.84 0.71 0.69 40.01 29.44 28.38 1 24.823 0 400.00 398.99 388.92 348.91 1.07 1.04 2.37 28.80 2.46 1.154.1 0 450.00 446.99 448.81 1.48 1.44 1.24 2.38.24 2.869 2.41 1.54.3 0 600.00 649.99 448.81 1.84 1.44 2.35 2.44 3.52 8.052 0 1.19 0 500.00 549.85 648.47	Depth	Depth	Depth	Depth			Toolface	Centres	Ellipses	Separation		Separation			
10000 9897 9897 013 016 60.17 29.07 29.52 0.27 016.868 0 20000 20000 198.93 198.93 0.33 60.09 29.52 28.83 0.64 47.67.61 0 280.00 220.00 288.93 248.93 0.54 0.51 55.16 29.42 228.38 1.04 28.255 0 300.00 349.99 388.93 388.93 0.89 1.07 1.04 2.324 27.84 1.14 20.835 0 400.00 449.99 448.87 448.86 1.24 1.22 -38.24 2.88.0 2.62 2.11 15.84 0 500.00 449.99 448.87 448.86 1.24 1.22 -38.24 2.88.0 2.62 1.0119 0 500.00 649.98 648.77 5.68.70 1.77 1.76 4.38 2.82 2.47 3.88 7.92 0 650.00 649.98 6	0.00	0.00	0.00	0.00	0.00	0.00	179.62	29.92				0			
19000 19000 148.86 148.86 0.22 0.077 28.67 29.23 0.44 0.64 0.51 20000 250.00 248.03 198.83 0.54 0.51 55.16 29.52 28.83 1.04 28.225 0 30000 298.99 288.94 284.93 0.44 0.51 55.16 29.42 228.38 1.04 28.225 0 40000 398.99 388.92 388.91 1.07 1.04 23.37 28.60 266.9 2.11 1.84.3 0 40000 498.99 488.81 1.42 1.24 1.24 1.42 1.36.2 28.63 25.66 2.21 1.19 0 550.00 499.99 488.1 488.0 1.17 1.76 4.16 23.35 24.64 3.52 8.052 0 60000 599.88 548.77 548.75 1.59 1.58 4.90.6 2.84.3 22.8 2.44 6.42.1 0 72.10 742.45 742.8 2.80 2.44.7 4.85 3.52 <	50.00	50.00	48.99	48.99	0.04	0.07	49.81	29.87	29.76	0.11	272.977	0			
20000 22000 198.83 198.93 0.64 0.51 65.09 29.42 28.33 0.64 43.123 0 250.00 226.90 246.93 246.93 0.64 0.51 65.16 29.42 28.34 1.04 28.225 0 350.00 226.99 289.84 28.84 0.86 0.71 0.669 4.01 29.24 27.84 1.40 20.825 0 440.00 346.99 348.83 348.93 0.68 1.42 1.40 -23.37 28.00 25.60 2.52 1.11 1.64.31 0 450.00 449.99 448.87 448.86 1.44 1.42 3.40 42.85 2.80 2.50 2.50 2.50 2.50 1.51 6.50 6.50 6.56.77 7.54.75 1.59 1.59 1.58 42.83 2.44 3.83 2.44 3.88 7.00 7.92.87 7.72.12 7.22.77 7.22.14 7.22.77 7.22.15 5.66 4.64	100.00	100.00	98.97	98.97	0.13	0.15	50.17	29.80	29.52	0.27	108.686	0			
280.00 280.00 248.93 248.93 0.64 0.51 55.16 29.42 28.38 1.04 28.225 0 300.00 298.99 348.93 0.48 0.99 0.87 13.97 29.00 27.25 1.76 10.518 0 400.00 398.99 348.93 0.41 1.24 1.22 -32.42 28.83 28.69 2.11 1.84.3 0 400.00 449.99 448.81 1.48 1.44 1.22 -32.42 28.83 28.69 2.21 11.84.3 0 500.00 449.99 448.87 1.49 1.54 28.83 2.86 3.22 0.11 0 600.00 59.99 59.87 58.87 1.49 1.44 2.83 2.44.7 3.88 7.37 0 700.00 69.96 69.65 68.47 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12	150.00	150.00	148.96	148.96	0.22	0.22	50.77	29.67	29.23	0.44	67.601	0			
300.00 299.99 288.94 288.94 0.71 0.69 40.01 29.24 27.84 1.40 20.883 0 300.00 349.99 348.33 348.33 0.89 0.87 13.97 20.00 27.25 1.77 1.65.18 0 450.00 449.99 448.87 448.86 1.42 1.42 38.24 28.83 26.69 2.11 1.54.43 0 560.00 549.98 548.77 548.75 1.59 1.56 40.09 28.43 22.80 3.17 8.965 0 660.00 569.98 568.73 1.77 1.76 -1.38 23.83 24.87 3.82 2.00 1.07 1.07 1.76 -1.38 2.83 2.447 3.83 7.07 0 700.00 699.96 698.47 2.12 2.12 2.12 2.50 2.38 2.447 3.80 7.30 0 7.77 2.71 4.56 6.166 0 720.49 <td>200.00</td> <td>200.00</td> <td>198.93</td> <td>198.93</td> <td>0.36</td> <td>0.33</td> <td>60.69</td> <td>29.52</td> <td>28.83</td> <td>0.68</td> <td>43.123</td> <td>0</td> <td></td> <td></td> <td></td>	200.00	200.00	198.93	198.93	0.36	0.33	60.69	29.52	28.83	0.68	43.123	0			
348.90 348.93 348.93 0.89 0.87 13.97 20.00 27.25 17.16 16.518 0 400.00 449.99 448.87 448.66 1.24 1.22 38.24 28.63 26.16 2.26 11.618 0 500.00 449.99 448.87 448.66 1.24 1.22 38.24 28.63 26.16 2.26 11.618 0 500.00 599.86 598.77 598.7 1.59 1.58 4.00.0 28.43 22.82 3.17 8.065 0 690.00 599.86 598.77 588.77 1.77 1.76 1.51.28 28.30 24.07 4.22 6.884 0 724.12 724.27 772.28 2.20 2.21 -51.28 28.30 24.07 4.26 6.84 0 790.00 799.87 748.47 74.81 2.48 -54.77 2.28 2.56 6.84.16 0 900.00 989.85 848.30	250.00	250.00	248.93	248.93	0.54	0.51	55.16	29.42	28.38	1.04	28.225	0			
480.00 398.92 398.92 398.91 1.07 1.04 22.37 22.80 28.69 2.11 13.643 0 450.00 449.99 448.87 448.88 1.24 1.22 -38.24 28.63 28.16 2.26 1.161 0 500.00 549.88 548.77 548.75 1.59 1.58 40.09 22.43 22.62 2.17 3.864 0 600.00 569.99 698.73 598.73 598.70 1.77 1.76 -51.36 28.32 24.47 3.86 7.357 0 700.00 669.95 698.65 698.47 2.12 2.12 -51.28 23.03 2.477 4.58 5.73 0 724.12 724.12 724.12 724.12 2.21 -51.38 22.38 4.44 54.573 0 800.00 789.33 748.42 748.31 2.30 2.30 -50.57 2.83 2.44 4.55 7.38 0 800.00 898.38 898.17 2.83 2.44 7.17 7.70 5.33	300.00	299.99	298.94	298.94	0.71	0.69	40.01	29.24	27.84	1.40	20.883	0			
440.00 448.87 448.88 1.24 1.22 38.24 28.63 28.65 25.69 2.82 10.119 0 500.00 499.99 498.81 498.80 1.42 1.40 -45.15 28.50 25.69 2.82 10.119 0 500.00 599.98 548.77 548.70 1.77 1.76 -51.38 28.28 24.86 3.52 8.652 0 600.00 699.95 696.56 696.47 2.12 2.12 -51.28 2.30 2.4.07 4.23 6.664 0 700.00 799.90 798.31 781.7 2.47 -50.88 28.29 2.3.8 4.41 6.41 0 750.00 749.93 798.1 784.13 2.30 2.30 -50.7 28.30 2.3.1 4.59 6.166 0 900.00 989.00 684.33 848.13 2.64 2.63 2.50 5.30 5.35 0 980.00 989.00 698.22 3.19 3.20 -56.30 2.7.02 2.66 6.37 4.997												0			
500.00 499.99 498.81 496.80 1.42 1.40 -45.15 28.50 25.69 2.82 10.119 0 500.00 549.88 548.77 548.75 1.59 1.58 -40.09 28.43 252.60 0 650.00 649.97 646.65 648.69 1.14 1.94 -51.48 28.30 24.47 3.88 7.07 0 700.00 699.95 698.55 698.47 2.12 2.12 -51.28 28.30 23.17 4.56 6.66 0 724.18 722.67 722.82 2.20 -50.57 2.30 2.31 4.56 6.78 0 860.00 899.80 988.31 984.13 2.66 -53.28 28.40 2.30 5.35 5.36 0 990.00 999.85 998.80 988.33 3.01 3.02 -56.72 2.7.72 2.1.75 6.66 497 0 1.000.00 1.994.50 1.994.80 988.33	400.00	399.99	398.92	398.91	1.07	1.04	-23.37	28.80	26.69	2.11	13.643	0			
550.00 548.98 548.77 548.75 1.59 1.58 -49.09 28.43 25.26 3.17 8.965 0 650.00 596.98 598.73 598.70 1.77 1.76 -51.36 23.38 24.66 3.52 8.052 0 650.00 699.95 698.65 698.47 2.12 2.12 -51.28 28.30 24.07 4.23 6.684 0 700.00 699.95 698.65 698.47 2.12 2.0 2.0 -50.88 28.30 2.311 4.59 6.166 0 800.00 799.90 788.31 798.17 2.47 2.48 -51.03 28.30 2.311 4.55 5.738 0 900.00 699.80 898.38 684.17 2.66 2.66 -53.28 2.2.62 5.56 6.49.97 0 950.00 949.73 948.48 948.23 3.01 3.02 -56.76 2.7.77 2.1.75 6.02 4.616 0 1.000.00 1.998.44 1.048.62 1.048.03 3.36 -56.68	450.00	449.99	448.87	448.86	1.24	1.22	-38.24	28.63	26.16	2.46	11.618	0			
600.00 599.99 596.73 599.70 1.77 1.76 -51.36 28.38 24.46 3.52 8.052 0 650.00 649.97 648.65 686.47 2.12 2.12 1.212 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.13 4.59 5.166 0 700.00 799.90 798.31 784.17 2.47 2.44 5.103 2.33 2.34 4.45 5.738 0 850.00 849.85 848.30 848.13 2.65 2.66 -53.28 2.26 5.66 4.997 0 1.000.00 996.65 998.50 996.22 3.19 3.20 -56.78 2.77 2.175 6.02 4.61 0 1.000.01 1.494.55 1.484.89 4.08 4.09 -56.78 2.777 2.175 6.03.74 2.39 <	500.00	499.99		498.80				28.50				0			
600.00 599.99 596.73 599.70 1.77 1.76 -51.36 28.38 24.46 3.52 8.052 0 650.00 649.97 648.65 686.47 2.12 2.12 1.212 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.12 2.13 4.59 5.166 0 700.00 799.90 798.31 784.17 2.47 2.44 5.103 2.33 2.34 4.45 5.738 0 850.00 849.85 848.30 848.13 2.65 2.66 -53.28 2.26 5.66 4.997 0 1.000.00 996.65 998.50 996.22 3.19 3.20 -56.78 2.77 2.175 6.02 4.61 0 1.000.01 1.494.55 1.484.89 4.08 4.09 -56.78 2.777 2.175 6.03.74 2.39 <	550.00	549.98	548.77	548.75	1.59	1.58	-49.09	28.43	25.26	3.17	8.965	0			
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850.00 849.85 848.30 848.13 2.65 2.66 -53.28 28.40 23.09 5.30 5.356 0 900.00 899.80 898.38 698.17 2.83 2.84 -54.78 22.82 2.262 5.66 4.997 0 1,000.00 999.65 998.50 998.22 3.19 3.20 -55.76 27.77 21.75 6.02 4.616 0 1,000.00 1.998.50 1.982.22 3.19 3.20 -56.30 27.02 20.66 6.37 4.239 0 1,100.00 1.099.44 1.987.77 1.098.40 3.54 3.56 -57.82 24.47 17.37 7.09 3.450 0 1,200.00 1.149.21 1.148.71 3.72 3.74 -66.14 22.263 15.19 7.45 3.039 0 1,200.00 1.249.21 1.249.61 1.249.08 4.08 4.09 -105.07 18.85 10.70 8.15 2.312 0	750.00	749.93	748.42	748.31	2.30	2.30	-50.57	28.30	23.71	4.59	6.166	0			
900.00 898.80 898.38 898.17 2.83 2.84 -54.78 28.28 22.62 5.66 4.997 0 950.00 949.73 948.48 948.23 3.01 3.02 -55.76 27.77 21.75 6.02 4.616 0 1.000.00 999.65 998.50 998.22 3.19 3.20 -56.30 27.02 20.65 6.37 4.239 0 1.000.00 1.099.65 10.48.62 1.048.30 3.36 3.38 -56.68 2.595 19.22 6.73 3.855 0 1.100.00 1.099.44 1.098.77 1.098.40 3.54 3.56 -57.82 24.47 17.37 7.09 3.450 0 1.150.00 1.499.28 1.199.46 1.198.99 3.90 3.92 -85.06 20.71 12.91 7.81 3.03 0 1.250.00 1.249.23 1.249.08 4.42 -167.04 16.57 7.74 8.83 1.87 0 1.360.00 1.349.18 1.349.24 1.348.60 4.42 4.42 -16.57 </td <td>800.00</td> <td>799.90</td> <td>798.31</td> <td>798.17</td> <td>2.47</td> <td>2.48</td> <td>-51.03</td> <td>28.38</td> <td>23.43</td> <td>4.95</td> <td>5.738</td> <td>0</td> <td></td> <td></td> <td></td>	800.00	799.90	798.31	798.17	2.47	2.48	-51.03	28.38	23.43	4.95	5.738	0			
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1,150.00 1,149.35 1,149.12 1,148.71 3.72 3.74 -66.14 22.63 15.19 7.45 3.039 0 1,200.00 1,199.28 1,199.46 1,198.99 3.90 3.92 -85.06 20.71 12.91 7.81 2.654 0 1,250.00 1,249.23 1,249.61 1,249.08 4.08 4.09 -105.07 18.85 10.70 8.15 2.312 0 1,300.00 1,299.20 1,299.63 1299.05 4.25 4.26 -137.73 17.40 8.90 8.50 2.048 0 1,350.00 1,349.18 1,349.24 1,348.60 4.42 4.42 -167.04 16.57 7.74 8.83 1.876 0 1,450.00 1,491.71 1,348.85 1,398.15 4.59 4.59 128.98 16.97 7.80 9.17 1.850 0 SF 1,450.00 1,494.17 1,448.49 1,447.75 4.76 4.75 91.57 17.73 8.23 9.51 1.865 0 1,550.00 1,549.09 1,548.03		1,049.55		1,048.30	3.36							0			
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1,200.00 1,199.28 1,199.46 1,198.99 3.90 3.92 -85.06 20.71 12.91 7.81 2.654 0 1,250.00 1,249.23 1,249.61 1,249.08 4.08 4.09 -105.07 18.85 10.70 8.15 2.312 0 1,300.00 1,299.20 1,299.63 1,299.05 4.25 4.26 -137.73 17.40 8.90 8.50 2.048 0 1,350.00 1,349.18 1,349.24 1,348.60 4.42 4.42 -167.04 16.57 7.74 8.83 1.876 0 1,362.13 1,361.31 1,361.27 1,360.62 4.46 4.46 -179.28 16.51 7.59 8.92 1.852 0 CC, ES 1,400.00 1,399.17 1,398.85 1,398.15 4.59 4.59 128.98 16.97 7.80 9.17 1.865 0 1,500.00 1,449.17 1,448.49 1,447.75 4.76 4.75 91.57 17.73 8.23 9.51 1.865 0 1,500.00 1,449.14 1,498.21		1,149.35		1,148.71		3.74	-66.14	22.63		7.45	3.039	0			
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1,300.00 1,299.20 1,299.63 1,299.05 4.25 4.26 -137.73 17.40 8.90 8.50 2.048 0 1,350.00 1,349.18 1,349.24 1,348.00 4.42 4.42 -167.04 16.57 7.74 8.83 1.876 0 1,362.13 1,361.31 1,361.27 1,360.62 4.46 4.46 -179.28 16.51 7.59 8.92 1.852 0 CC, ES 1,400.00 1,399.17 1,388.55 1,388.15 4.59 4.59 128.98 16.97 7.80 9.17 1.865 0 1,450.00 1,449.17 1,448.49 1,447.75 4.76 4.75 91.57 17.73 8.23 9.51 1.865 0 1,500.00 1,499.14 1,489.21 1,497.43 4.92 92.10 19.37 9.54 9.84 1.969 0 1,500.00 1,548.03 1,547.22 5.09 5.09 97.10 21.49 11.31 10.18 2.112 0 1,600.00 1,599.00 1,597.81 1,596.93 5.26 <td>1.250.00</td> <td>1.249.23</td> <td>1.249.61</td> <td>1.249.08</td> <td>4.08</td> <td>4.09</td> <td>-105.07</td> <td>18.85</td> <td>10.70</td> <td>8.15</td> <td>2.312</td> <td>0</td> <td></td> <td></td> <td></td>	1.250.00	1.249.23	1.249.61	1.249.08	4.08	4.09	-105.07	18.85	10.70	8.15	2.312	0			
1,350.00 1,349.18 1,349.24 1,346.00 4.42 4.42 -167.04 16.57 7.74 8.83 1.876 0 1,362.13 1,361.31 1,361.27 1,360.62 4.46 4.46 -179.28 16.51 7.59 8.92 1.852 0 CC, ES 1,400.00 1,399.17 1,388.85 1,388.15 4.59 4.59 128.98 16.97 7.80 9.17 1.865 0 1,450.00 1,449.17 1,448.49 1,447.75 4.76 4.75 91.57 17.73 8.23 9.51 1.865 0 1,500.00 1,449.14 1,489.21 1,497.43 4.92 4.92 92.10 19.37 9.54 9.84 1.969 0 1,500.00 1,549.09 1,548.03 1,547.22 5.09 5.09 97.10 21.49 11.31 10.18 2.112 0 1,600.00 1,599.00 1,597.81 1,596.93 5.26 5.26 97.14 24.03 13.52 10.51 2.286 0 1,650.00 1,648.85 1,647.52 <td></td>															
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.450.00	1.449.17	1.448.49	1.447.75	4.76	4.75	91.57	17.73	8.23	9.51	1.865	0			
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1,800.00 1,797.95 1,797.23 1,796.09 5.94 5.97 124.83 40.24 28.39 11.86 3.394 0 1,850.00 1,847.45 1,847.46 1,846.31 6.11 6.14 129.72 45.17 32.98 12.18 3.708 0															
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1,900.00 1,896.82 1,897.89 1,896.71 6.29 6.32 133.65 50.12 37.62 12.50 4.009 0	1,900.00	1,896.82	1,897.89	1,896.71	6.29	6.32	133.65	50.12	37.62			0			

10/9/2022 1:09:31PM

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



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	-			ED - 027F	509H - O	27F 509H ·	O27F 509	Н					Offset Site Error:	0.00 u
urvey Prog Refer		-XOMR2_OWS Offse		R1+MS Semi Major	Axis		Dis	tance					Offset Well Error:	0.00 u
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
1,950.00	1,946.05	1,948.55	1,947.31	6.46	6.49	136.79	54.91	42.10	12.82	4.285	0			
2,000.00	1,995.12	1,999.29	1,997.88	6.63	6.66	139.28	59.49	46.37	13.13	4.532	0			
2,050.00	2,044.02	2,050.20	2,048.50	6.80	6.83	141.17	63.86	50.41	13.44	4.750	0			
2,100.00	2,092.73	2,101.13	2,098.97	6.98	7.00	142.51	67.99	54.24		4.945	0			
2,150.00	2,141.24	2,152.17	2,149.34	7.15	7.17	143.34	71.91	57.84	14.06	5.114	0			
2,200.00	2,189.53	2,203.00	2,199.27	7.33	7.35	143.71	75.71	61.34	14.37	5.267	0			
2,250.00	2,237.60	2,253.83	2,248.94	7.51	7.52	143.68	79.49	64.80		5.412	0			
2,300.00	2,285.41	2,304.48	2,298.17	7.69	7.69	143.27	83.36	68.35		5.555	0			
2,350.00	2,332.97	2,355.27	2,347.22	7.87	7.86	142.53	87.35	72.03	15.33		0			
2,400.00	2,380.25	2,406.27	2,396.14	8.05	8.04	141.55	91.36	75.71	15.65		0			
2,450.00	2,427.24	2,457.69	2,445.10	8.24	8.21	140.43	95.29	79.31	15.99		0			
2,500.00	2,473.96	2,509.58	2,494.26	8.42	8.39	139.76	98.81	82.47		6.049	0			
2,550.00	2,520.63	2,560.82	2,542.64	8.61	8.57	139.43	101.52	84.81		6.076	0			
2,600.00	2,567.30	2,611.80	2,590.81	8.80	8.75	139.48	103.71	86.63		6.072	0			
2,650.00	2,613.97	2,662.64	2,638.89	8.99	8.94	139.90	105.44	87.99	17.45	6.043	0			
2,700.00	2,660.64	2,713.44	2,686.98	9.18	9.12	140.67	106.77	88.96	17.81	5.994	0			
2,750.00	2,707.32	2,764.07	2,734.96	9.38	9.30	141.82	107.78	89.60		5.929	0			
2,800.00	2,753.99	2,814.63	2,782.91	9.57	9.49	143.36	108.53	90.00		5.855	0			
2,850.00	2,800.66	2,865.04	2,830.74	9.77	9.68	145.16	109.11	90.22	18.90	5.774	0			
2,900.00	2,847.33	2,915.33	2,878.43	9.97	9.86	147.12	109.57	90.32	19.25	5.691	0			
2,950.00	2,894.00	2,965.20	2,925.74	10.17	10.05	149.20	110.08	90.47		5.613	0			
3,000.00	2,940.67	3,014.98	2,972.99	10.37	10.23	151.41	110.74	90.77		5.545	0			
3,050.00	2,987.34	3,064.60	3,020.12	10.57	10.42	153.71	111.62	91.29	20.33		0			
3,100.00	3,034.01	3,114.18	3,067.27	10.77	10.60	156.11	112.78	92.09	20.69		0			
3,150.00	3,080.68	3,163.72	3,114.42	10.97	10.79	158.58	114.22	93.17	21.05	5.426	0			
3,200.00	3,127.35	3,212.57	3,160.96	11.17	10.97	161.08	116.04	94.62	21.41	5.419	0			
3,250.00	3,174.02	3,260.66	3,206.95	11.38	11.15	163.54	118.67	96.89	21.78	5.449	0			
3,300.00	3,220.69	3,308.99	3,253.34	11.58	11.34	165.97	122.17	100.02	22.14	5.517	0			
3,350.00	3,267.36	3,357.52	3,300.04	11.79	11.52	168.39	126.32	103.80	22.51	5.611	0			
3,400.00	3,314.03	3,405.86	3,346.66	11.99	11.70	170.70	131.12	108.23	22.89	5.729	0			
0 450 00	0 000 70	0 454 40	0 000 00	40.00	44.00	470 74	100 50	440.00	00.00	5 074	0			
3,450.00	3,360.70	3,454.12	3,393.32	12.20	11.88	172.71	136.56	113.30	23.26		0			
3,500.00	3,407.37	3,503.50	3,441.18	12.41	12.07	174.35	142.48	118.83		6.025	0			
3,550.00	3,454.05	3,553.81	3,489.93	12.62	12.26	175.40	148.29	124.25		6.169	0			
3,600.00	3,500.72	3,604.02	3,538.53	12.82	12.45	175.86	153.91	129.48	24.43		0			
3,650.00	3,547.39	3,654.19	3,587.04	13.03	12.64	175.81	159.38	134.55	24.03	6.418	0			
3,700.00	3,594.06	3,705.19	3,636.24	13.24	12.84	175.41	164.60	139.36	25.24	6.523	0			
3,750.00	3,640.73	3,756.40	3,685.50	13.45	13.03	174.86	169.40	143.75	25.64	6.606	0			
3,800.00	3,687.40	3,807.85	3,734.86	13.66	13.23	174.24	173.75	147.69	26.05	6.669	0			
3,850.00	3,734.07	3,859.15	3,783.91	13.87	13.43	173.60	177.64	151.18	26.47	6.712	0			
3,900.00	3,780.74	3,909.49	3,831.98	14.08	13.63	173.06	181.30	154.42	26.87	6.746	0			
2 050 00	2 0 2 7 4 4	2 050 02	2 000 42	14.00	12.00	170.66	104 00	157 54	27.20	6.774	0			
3,950.00 4,000.00	3,827.41 3,874.08	3,959.92 4,010.52	3,880.13 3,928.40	14.29 14.51	13.82 14.02	172.66 172.36	184.82 188.18	157.54 160.48		6.794	0			
					14.02		188.18	160.48						
4,050.00 4,100.00	3,920.75 3,967.42	4,060.75 4,110.43	3,976.29 4,023.66	14.72 14.93	14.22	172.15 171.95	191.36	163.26		6.809 6.824	0 0			
4,100.00		4,110.43 4,159.69	4,023.66	14.93	14.42	171.95	194.57	168.93	28.51		0			
-1,130.00	7,014.09	7,105.08	-,070.00	10.14	14.01	171.70	191.00	100.93	20.92	0.011	5			
4,200.00	4,060.76	4,208.56	4,117.35	15.36	14.81	171.58	201.37	172.04	29.33	6.866	0			
4,250.00	4,107.43	4,258.58	4,165.18	15.57	15.00	171.42	205.06	175.32	29.74	6.895	0			
4,300.00	4,154.10	4,309.45	4,213.78	15.78	15.21	171.27	208.54	178.39	30.15	6.916	0			
4,350.00	4,200.78	4,360.89	4,262.83	16.00	15.41	171.13	211.75	181.18	30.57	6.926	0			
4,400.00	4,247.45	4,412.59	4,312.01	16.21	15.62	171.02	214.54	183.55	30.99	6.923	0			
4 450 00	1 204 40	4 464 00	1 261 07	16 10	15 00	170.00	246.00	105 50	04 44	8 006	0			
4,450.00 4,500.00	4,294.12 4,340.79	4,464.29 4,515.96	4,361.07 4,409.96	16.42 16.64	15.83 16.04	170.92 170.82	216.93 218.91	185.52 187.07	31.41	6.876	0 0			
4,500.00	4,340.79	4,515.96	4,409.96	10.04	16.04	170.82	218.91	187.07	31.84	0.0/0	U			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Irvey Prog	ram: 185	-XOMR2_OWS	G MWD+IFR	1+MS									Offset Well Error:	0.00 usft
Refer		Offse		Semi Major	Axis		Dis	tance					Onset Well Entri:	
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
4,550.00	4,387.46	4,566.22	4,457.45	16.85	16.24	170.71	220.67	188.41	32.25	6.842	0			
4,600.00	4,434.13	4,615.94	4,504.40	17.07	16.44	170.60	222.37	189.70	32.67	6.807	0			
4,650.00	4,480.80	4,662.52	4,548.53	17.28	16.63	170.54	224.52	191.45	33.07	6.789	0			
4,700.00	4,527.47	4,709.83	4,593.59	17.50	16.82	170.55	227.42	193.95	33.48	6.794	0			
4,750.00	4,574.14	4,762.55	4,643.80	17.71	17.04	170.66	230.23	196.33	33.90	6.791	0			
4,800.00	4,620.81	4,814.18	4,692.80	17.93	17.25	170.85	232.47	198.15	34.32	6.773	0			
4,850.00	4,667.48	4,863.44	4,739.56	18.15	17.45	171.16	234.68	199.95	34.73		0			
4,900.00	4,714.15	4,913.34	4,786.98	18.36	17.65	171.60	237.02	201.88	35.14		0			
4,950.00	4,760.82	4,964.22	4,835.30	18.58	17.86	172.15	239.24	203.68	35.56	6.728	0			
5,000.00	4,807.49	5,014.57	4,883.05	18.79	18.06	172.79	241.30	205.33	35.97	6.708	0			
5,050.00	4,854.16	5,064.43	4,930.34	19.01	18.26	173.48	243.38	207.00	36.38	6.690	0			
5,100.00	4,900.83	5,114.00	4,977.34	19.23	18.46	174.21	245.51	208.72	36.79	6.674	0			
5,150.00	4,947.50	5,163.39	5,024.21	19.45	18.66	174.94	247.77	210.57	37.20	6.661	0			
5,200.00	4,994.18	5,212.59	5,070.93	19.66	18.86	175.61	250.17	212.57	37.60	6.653	0			
5,250.00	5,040.85	5,261.79	5,117.70	19.88	19.06	176.07	252.75	214.73	38.01	6.649	0			
5,300.00	5,087.52	5,310.20	5,163.80	20.10	19.26	176.33	255.53	217.10	38.42	6.650	0			
5,350.00	5,134.19	5,358.39	5,209.77	20.31	19.46	176.41	258.64	219.81	38.83	6.660	0			
5,400.00	5,180.86	5,408.00	5,257.16	20.53	19.66	176.35	261.97	222.72	39.25		0			
5,450.00	5,227.53	5,457.92	5,304.82	20.75	19.86	176.21	265.30	225.63	39.67		0			
5,500.00	5,274.20	5,508.62	5,353.20	20.97	20.07	176.02	268.56	228.47		6.699	0			
5,550.00	5,320.87	5,559.39	5,401.59	21.19	20.27	175.83	271.66	231.14	40.51		0			
5 600 00	5,367.54	5 600 72	5,449.54	21.40	20.48	175.67	274.64	233.70	40.04	6 700	0			
5,600.00		5,609.72							40.94		0			
5,650.00	5,414.21	5,659.64	5,497.07	21.62	20.68 20.88	175.54	277.55 280.67	236.19 238.90	41.36		0			
5,700.00	5,460.88	5,707.53	5,542.74	21.84		175.44			41.77		0			
5,750.00	5,507.55	5,755.95	5,589.02	22.06	21.08	175.36	284.15	241.96	42.18		0			
5,800.00	5,554.22	5,806.73	5,637.54	22.28	21.28	175.25	287.63	245.03	42.61	0.751	0			
5,850.00	5,600.89	5,857.27	5,685.80	22.49	21.49	175.12	290.97	247.94	43.03	6.762	0			
5,900.00	5,647.56	5,907.32	5,733.57	22.71	21.69	175.01	294.25	250.80	43.45	6.772	0			
5,950.00	5,694.23	5,957.68	5,781.62	22.93	21.90	174.92	297.49	253.62	43.87	6.780	0			
6,000.00	5,740.91	6,008.41	5,830.01	23.15	22.11	174.86	300.61	256.31	44.30	6.786	0			
6,050.00	5,787.58	6,058.04	5,877.31	23.37	22.31	174.82	303.65	258.93	44.72	6.790	0			
6,100.00	5,834.25	6,106.82	5,923.86	23.59	22.51	174.80	306.84	261.70	45.14	6.798	0			
6,150.00	5,880.92	6,157.00	5,971.78	23.81	22.72	174.79	310.14	264.58	45.56	6.808	0			
6,200.00	5,927.59	6,208.05	6,020.48	24.03	22.93	174.77	313.28	267.30	45.98	6.813	0			
6,250.00	5,974.26	6,258.59	6,068.64	24.25	23.13	174.74	316.27	269.86	46.41	6.815	0			
6,300.00	6,021.08	6,308.99	6,116.65	24.46	23.34	174.71	318.77	271.86	46.90	6.796	0			
6,350.00	6,068.20	6,355.96	6,161.44	24.68	23.53	174.69	320.56	273.19	47.37	6 767	0			
6,400.00	6,115.60	6,402.46	6,205.94	24.89	23.72	174.70	322.02	274.20	47.82		0			
6,450.00	6,163.27	6,448.01	6,249.69	25.10	23.91	174.75	323.22	274.97		6.699	0			
6,500.00	6,211.20	6,493.37	6,293.44	25.30	24.09	174.81	324.26	275.59	48.66		0			
6,550.00		6,538.82	6,337.45	25.51	24.00	174.90	325.14	276.08		6.628	0			
6,600.00		6,584.30	6,381.63	25.71	24.45	175.02	325.84	276.40	49.44		0			
6,650.00	6,356.38	6,629.19	6,425.39	25.90	24.62	175.16	326.40	276.61		6.555	0			
6,700.00	6,405.18	6,673.76	6,469.01	26.10	24.80	175.33	326.92	276.78	50.14		0			
6,750.00	6,454.17	6,718.58	6,513.00	26.28	24.96	175.53	327.38	276.92		6.488	0			
6,800.00		6,763.62	6,557.34	26.47	25.13	175.72	327.75	276.98		6.456	0			
6,850.00	6,552.63	6,808.71	6,601.84	26.65	25.30	175.89	328.00	276.95		6.425	0			
6,900.00	6,602.08	6,853.87	6,646.52	26.84	25.47	176.03	328.12	276.80		6.393	0			
6,950.00		6,900.49	6,692.74	27.01	25.64	176.14	328.07	276.49	51.58		0			
7,000.00	6,701.32	6,950.03	6,741.87	27.19	25.82	176.23	327.37	275.53		6.315	0			
7,050.00	6,751.08	6,999.45	6,790.90	27.36	25.99	176.32	325.88	273.80	52.07	6.258	0			
7,100.00	6,800.93	7,048.71	6,839.77	27.53	26.17	176.39	323.61	271.31	50.00	6.188	0			

10/9/2022 1:09:31PM

Page 5

COMPASS 5000.1 Build 56



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	•			ED - 027F	509H - O	27F 509H	- O27F 509	H					Offset Site Error:	0.00 us
urvey Prog Refer		-XOMR2_OWS Offse		R1+MS Semi Major	Avie		Die	tance					Offset Well Error:	0.00 us
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	manning	
7,150.00	6,850.83	7,097.46	6,888.16	27.69	26.35	176.45	320.60	268.10	52.50	6.107	0			
7,200.00	6,900.78	7,145.68	6,936.04	27.86	26.52	176.58	316.96	264.28	52.68	6.017	0			
7,250.00	6,950.76	7,193.25	6,983.31	28.01	26.69	176.81	312.73	259.89	52.84	5.919	0			
7,300.00	7,000.76	7,240.24	7,030.02	28.17	26.86	177.13	308.06	255.09	52.97	5.816	0			
7,350.00	7,050.76	7,285.89	7,075.42	28.32	27.02	-84.02	303.44	250.17	53.27	5.697	0			
7,400.00	7,100.76	7,330.29	7,119.67	28.47	27.17	-83.71	299.66	246.10	53.56	5.594	0			
7,450.00	7,150.76	7,374.40	7,163.69	28.62	27.32	-83.51	296.81	242.95	53.86	5.511	0			
7,500.00	7,200.76	7,417.90	7,207.15	28.77	27.47	-83.39	295.01	240.85	54.16	5.447	0			
7,550.00	7,250.76	7,462.49	7,251.74	28.93	27.61	-83.37	294.28	239.83	54.45	5.404	0			
7,600.00	7,300.76	7,511.43	7,300.68	29.08	27.77	-83.38	294.04	239.27	54.76	5.369	0			
7,650.00	7,350.76	7,560.65	7,349.89	29.23	27.93	-83.37	293.96	238.89	55.07	5.338	0			
7,700.00	7,400.76	7,610.61	7,399.86	29.39	28.09	-83.38	293.94	238.56	55.39	5.307	0			
7,750.00	7,450.76	7,660.63	7,449.88	29.54	28.25	-83.40	293.93	238.23		5.277	0			
7,800.00	7,500.76	7,710.76	7,500.01	29.69	28.41	-83.42	293.90	237.88		5.247	0			
7,850.00	7,550.76	7,760.73	7,549.98	29.85	28.57	-83.43	293.85	237.52	56.33	5.217	0			
7,900.00	7,600.76	7,810.53	7,599.78	30.00	28.73	-83.45	293.83	237.19		5.188	0			
7 005 49	7 606 24	7 815 00	7 605 04	20.02	20.75	02.45	202.92	007.45	EC 07	E 104	0			
7,905.48	7,606.24	7,815.99	7,605.24	30.02	28.75	-83.45	293.83	237.15		5.184	0 0			
7,950.00 8,000.00	7,650.76	7,860.48	7,649.72 7,699.78	30.16	28.89	-83.47	293.83 293.84	236.88		5.159	0			
8,000.00	7,700.76 7,744.14	7,910.53 7,953.90	7,743.14	30.31 30.45	29.04 29.18	-83.49 -83.50	293.84	236.57 236.29		5.131 5.107	0			
8,050.00	7,750.76	7,960.50	7,749.75	30.43	29.20	-83.50	293.83	236.25		5.103	0			
	1,100.10	1,000.00	1,140.10	00.47	20.20	00.00		200.20	07.00	0.100				
8,100.00	7,800.76	8,010.43	7,799.67	30.62	29.36	-83.51	293.84	235.95		5.076	0			
8,150.00	7,850.76	8,060.33	7,849.58	30.78	29.52	-83.50	293.86	235.66		5.049	0			
8,200.00	7,900.76	8,110.24	7,899.48	30.93	29.67	-83.50	293.90	235.38		5.023	0			
8,250.00	7,950.76	8,160.59	7,949.83	31.09	29.83	-83.51	293.92	235.09		4.996	0			
8,300.00	8,000.76	8,210.99	8,000.24	31.25	29.99	-83.52	293.87	234.72	59.15	4.968	0			
8,350.00	8,050.76	8,260.70	8,049.95	31.40	30.16	-83.53	293.82	234.35	59.47	4.941	0			
8,382.77	8,083.53	8,293.28	8,082.53	31.51	30.26	-83.52	293.81	234.13	59.67	4.924	0			
8,400.00	8,100.76	8,310.44	8,099.69	31.56	30.32	-83.52	293.81	234.03	59.78	4.915	0			
8,450.00	8,150.76	8,360.48	8,149.73	31.72	30.48	-83.52	293.82	233.72	60.10	4.889	0			
8,500.00	8,200.76	8,410.46	8,199.71	31.88	30.64	-83.53	293.82	233.40	60.42	4.863	0			
8,550.00	8,250.76	8,460.21	8,249.46	32.03	30.79	-83.56	293.85	233.12	60.72	4.838	0			
8,600.00	8,300.76	8,509.62	8,298.87	32.03	30.79	-83.62	293.83	232.88		4.815	0			
8,650.00	8,350.76	8,558.26	8,347.50	32.15	31.10	-83.74	293.33	232.83		4.794	0			
8,700.00	8,400.76	8,606.82	8,347.50	32.55	31.10	-83.95	294.20	232.83	61.68		0			
8,750.00	8,450.76	8,655.24	8,444.43	32.67	31.41	-84.24	294.70	233.47		4.766	0			
0,700.00	0,100.10	0,000.21	0,11110	02.07	0	01.21	200.11	200.11						
8,800.00	8,500.76	8,704.14	8,493.29	32.83	31.56	-84.62	296.49	234.18		4.758	0			
8,850.00	8,550.76	8,753.77	8,542.84	32.98	31.71	-85.10	297.61	234.98		4.752	0			
8,900.00	8,600.76	8,805.25	8,594.23	33.14	31.88	-85.67	298.74	235.78		4.745	0			
8,950.00	8,650.76	8,858.77	8,647.67	33.30	32.04	-86.17	299.38	236.08		4.729	0			
9,000.00	8,700.76	8,910.55	8,699.42	33.46	32.21	-86.52	299.54	235.90	63.63	4.707	0			
9,050.00	8,750.76	8,961.65	8,750.52	33.62	32.38	-86.67	299.50	235.54	63.96	4.682	0			
9,100.00		9,011.72	8,800.58	33.78	32.55	-86.69	299.36	235.07	64.29		0			
9,150.00		9,061.61	8,850.47	33.94	32.71	-86.70	299.23	234.61		4.631	0			
9,200.00	8,900.76	9,111.13	8,900.00	34.10	32.87	-86.71	299.15	234.21		4.607	0			
9,224.43	8,925.19	9,135.32	8,924.19	34.18	32.95	-86.71	299.14	234.04	65.09	4.595	0			
9,250.00	8,950.76	9,160.66	8,949.52	24.26	33.04	-86.70	299.15	222 0 0	65.26	4.584	0			
		9,160.66	8,949.52 8,999.57	34.26 34.43	33.04 33.20	-86.70	299.15	233.89 233.61		4.562	0			
9,300.00 9,350.00		9,210.70	8,999.57 9,049.59	34.43 34.59	33.20 33.36	-86.70	299.18	233.61		4.562	0			
9,350.00		9,260.73 9,310.65	9,049.59 9,099.52	34.59 34.75	33.36 33.52	-86.68	299.21	233.32		4.541	0			
9,400.00 9,450.00		9,310.65	9,099.52 9,149.46	34.75	33.68	-86.69	299.25	233.03		4.519	0			
5,450.00	5,150.70	0,000.00	5,145.40	04.01	00.00	00.09	200.20	202.10	00.00		5			
9,500.00	9,200.76	9,410.60	9,199.47	35.07	33.83	-86.69	299.34	232.49	66.86	4.477	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Des urvey Progr	ram: 185	-XOMR2_OWS	G MWD+IFF			27F 509H							Offset Site Error: Offset Well Error:	0.00 us 0.00 us
Refere		Offse		Semi Major				tance						
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
9,550.00	9,250.76	9,460.63	9,249.49	35.23	33.99	-86.69	299.39	232.21	67.18	4.457	0			
9,600.00	9,300.76	9,510.69	9,299.56	35.39	34.15	-86.69	299.43	231.93	67.50	4.436	0			
9,650.00	9,350.76	9,560.61	9,349.47	35.56	34.32	-86.68	299.46	231.64	67.82		0			
9,700.00	9,400.76	9,610.34	9,399.21	35.72	34.48	-86.67	299.53	231.39	68.14		0			
9,750.00	9,450.76	9,660.29	9,449.16	35.88	34.64	-86.67	299.64	231.18	68.46		0			
9,800.00	9,500.76	9,710.42	9,499.29	36.04	34.80	-86.67	299.73	230.94	68.78		0			
9,850.00	9,550.76	9,760.40	9,549.26	36.21	34.96 35.12	-86.68	299.80	230.70 230.46	69.11 69.43		0 0			
9,900.00 9,950.00	9,600.76 9,650.76	9,810.29 9,859.48	9,599.16 9,648.35	36.37 36.53	35.12	-86.69 -86.71	299.89 300.05	230.46	69.43		0			
9,950.00	9,850.76	9,859.48 9,908.45	9,646.35 9,697.31	36.53	35.27	-86.76	300.05	230.30	70.07		0			
10,050.00	9,750.76	9,908.45 9,956.96	9,745.82	36.86	35.43	-86.85	300.37	230.50	70.39		0			
10,100.00	9,800.76	10,005.37	9,794.22	37.02	35.74	-86.94	301.68	230.97	70.71		0			
10,150.00	9,850.76	10,005.84	9,794.22 9,844.68	37.02	35.90	-80.94	302.58	230.97	70.71		0			
10,200.00	9,900.76	10,106.65	9,895.47	37.35	36.07	-87.18	303.35	231.98	71.37		0			
10,250.00	9,950.76	10,158.80	9,947.62	37.51	36.23	-87.28	303.88	231.30	71.70		0			
10,300.00	10,000.76	10,210.67	9,999.49	37.68	36.40	-87.30	304.06	232.03	72.03		0			
10,350.00	10,050.76	10,261.10	10,049.92	37.84	36.57	-87.30	304.07	231.71	72.36		0			
10,400.00	10,100.76	10,311.21	10,100.03	38.01	36.73	-87.33	304.02	231.32	72.69		0			
10,424.72	10,125.48	10,335.66	10,124.48	38.09	36.82	-87.34	304.01	231.15	72.86		0			
10,450.00	10,120.40	10,360.66	10,124.40	38.17	36.90	-87.36	304.01	230.99	73.02		0			
10,500.00	10,200.76	10,410.39	10,199.21	38.34	37.06	-87.38	304.10	230.75	73.35		0			
10,550.00	10,250.76	10,460.51	10,249.33	38.50	37.22	-87.39	304.18	230.50	73.68	4.128	0			
10,600.00	10,300.76	10,510.79	10,299.61	38.66	37.39	-87.39	304.23	230.22	74.01	4.111	0			
10,650.00	10,350.76	10,561.22	10,350.04	38.83	37.56	-87.40	304.22	229.88	74.34	4.092	0			
10,700.00	10,400.76	10,611.45	10,400.27	38.99	37.72	-87.41	304.15	229.48	74.67	4.073	0			
10,750.00	10,450.76	10,661.55	10,450.37	39.16	37.89	-87.41	304.06	229.05	75.01	4.054	0			
10,800.00	10,500.76	10,711.34	10,500.15	39.33	38.06	-87.40	303.97	228.63	75.34	4.035	0			
10,850.00	10,550.76	10,761.02	10,549.84	39.49	38.23	-87.38	303.93	228.26	75.67	4.017	0			
10,900.00	10,600.76	10,811.04	10,599.85	39.66	38.40	-87.37	303.92	227.92	76.00	3.999	0			
10,950.00	10,650.76	10,861.12	10,649.94	39.82	38.56	-87.35	303.90	227.57	76.33	3.981	0			
10,989.20	10,689.96	10,900.14	10,688.96	39.95	38.69	-87.35	303.89	227.30	76.59	3.968	0			
11,000.00	10,700.76	10,910.89	10,699.70	39.99	38.73	-87.35	303.89	227.23	76.66	3.964	0			
11,050.00	10,750.76	10,960.63	10,749.45	40.15	38.90	-87.35	303.92	226.93	76.99	3.948	0			
11,100.00	10,800.76	11,010.35	10,799.17	40.32	39.06	-87.37	303.99	226.67	77.32	3.932	0			
11,150.00	10,850.76	11,060.17	10,848.98	40.49	39.22	-87.39	304.11	226.46	77.65	3.916	0			
11,200.00	10,900.76	11,110.63	10,899.45	40.65	39.39	-87.42	304.20	226.21	77.98	3.901	0			
11,250.00	10,950.76	11,160.94	10,949.76	40.82	39.56	-87.46	304.21	225.89	78.32	3.884	0			
11,300.00	11,000.76	11,210.81	10,999.63	40.99	39.72	-87.50	304.22	225.57	78.65		0			
11,350.00	11,050.76	11,260.66	11,049.47	41.15	39.89	-87.53	304.26	225.27	78.99		0			
11,400.00	11,100.76	11,310.47	11,099.29	41.32	40.05	-87.56	304.32	225.00	79.32		0			
11,450.00	11,150.76	11,360.28	11,149.10	41.49	40.22	-87.58	304.41	224.76	79.65		0			
11,500.00	11,200.76	11,410.09	11,198.90	41.65	40.38	-87.60	304.54	224.55	79.98	3.807	0			
11,550.00	11,250.76	11,460.32	11,249.13	41.82	40.55	-87.60	304.67	224.36	80.32	3.793	0			
11,600.00	11,300.76	11,510.92	11,299.73	41.99	40.71	-87.60	304.73	224.08	80.65	3.778	0			
11,618.33	11,319.09	11,529.36	11,318.17	42.05	40.78	-87.60	304.72	223.95	80.77		0			
11,650.00	11,350.76	11,559.99	11,348.80	42.15	40.88	-87.60	304.77	223.79	80.98	3.763	0			
11,700.00	11,400.76	11,609.99	11,398.80	42.32	41.04	-87.60	304.93	223.61	81.31		0			
11,750.00	11,450.76	11,659.99	11,448.80	42.49	41.21	-87.59	305.08	223.44	81.64		0			
11,800.00	11,500.76	11,675.00	11,463.82	42.66	41.26	-87.59	307.24	225.38	81.86		0			
11,850.00	11,550.76	11,675.00	11,463.82	42.82	41.26	-87.59	317.00	234.98	82.03		0			
11,900.00	11,600.76	11,675.00	11,463.82	42.99	41.26	-87.59	334.04	251.85	82.19	4.064	0			
11,950.00	11,650.76	11,675.00	11,463.82	43.16	41.26	-87.59	357.32	274.96	82.36	4.339	0			

10/9/2022 1:09:31PM

Page 7



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	sign	OUTRI	DER 27 FE	ED - 027F	509H - O	27F 509H	- O27F 509	H .					Offset Site Error:	0.00 usft
Survey Prog	ram: 185-	-XOMR2_OWS	G MWD+IFR	1+MS									Offset Well Error:	0.00 usft
Refer	ence	Offse	et	Semi Major	Axis		Dis	tance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
12.000.00	11.700.76	11.675.00	11.463.82	43.33	41.26	-87.59	385.71	303.18		4.674				

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

offset Des				ED - 027F	509H - O	27F 509H ·	PLAN 4						Offset Site Error:	0.00 u
rvey Progr Refere		OMR2_OWSG Offse		MS Semi Major	Avio		Die	tance					Offset Well Error:	0.00 L
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	warning	
0.00	0.00	0.00	0.00	0.00	0.00	179.62	29.92				0			
50.00	50.00	49.00	49.00	0.04	0.06	49.78	29.86	29.77	0.10	306.702	0			
100.00	100.00	99.00	99.00	0.13	0.12	50.03	29.75	29.50		119.062	0			
150.00	150.00	149.00	149.00	0.22	0.30	50.46	29.57	29.05		57.261	0			
200.00	200.00	199.00	199.00	0.36	0.48	60.13	29.33	28.50		35.042	0			
250.00	250.00	249.00	249.00	0.54	0.66	54.21	29.11	27.91		24.352	0			
300.00	299.99	298.99	298.99	0.71	0.84	38.51	28.82	27.26		18.550	0			
350.00	349.99	348.99	348.99	0.89	1.02	11.78	28.48	26.57		14.915	0			
400.00	399.99	398.99	398.99	1.07	1.20	-26.35	28.15	25.88	2.26	12.431	0			
450.00	449.99	448.99	448.99	1.24	1.38	-42.21	27.81	25.20		10.625	0			
500.00	499.99	498.99	498.99	1.42	1.56	-50.51	27.44	24.47	2.97	9.238	0			
550.00	549.98	548.98	548.98	1.59	1.73	-56.34	27.05	23.73	3 3 2	8.137	0			
600.00	599.98	598.98	598.98	1.55	1.73	-61.11	26.66	22.98		7.246	0			
650.00	649.97	648.97	648.97	1.94	2.09	-64.15	26.21	22.30		6.497	0			
700.00	699.95	648.97 698.95	698.95	2.12	2.09	-64.15	25.69	22.18		5.853	0			
											0			
750.00	749.93	748.93	748.93	2.30	2.45	-70.07	25.13	20.39	4.74	5.296	U			
800.00	799.90	798.90	798.90	2.47	2.63	-74.42	24.58	19.48	5.10	4.819	0			
850.00	849.85	848.85	848.85	2.65	2.81	-80.91	24.15	18.69	5.46	4.424	0			
900.00	899.80	898.80	898.80	2.83	2.99	-87.00	23.91	18.09	5.81	4.112	0			
926.76	926.52	925.52	925.52	2.92	3.08	-90.00	23.87	17.87	6.01	3.975	0		СС	
950.00	949.73	948.73	948.73	3.01	3.17	-92.77	23.90	17.73	6.17	3.873	0			
1,000.00	999.65	998.65	998.65	3.19	3.35	-98.65	24.19	17.66		3.705	0			
1,050.00	1,049.55	1,048.55	1,048.55	3.36	3.53	-104.75	24.83	17.94		3.605	0			
1,100.00	1,099.44	1,098.44	1,098.44	3.54	3.70	-111.53	25.85	18.60		3.567	0			
1,150.00	1,149.35	1,148.35	1,148.35	3.72	3.88	-124.56	27.20	19.59	7.60	3.577	0			
1,200.00	1,199.28	1,198.28	1,198.28	3.90	4.06	-145.46	29.09	21.13	7.96	3.654	0			
1,250.00	1,249.23	1,247.74	1,247.74	4.08	4.24	-164.51	31.38	23.07	0.21	3.776	0			
	1,299.20	1,247.74					34.45			3.980	0			
1,300.00 1,350.00	1,299.20		1,297.09	4.25 4.42	4.41 4.58	167.77	34.45 37.61	25.79		4.181	0			
		1,346.42	1,346.35			144.93		28.61						
1,400.00	1,399.17	1,395.67	1,395.52	4.59	4.74	87.30	40.88	31.55		4.380	0			
1,450.00	1,449.17	1,444.86	1,444.56	4.76	4.91	53.49	44.22	34.55	9.67	4.573	0			
1,500.00	1,499.14	1,493.97	1,493.45	4.92	5.08	53.13	47.86	37.86	10.00	4.785	0			
1,550.00	1,549.09	1,543.00	1,542.18	5.09	5.25	52.83	51.80	41.46	10.34	5.011	0			
1,600.00	1,599.00	1,591.95	1,590.73	5.26	5.42	43.70	55.85	45.19	10.67		0			
1,650.00	1,648.85	1,640.85	1,639.11	5.43	5.59	37.83	59.88	48.88	11.00		0			
1,700.00	1,698.64	1,689.69	1,687.31	5.60	5.77	33.80	63.86	52.54	11.33		0			
1,750.00	1,748.34	1,738.47	1,735.30	5.77	5.94	30.86	67.80	56.15	11.65		0			
1,800.00	1,797.95	1,787.19	1,783.08	5.94	6.11	28.62	71.71	59.73	11.98	5.988	0			
1,850.00	1,847.45	1,835.85	1,830.64	6.11	6.29	26.84	75.57	63.27	12.30	6.144	0			
1,900.00	1,896.82	1,884.45	1,877.96	6.29	6.46	25.37	79.39	66.77	12.62	6.291	0			
1,950.00	1,946.05	1,933.00	1,925.03	6.46	6.64	24.12	83.17	70.23	12.94	6.427	0			
2 000 00	1 005 10	1 004 00	1 070 00	0.00	6.04	22.04	00 07	70.64	40.00	6 552	0			
2,000.00	1,995.12	1,981.88	1,972.22	6.63	6.81	23.04	86.87	73.61	13.26		0			
2,050.00	2,044.02	2,031.79	2,020.34	6.80	7.00	22.19	89.93	76.34	13.58		0			
2,100.00	2,092.73	2,081.74	2,068.51	6.98	7.18	21.59	92.14	78.24	13.90		0			
2,150.00	2,141.24	2,131.72	2,116.70	7.15	7.37	21.21	93.50	79.28	14.22		0			
2,200.00	2,189.53	2,181.71	2,164.91	7.33	7.55	21.02	94.01	79.47	14.54	6.466	0			
2,250.00	2,237.60	2,231.70	2,213.12	7.51	7.74	21.02	93.68	78.82	14.86	6.305	0			
2,300.00	2,285.41	2,281.68	2,261.31	7.69	7.93	21.02	92.51	77.33	15.18		0			
2,350.00	2,203.41	2,331.63	2,309.47	7.87	8.12	21.60	90.51	75.01	15.50		0			
2,350.00	2,332.97	2,331.03	2,357.59	8.05	8.30	21.00	87.68	71.87	15.82		0			
2,400.00	2,380.25	2,301.52	2,357.59	8.05	8.49	22.23	84.05	67.91	15.62		0			
∠,400.00	2,421.24	2,431.30	2,403.03	0.24	0.49	23.14	04.00	07.91	10.14	5.200	v			
2,500.00	2,473.96	2,481.13	2,453.64	8.42	8.68	24.46	79.71	63.22	16.49	4.835	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

ffset De Irvey Prog Refer	ram: 0-X0	OMR2_OWSG	MWD+IFR1+	ED - O27F ·MS Semi Major		211 00011		tance					Offset Site Error: Offset Well Error:	0.00 u: 0.00 u:
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	warning	
2,550.00	2,520.63	2,530.89	2,501.62	8.61	8.87	26.11	75.30	58.43	16.88	4.462	0			
2,600.00	2,567.30	2,580.64	2,549.59	8.80	9.06	27.97	70.96	53.70	17.27	4.109	0			
2,650.00	2,613.97	2,630.40	2,597.57	8.99	9.25	30.06	66.71	49.04	17.67	3.776	0			
2,700.00	2,660.64	2,680.15	2,645.55	9.18	9.45	32.44	62.55	44.48	18.07	3.461	0			
2,750.00	2,707.32	2,729.91	2,693.53	9.38	9.64	35.15	58.52	40.04	18.48	3.166	0			
2,800.00	2,753.99	2,779.66	2,741.51	9.57	9.83	38.25	54.64	35.74	18.90	2.891	0			
2,850.00	2,800.66	2,829.42	2,789.49	9.77	10.02	41.81	50.94	31.61	19.33	2.635	0			
2,900.00	2,847.33	2,879.17	2,837.46	9.97	10.22	45.91	47.47	27.70	19.77	2.401	0			
2,950.00	2,894.00	2,928.93	2,885.44	10.17	10.41	50.62	44.28	24.06	20.22	2.190	0			
3,000.00	2,940.67	2,978.68	2,933.42	10.37	10.60	56.01	41.43	20.75	20.68	2.004	0			
3,050.00	2,987.34	3,028.44	2,981.40	10.57	10.80	62.14	39.00	17.86	21.14	1.845	0			
3,100.00	3,034.01	3,078.19	3,029.38	10.77	10.99	68.97	37.08	15.47	21.61	1.716	0			
3,150.00	3,080.68	3,127.95	3,077.36	10.97	11.18	76.43	35.74	13.67	22.08		0			
3,200.00	3,127.35	3,177.70	3,125.33	11.17	11.38	84.32	35.05	12.53	22.52	1.556	0			
3,224.90	3,150.59	3,202.48	3,149.23	11.28	11.48	88.33	34.97	12.23	22.74	1.538	0			
3,250.00	3,174.02	3,227.46	3,173.31	11.38	11.57	92.36	35.05	12.11	22.95	1.528	0		ES, SF	
3,300.00	3,220.69	3,277.21	3,221.29	11.58	11.77	100.25	35.74	12.40	23.34	1.531	0			
3,350.00	3,267.36	3,326.97	3,269.27	11.79	11.96	107.71	37.09	13.37	23.72		0			
3,400.00	3,314.03	3,376.72	3,317.25	11.99	12.16	114.54	39.01	14.94	24.07		0			
3,450.00	3,360.70	3,426.48	3,365.22	12.20	12.36	120.66	41.44	17.02	24.42		0			
3,500.00	3,407.37	3,476.24	3,413.20	12.41	12.55	126.05	44.29	19.53	24.76		0			
3,550.00	3,454.05	3,525.99	3,461.18	12.62	12.75	130.76	47.48	22.37	25.11	1 801	0			
3,600.00	3,500.72	3,575.75	3,509.16	12.82	12.73	134.86	50.96	25.49	25.46		0			
3,650.00	3,547.39	3,625.50	3,557.14	13.03	13.14	134.00	54.66	28.84	25.82		0			
3,700.00	3,594.06	3,675.26	3,605.12	13.24	13.14	141.51	58.54	32.36	26.18		0			
3,750.00	3,640.73	3,725.01	3,653.09	13.45	13.53	144.22	62.57	36.02	26.55		0			
3,800.00	3,687.40	3,774.77	3,701.07	13.66	13.73	146.60	66.73	39.80	26.92		0			
3,850.00	3,734.07	3,824.52	3,749.05	13.87	13.93	148.69	70.98	43.68	27.30		0			
3,900.00	3,780.74	3,874.28	3,797.03	14.08	14.12	150.55	75.32	47.64	27.68		0			
3,950.00 4,000.00	3,827.41 3,874.08	3,924.03 3,973.79	3,845.01 3,892.99	14.29 14.51	14.32 14.52	152.20 153.68	79.73 84.20	51.66 55.74	28.07 28.46		0 0			
4,000.00	3,074.00	3,973.79	3,092.99	14.51	14.52	155.06		55.74	20.40	2.909				
4,050.00	3,920.75	4,023.54	3,940.96	14.72	14.72	155.01	88.72	59.87	28.85		0			
4,100.00	3,967.42	4,073.30	3,988.94	14.93	14.91	156.21	93.28	64.04	29.24	3.190	0			
4,150.00	4,014.09	4,123.05	4,036.92	15.14	15.11	157.30	97.88	68.24	29.63		0			
4,200.00	4,060.76	4,172.81	4,084.90	15.36	15.31	158.29	102.51	72.48	30.03		0			
4,250.00	4,107.43	4,222.56	4,132.88	15.57	15.51	159.20	107.16	76.73	30.43	3.522	0			
4,300.00	4,154.10	4,272.32	4,180.86	15.78	15.71	160.03	111.85	81.02	30.83	3.628	0			
4,350.00	4,200.78	4,322.07	4,228.83	16.00	15.90	160.79	116.55	85.32	31.23		0			
4,400.00	4,247.45	4,371.83	4,276.81	16.21	16.10	161.49	121.27	89.64	31.63	3.834	0			
4,450.00	4,294.12	4,421.59	4,324.79	16.42	16.30	162.14	126.01	93.98	32.03	3.934	0			
4,500.00	4,340.79	4,471.34	4,372.77	16.64	16.50	162.75	130.76	98.33	32.44	4.031	0			
4,550.00	4,387.46	4,521.10	4,420.75	16.85	16.70	163.31	135.53	102.69	32.84	4.127	0			
4,600.00	4,434.13	4,570.85	4,468.72	17.07	16.90	163.83	140.31	107.07	33.25		0			
4,650.00	4,480.80	4,620.61	4,516.70	17.28	17.09	164.32	145.10	111.45	33.65		0			
4,700.00	4,527.47	4,670.36	4,564.68	17.50	17.29	164.77	149.90	115.84	34.06		0			
4,750.00	4,574.14	4,720.12	4,612.66	17.71	17.49	165.20	154.71	120.25	34.46		0			
	4 600 04										0			
4,800.00 4,850.00	4,620.81 4,667.48	4,769.87 4,819.63	4,660.64 4,708.62	17.93 18.15	17.69 17.89	165.61 165.98	159.53 164.35	124.66 129.07	34.87 35.28		0 0			
4,900.00	4,714.15	4,869.38	4,756.59	18.36	18.09	166.34	169.18	133.49	35.69		0 0			
4,950.00 5,000.00	4,760.82 4,807.49	4,919.14 4,968.89	4,804.57 4,852.55	18.58 18.79	18.29 18.49	166.68 167.00	174.02 178.86	137.92 142.36	36.10 36.51		0			
	7,007.49				10.49						0			
5,050.00	4,854.16	5,018.65	4,900.53	19.01	18.69	167.30	183.71	146.80	36.92	4.976	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

ffset De: Irvey Progi		OUTRIL DMR2_OWSG		ED - O27F	509H - O	27F 509H ·	PLAN 4						Offset Site Error: Offset Well Error:	0.00 us
Refer		Offse		Semi Major	Axis		Dis	tance					Offset well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
5,100.00	4,900.83	5,068.40	4,948.51	19.23	18.89	167.59	188.56	151.24	37.33	5.052	0			
5,150.00	4,947.50	5,118.16	4,996.49	19.45	19.08	167.86	193.42	155.69	37.74	5.126	0			
5,200.00	4,994.18	5,167.91	5,044.46	19.66	19.28	168.12	198.28	160.14	38.15	5.198	0			
5,250.00	5,040.85	5,217.67	5,092.44	19.88	19.48	168.37	203.15	164.59	38.56	5.269	0			
5,300.00	5,087.52	5,267.43	5,140.42	20.10	19.68	168.60	208.02	169.05	38.97	5.338	0			
5,350.00	5,134.19	5,317.18	5,188.40	20.31	19.88	168.83	212.89	173.51	39.38	5.406	0			
5,400.00	5,180.86	5,366.94	5,236.38	20.53	20.08	169.04	217.77	177.97	39.79	5 473	0			
5,450.00	5,227.53	5,416.69	5,284.36	20.75	20.28	169.25	222.64	182.44	40.20		0			
5,500.00	5,274.20	5,466.45	5,332.33	20.97	20.48	169.44	227.52	186.91	40.62		0			
5,550.00	5,320.87	5,516.20	5,380.31	21.19	20.68	169.63	232.41	191.38	41.03		0			
5,600.00	5,367.54	5,565.96	5,428.29	21.40	20.88	169.81	237.29	195.85	41.44		0			
5,650.00	5,414.21	5,615.71	5,476.27	21.62	21.08	169.99	242.18	200.33	41.85		0			
5,700.00	5,460.88	5,665.47	5,524.25	21.84	21.28	170.15	247.07	204.81	42.27		0			
5,750.00	5,507.55	5,715.22	5,572.23	22.06	21.48	170.31	251.96	209.28	42.68		0			
5,800.00	5,554.22	5,764.98	5,620.20	22.28	21.68	170.47	256.86	213.76	43.09		0			
5,850.00	5,600.89	5,814.73	5,668.18	22.49	21.88	170.61	261.75	218.25	43.51	6.016	0			
5,900.00	5,647.56	5,864.49	5,716.16	22.71	22.08	170.76	266.65	222.73	43.92	6.071	0			
5,950.00	5,694.23	5,914.24	5,764.14	22.93	22.28	170.89	271.55	227.22	44.33	6.125	0			
6,000.00	5,740.91	5,964.00	5,812.12	23.15	22.48	171.03	276.45	231.70	44.75	6.178	0			
6,050.00	5,787.58	6,013.75	5,860.09	23.37	22.68	171.15	281.35	236.19	45.16	6.230	0			
6,100.00	5,834.25	6,063.51	5,908.07	23.59	22.88	171.28	286.26	240.68	45.58	6.281	0			
6,150.00	5,880.92	6,113.26	5,956.05	23.81	23.08	171.40	291.16	245.17	45.99	6.331	0			
6,200.00	5,927.59	6,163.02	6,004.03	24.03	23.28	171.51	296.07	249.66	46.41		0			
6,250.00	5,974.26	6,212.78	6,052.01	24.25	23.48	171.62	300.97	254.15	46.82		0			
6,300.00	6,021.08	6,262.57	6,100.02	24.46	23.68	171.73	305.47	258.16	47.31		0			
6,350.00	6,068.20	6,312.44	6,148.11	24.68	23.88	171.81	309.10	261.31	47.79		0			
6,400.00	6,115.60	6,362.36	6,196.25	24.89	24.08	171.87	311.87	263.62	48.25		0			
6,450.00	6,163.27	6,412.32	6,244.43	25.10	24.28	171.90	313.78	265.08	48.70		0			
6,500.00	6,211.20	6,462.31	6,292.63	25.30	24.48	171.90	314.83	265.69	49.14		0			
6,550.00	6,259.37	6,512.31	6,340.84	25.51	24.69	171.88	315.01	265.45	49.56		0			
6,600.00	6,307.77	6,561.30	6,388.08	25.71	24.88	171.83	314.34	264.38	49.96	6.291	0			
6,650.00	6,356.38	6,606.41	6,431.72	25.90	25.06	171.78	313.35	263.01	50.33	6.225	0			
6,700.00	6,405.18	6,651.53	6,475.53	26.10	25.24	171.73	312.26	261.57	50.69	6.161	0			
6,750.00	6,454.17	6,700.00	6,522.78	26.28	25.43	171.68	311.11	260.08	51.04	6.096	0			
6,800.00	6,503.33	6,741.81	6,563.68	26.47	25.59	171.63	309.84	258.50	51.34	6.035	0			
6,850.00	6,552.63	6,786.98	6,608.00	26.65	25.76	171.57	308.50	256.86	51.64	5.974	0			
6,900.00	6,602.08	6,832.16	6,652.47	26.84	25.93	171.52	307.08	255.16	51.92	5 914	0			
6,950.00	6,651.64	6,877.37	6,697.08	27.01	26.10	171.46	305.57	253.39	52.19		0			
7,000.00	6,701.32	6,922.59	6,741.82	27.19	26.27	171.40	303.98	251.55	52.44		0			
7,050.00	6,751.08	6,967.84	6,786.67	27.36	26.43	171.34	302.31	249.65	52.66		0			
7,100.00	6,800.93	7,013.10	6,831.64	27.53	26.60	171.28	300.56	247.68	52.88		0			
7,150.00		7,058.40	6,876.71	27.69	26.76	171.21	298.72	245.65		5.629	0			
7,200.00	6,900.78	7,100.00	6,918.17	27.86	26.90	171.15	296.82	243.59	53.23		0			
7,250.00	6,950.76	7,149.05	6,967.10	28.01	27.07	171.08	294.80	241.40	53.40		0			
7,300.00	7,000.76	7,194.42	7,012.41	28.17	27.23	171.01	292.71	239.18	53.54		0			
7,350.00	7,050.76	7,239.83	7,057.79	28.32	27.38	-90.58	290.95	237.11	53.83	5.405	0			
7,400.00	7,100.76	7,285.28	7,103.23	28.47	27.53	-90.61	289.96	235.82	54.13	5.356	0			
7,450.00	7,150.76	7,331.81	7,149.76	28.62	27.68	-90.61	289.73	235.30	54.43	5.323	0			
7,500.00	7,200.76	7,381.81	7,199.76	28.77	27.84	-90.61	289.73	234.99	54.74	5.293	0			
7,550.00	7,250.76	7,431.81	7,249.76	28.93	28.00	-90.61	289.73	234.68	55.04	5.264	0			
7,600.00	7,300.76	7,481.81	7,299.76	29.08	28.16	-90.61	289.73	234.38	55.35	5.234	0			
7,650.00	7,350.76	7,531.81	7,349.76	29.23	28.32	-90.61	289.73	234.07	55.66	5 205	0			
,,000.00	1,000.10	1,001.01	1,548.10	29.23	20.32	-90.01	203.13	234.07	00.00	0.200	5			

10/9/2022 1:09:31PM

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Page 11

COMPASS 5000.1 Build 56



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Des urvey Progr	-	OUTRIE OMR2_OWSG		ED - O27F	509H - O	27F 509H	- PLAN 4						Offset Site Error: Offset Well Error:	0.00 u: 0.00 u:
Refere	ence	Offse	et	Semi Major	Axis		Dis	stance						
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
7,700.00	7,400.76	7,581.81	7,399.76	29.39	28.48	-90.61	289.73	233.76	55.97	5.177	0			
7,750.00	7,450.76	7,631.81	7,449.76	29.54	28.64	-90.61	289.73	233.45	56.28	5.148	0			
7,800.00	7,500.76	7,681.81	7,499.76	29.69	28.80	-90.61	289.73	233.14	56.59	5.120	0			
7,850.00	7,550.76	7,731.81	7,549.76	29.85	28.96	-90.61	289.73	232.83	56.90	5.092	0			
7,900.00	7,600.76	7,781.81	7,599.76	30.00	29.12	-90.61	289.73	232.52	57.21	5.065	0			
7,950.00	7,650.76	7,831.81	7,649.76	30.16	29.28	-90.61	289.73	232.21	57.52	5.037	0			
8,000.00	7,700.76	7,881.81	7,699.76	30.31	29.44	-90.61	289.73	231.90	57.83	5.010	0			
8,050.00	7,750.76	7,931.81	7,749.76	30.47	29.60	-90.61	289.73	231.58	58.14	4.983	0			
8,100.00	7,800.76	7,981.81	7,799.76	30.62	29.76	-90.61	289.73	231.27	58.46	4.956	0			
8,150.00	7,850.76	8,031.81	7,849.76	30.78	29.92	-90.61	289.73	230.96	58.77	4.930	0			
8,200.00	7,900.76	8,081.81	7,899.76	30.93	30.09	-90.61	289.73	230.64	59.08	4.904	0			
8,250.00	7,950.76	8,131.81	7,949.76	31.09	30.25	-90.61	289.73	230.33	59.40	4.878	0			
8,300.00	8,000.76	8,181.81	7,999.76	31.25	30.41	-90.61	289.73	230.01	59.71	4.852	0			
8,350.00	8,050.76	8,231.81	8,049.76	31.40	30.57	-90.61	289.73	229.70	60.03	4.827	0			
8,400.00	8,100.76	8,281.81	8,099.76	31.56	30.74	-90.61	289.73	229.38	60.34	4.801	0			
8,450.00	8,150.76	8,331.81	8,149.76	31.72	30.90	-90.61	289.73	229.07	60.66	4.776	0			
8,500.00	8,200.76	8,381.81	8,199.76	31.88	31.06	-90.61	289.73	228.75	60.98	4 751	0			
8,550.00	8,250.76	8,431.81	8,249.76	32.03	31.22	-90.61	289.73	228.43	61.29		0			
8,600.00	8,300.76	8,481.81	8,299.76	32.03	31.39	-90.61	289.73	228.11	61.61		0			
8,650.00	8,350.76	8,531.81	8,349.76	32.15	31.55	-90.61	289.73	227.80	61.93		0			
8,700.00	8,400.76	8,581.81	8,399.76	32.53	31.71	-90.61	289.73	227.48	62.25		0			
8,750.00	8,450.76	8,631.81	8,449.76	32.67	31.88	-90.61	289.73	227.16	62.57		0			
8,800.00	8,500.76	8,681.81	8,499.76	32.83	32.04	-90.61	289.73	226.84	62.89		0			
8,850.00	8,550.76	8,731.81	8,549.76	32.98	32.21	-90.61	289.73	226.52	63.21		0			
8,900.00	8,600.76	8,781.81	8,599.76	33.14	32.37	-90.61	289.73	226.20	63.53		0			
8,950.00	8,650.76	8,831.81	8,649.76	33.30	32.54	-90.61	289.73	225.88	63.85	4.538	0			
9,000.00	8,700.76	8,881.81	8,699.76	33.46	32.70	-90.61	289.73	225.56	64.17	4.515	0			
9,050.00	8,750.76	8,931.81	8,749.76	33.62	32.86	-90.61	289.73	225.24	64.49	4.492	0			
9,100.00	8,800.76	8,981.81	8,799.76	33.78	33.03	-90.61	289.73	224.91	64.81	4.470	0			
9,150.00	8,850.76	9,031.81	8,849.76	33.94	33.19	-90.61	289.73	224.59	65.14	4.448	0			
9,200.00	8,900.76	9,081.81	8,899.76	34.10	33.36	-90.61	289.73	224.27	65.46	4.426	0			
9,250.00	8,950.76	9,131.81	8,949.76	34.26	33.53	-90.61	289.73	223.95	65.78	4.404	0			
9,300.00	9,000.76	9,181.81	8,999.76	34.43	33.69	-90.61	289.73	223.62	66.10		0			
9,350.00	9,050.76	9,231.81	9,049.76	34.59	33.86	-90.61	289.73	223.30	66.43		0			
9,400.00	9,100.76	9,281.81	9,099.76	34.75	34.02	-90.61	289.73	222.97	66.75		0			
9,450.00	9,150.76	9,331.81	9,149.76	34.91	34.19	-90.61	289.73	222.65	67.08		0			
9,500.00	9,200.76	9,381.81	9,199.76	35.07	34.35	-90.61	289.73	222.33	67.40		0			
9,550.00	9,250.76	9,431.81	9,249.76	35.23	34.52	-90.61	289.73	222.00	67.73		0			
9,600.00	9,300.76	9,481.81	9,299.76	35.39	34.69	-90.61	289.73	221.67	68.05		0			
9,650.00	9,350.76	9,531.81	9,349.76	35.56	34.85	-90.61	289.73	221.35	68.38		0			
9,700.00	9,400.76	9,581.81	9,399.76	35.72	35.02	-90.61	289.73	221.02	68.70	4.217	0			
9,750.00	9,450.76	9,631.81	9,449.76	35.88	35.19	-90.61	289.73	220.70	69.03	4.197	0			
9,800.00	9,500.76	9,681.81	9,499.76	36.04	35.35	-90.61	289.73	220.37	69.36	4.177	0			
9,850.00	9,550.76	9,731.81	9,549.76	36.21	35.52	-90.61	289.73	220.04	69.68		0			
9,900.00	9,600.76	9,781.81	9,599.76	36.37	35.69	-90.61	289.73	219.72	70.01	4.138	0			
9,950.00	9,650.76	9,831.81	9,649.76	36.53	35.86	-90.61	289.73	219.39	70.34	4.119	0			
10,000.00	9,700.76	9,881.81	9,699.76	36.70	36.02	-90.61	289.73	219.06	70.67	4 100	0			
10,000.00	9,700.76 9,750.76	9,881.81 9,931.81	9,699.76 9,749.76	36.70	36.02 36.19	-90.61	289.73	219.06	70.67		0			
10,100.00	9,800.76	9,981.81	9,799.76	37.02	36.36	-90.61	289.73	218.40	71.32		0			
10,150.00 10,200.00	9,850.76 9,900.76	10,031.81 10.081.81	9,849.76 9 899 76	37.19 37.35	36.53 36.69	-90.61 -90.61	289.73 289.73	218.07 217.74	71.65 71.98		0 0			
10,200.00		10,081.81	9,899.76	37.35	30.09	-90.61	209.13	217.74	11.98	7.020	U			
10,250.00	9,950.76	10,131.81	9,949.76	37.51	36.86	-90.61	289.73	217.41	72.31	4.007	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Des	sign	OUTRI	DER 27 FI	ED - 027F	509H - O	27F 509H ·	- PLAN 4						Offset Site Error:	0.00 usft
Survey Progr		OMR2_OWSG											Offset Well Error:	0.00 usft
Refere		Offs		Semi Major				tance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
10,300.00	10,000.76	10,181.81	9,999.76	37.68	37.03	-90.61	289.73	217.09	72.64	3.988	0			
10,350.00	10,050.76	10,231.81	10,049.76	37.84	37.20	-90.61	289.73	216.76	72.97	3.970	0			
10,400.00	10,100.76	10,281.81	10,099.76	38.01	37.37	-90.61	289.73	216.43	73.30	3.953	0			
10,450.00	10,150.76	10,331.81	10,149.76	38.17	37.53	-90.61	289.73	216.09	73.63	3.935	0			
10,500.00	10,200.76	10,381.81	10,199.76	38.34	37.70	-90.61	289.73	215.76	73.96	3.917	0			
10,550.00	10,250.76	10,431.81	10,249.76	38.50	37.87	-90.61	289.73	215.43	74.29	3.900	0			
10,600.00	10,300.76	10,481.81	10,299.76	38.66	38.04	-90.61	289.73	215.10	74.63	3.882	0			
10,650.00	10,350.76	10,531.81	10,349.76	38.83	38.21	-90.61	289.73	214.77	74.96	3.865	0			
10,700.00	10,400.76	10,581.81	10,399.76	38.99	38.38	-90.61	289.73	214.44	75.29	3.848	0			
10,750.00	10,450.76	10,631.81	10,449.76	39.16	38.55	-90.61	289.73	214.11	75.62	3.831	0			
10,800.00	10,500.76	10,681.81	10,499.76	39.33	38.72	-90.61	289.73	213.77	75.95	3.815	0			
10,850.00	10,550.76	10,731.81	10,549.76	39.49	38.89	-90.61	289.73	213.44	76.29	3.798	0			
10,900.00	10,600.76	10,781.81	10,599.76	39.66	39.05	-90.61	289.73	213.11	76.62	3.781	0			
10,950.00	10,650.76	10,831.81	10,649.76	39.82	39.22	-90.61	289.73	212.78	76.95	3.765	0			
11,000.00	10,700.76	10,881.81	10,699.76	39.99	39.39	-90.61	289.73	212.44	77.28	3.749	0			
11,050.00	10,750.76	10,931.81	10,749.76	40.15	39.56	-90.61	289.73	212.11	77.62	3.733	0			
11,100.00	10,800.76	10,981.81	10,799.76	40.32	39.73	-90.61	289.73	211.78	77.95	3.717	0			
11,150.00	10,850.76	11,031.81	10,849.76	40.49	39.90	-90.61	289.73	211.44	78.29	3.701	0			
11,200.00	10,900.76	11,081.81	10,899.76	40.65	40.07	-90.61	289.73	211.11	78.62	3.685	0			
11,250.00	10,950.76	11,131.81	10,949.76	40.82	40.24	-90.61	289.73	210.77	78.95	3.670	0			
11,300.00	11,000.76	11,181.81	10,999.76	40.99	40.41	-90.61	289.73	210.44	79.29	3.654	0			
11,350.00	11,050.76	11,231.81	11,049.76	41.15	40.58	-90.61	289.73	210.10	79.62	3.639	0			
11,400.00	11,100.76	11,281.81	11,099.76	41.32	40.75	-90.61	289.73	209.77	79.96	3.623	0			
11,450.00	11,150.76	11,331.81	11,149.76	41.49	40.92	-90.61	289.73	209.43	80.29	3.608	0			
11,500.00	11,200.76	11,381.81	11,199.76	41.65	41.09	-90.61	289.73	209.10	80.63	3.593	0			
11,550.00	11,250.76	11,431.81	11,249.76	41.82	41.26	-90.61	289.73	208.76	80.96	3.578	0			
11,600.00	11,300.76	11,481.81	11,299.76	41.99	41.43	-90.61	289.73	208.43	81.30	3.564	0			
11,650.00	11,350.76	11,531.81	11,349.76	42.15	41.60	-90.61	289.73	208.09	81.64	3.549	0			
11,700.00	11,400.76	11,581.81	11,399.76	42.32	41.77	-90.61	289.73	207.76	81.97	3.534	0			
11,750.00	11,450.76	11,631.81	11,449.76	42.49	41.95	-90.61	289.73	207.42	82.31	3.520	0			
11,800.00	11,500.76	11,681.81	11,499.76	42.66	42.12	-90.61	289.73	207.08	82.64	3.506	0			
11,850.00	11,550.76	11,731.81	11,549.76	42.82	42.29	-90.61	289.73	206.75	82.98	3.491	0			
11,900.00	11,600.76	11,781.81	11,599.76	42.99	42.46	-90.61	289.73	206.41	83.32	3.477	0			
11,950.00	11,650.76	11,831.81	11,649.76	43.16	42.63	-90.61	289.73	206.07	83.66	3.463	0			
12,000.00	11,700.76	11,881.84	11,699.77	43.33	42.80	-90.38	289.72	205.74	83.99	3.450	0			
12,000.00	.1,700.70	11,001.04	.1,000.77	-0.00	72.00	55.50	200.72	200.74	00.00	0.700	~			

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

Released to Imaging: 12/29/2022 11:35:01 AM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

urvey Prog Refer		XOMR2_OWS		1+MS Semi Major	Axis		Dis	tance						Offset Well Error:	0.00 u
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision		Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-0.19	30.02				0				
50.00	50.00	48.98	48.98	0.04	0.07	-130.21	30.06	29.95		275.559	0		ES		
100.00	100.00	98.95	98.95	0.13	0.15	-130.50	30.23	29.96		110.529	0				
150.00	150.00	148.92	148.92	0.22	0.22	-130.98	30.52	30.08		69.674	0				
200.00	200.00	198.89	198.89	0.36	0.34	-122.61	30.91	30.21		44.552	0				
250.00	250.00	248.86	248.86	0.54	0.52	-130.20	31.35	30.30	1.05	29.815	0				
300.00	299.99	298.82	298.82	0.71	0.69	-147.31	31.92	30.51	1.41	22.645	0				
350.00	349.99	348.81	348.81	0.89	0.87	-175.13	32.56	30.79	1.76	18.451	0				
400.00	399.99	398.82	398.81	1.07	1.05	146.17	33.15	31.03	2.12	15.649	0				
450.00	449.99	448.79	448.78	1.24	1.23	130.22	33.73	31.26	2.47	13.653	0				
500.00	499.99	498.76	498.75	1.42	1.41	122.22	34.38	31.55	2.82	12.178	0				
550.00	549.98	548.80	548.77	1.59	1.59	116.93	35.03	31.85	3 18	11.030	0				
600.00	599.98	598.83	598.79	1.33	1.76	112.77	35.63	32.10		10.097	0				
650.00	649.97	648.89	648.82	1.94	1.94	110.70	36.22	32.34		9.328	0				
700.00	699.95	698.93	698.83	2.12	2.12	109.24	36.82	32.58		8.690	0				
750.00	749.93	748.92	748.78	2.12	2.30	103.24	37.50	32.90		8.165	0				
800.00	799.90	798.90	798.72	2.47	2.48	107.84	38.27	33.32		7.734	0				
850.00	849.85	848.87	848.65	2.65	2.66	106.05	39.11	33.80		7.373	0				
900.00	899.80	898.75	898.49	2.83	2.84	106.08	40.03	34.37		7.072	0				
950.00	949.73	948.49	948.21	3.01	3.01	107.87	41.29	35.27		6.863	0				
1,000.00	999.65	998.37	998.08	3.19	3.19	110.71	42.93	36.55	6.37	6.736	0				
1,050.00	1,049.55	1,048.41	1,048.08	3.36	3.37	113.59	44.71	37.98	6.73	6.643	0		SF		
1,100.00	1,099.44	1,062.00	1,061.67	3.54	3.42	114.36	59.08	52.12		8.491	0				
1,150.00	1,149.35	1,062.00	1,061.67	3.72	3.42	107.59	98.90	91.76		13.858	0				
1,200.00	1,199.28	1,062.00	1,061.67	3.90	3.42	91.31	144.92	137.60		19.811	0				
1,250.00	1,249.23	1,062.00	1,061.67	4.08	3.42	76.71	192.76	185.27		25.739	0				
1,300.00	1,299.20	1,062.00	1,061.67	4.25	3.42	52.79	241.32	233.66		31.495	0				
1,350.00	1,349.18	1,062.00	1,061.67	4.42	3.42	34.93	290.36	282.53		37.076	0				
1,400.00	1,399.17	1,062.00	1,061.67	4.59	3.42	-17.22	339.64	331.64		42.452	0				
1,450.00	1,449.17	1,062.00	1,061.67	4.76	3.42	-45.75	389.17	381.01		47.652	0				
1,500.00	1,499.14	1,062.00	1,061.67	4.92	3.42	-40.47	438.76	430.43	8.33	52.668	0				
1,550.00	1,549.09	1,062.00	1,061.67	5.09	3.42	-36.02	488.36	479.86	8.49	57.499	0				
1,600.00	1,599.00	1,062.00	1,061.67	5.26	3.42	-37.82	537.97	529.32	8.66	62.145	0				
1,650.00	1,648.85	1,062.00	1,061.67	5.43	3.42	-36.33	587.62	578.81	8.82	66.631	0				
1,700.00	1,698.64	1,062.00	1,061.67	5.60	3.42	-33.34	637.28	628.30	8.98	70.974	0				
1,750.00	1,748.34	1,062.00	1,061.67	5.77	3.42	-29.83	686.94	677.80	9.14	75.173	0				
4 000 00	4 707 05	1 000 00	4 004 07	5.04	0.40		700 57	707.00	0.00	70.040					
1,800.00	1,797.95	1,062.00	1,061.67	5.94	3.42	-26.32	736.57	727.28		79.249	0				
1,850.00	1,847.45	1,062.00	1,061.67	6.11	3.42	-23.08	786.18	776.73		83.195	0				
1,900.00	1,896.82	1,062.00	1,061.67	6.29	3.42	-20.19	835.74	826.14		87.033	0				
1,950.00	1,946.05	1,062.00	1,061.67	6.46	3.42 3.42	-17.67	885.27	875.51		90.749	0				
2,000.00	1,995.12	1,062.00	1,061.67	6.63	3.42	-15.50	934.74	924.83	9.90	94.374	0				
2,050.00	2,044.02	1,062.00	1,061.67	6.80	3.42	-13.63	984.15	974.10	10.06	97.854	0				
2,100.00	2,092.73	1,062.00	1,061.67	6.98	3.42	-12.02	1,033.50	1,023.30	10.20	101.314	0				
2,150.00	2,141.24	1,062.00	1,061.67	7.15	3.42	-10.64	1,082.79	1,072.44	10.34	104.668	0				
2,200.00	2,189.53	1,062.00	1,061.67	7.33	3.42	-9.44	1,131.99	1,121.50		107.886	0				
2,250.00	2,237.60	1,062.00	1,061.67	7.51	3.42	-8.41	1,181.12	1,170.49	10.64	111.047	0				
2,300.00	2,285.41	1,062.00	1,061.67	7.69	3.42	-7.50	1,230.17	1,219.39	10.70	114.121	0				
2,350.00	2,265.41	1,062.00	1,061.67	7.69	3.42	-7.50	1,230.17	1,219.39		114.121	0				
2,350.00	2,332.97	1,062.00	1,061.67	8.05	3.42	-6.03	1,279.13	1,200.20		120.041	0				
2,400.00	2,360.25	1,062.00	1,061.67	8.05	3.42		1,327.99	1,365.56		120.041	0				
2,450.00	2,427.24	1,062.00	1,061.67	8.24 8.42	3.42 3.42	-5.42 -5.11	1,376.76	1,365.56		122.888	0				
2,000.00	2,713.30	1,002.00	1,001.07	0.42	3.42	-5.11	1,720.40	1,414.09	11.30	120.770	5				
2,550.00	2,520.63	1,062.00	1,061.67	8.61	3.42	-5.11	1,474.20	1,462.65	11.55	127.639	0				

10/9/2022 1:09:31PM



GeoGuidance





Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

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



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De urvey Prog Refer	ram: 0-X	OMR2_OWSG	MWD+IFR1+	ED - O27F MS Semi Major				tance					Offset Site Error: Offset Well Error:	0.00 us
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-0.19	30.02				0			
50.00	50.00	49.00	49.00	0.04	0.06	-130.19	30.04	29.94		308.485	0			
100.00	100.00	99.00	99.00	0.13	0.12	-130.44	30.15	29.90		120.645	0			
150.00	150.00	149.00	149.00	0.22	0.30	-130.86	30.34	29.82		58.745	0			
200.00	200.00	199.00	199.00	0.36	0.48	-122.39	30.58	29.74		36.531	0			
250.00	250.00	249.00	249.00	0.54	0.66	-129.80	30.83	29.63	1.20	25.792	0			
300.00	299.99	298.99	298.99	0.71	0.84	-146.63	31.14	29.59		20.049	0			
350.00	349.99	348.99	348.99	0.89	1.02	-173.98	31.50	29.59		16.499	0			
400.00	399.99	398.99	398.99	1.07	1.20	148.12	31.82	29.56		14.055	0			
450.00	449.99	448.99	448.99	1.24	1.38	133.26	32.13	29.52		12.276	0			
500.00	499.99	498.99	498.99	1.42	1.56	126.51	32.48	29.51	2.97	10.932	0		ES	
550.00	549.98	548.98	548.98	1.59	1.73	122.74	32.85	29.52		9.880	0			
600.00	599.98	598.98	598.98	1.77	1.91	120.51	33.25	29.57		9.038	0			
650.00	649.97	648.97	648.97	1.94	2.09	120.80	33.75	29.71		8.366	0			
700.00	699.95	698.95	698.95	2.12	2.27	122.11	34.41	30.02		7.839	0			
750.00	749.93	748.93	748.93	2.30	2.45	124.55	35.25	30.50	4.74	7.429	0			
800.00	799.90	798.90	798.90	2.47	2.63	126.40	36.28	31.18	5.10	7.114	0			
850.00	849.85	848.85	848.85	2.65	2.81	127.16	37.51	32.05	5.46	6.874	0			
900.00	899.80	898.80	898.80	2.83	2.99	129.36	38.95	33.14	5.81	6.700	0			
950.00	949.73	948.73	948.73	3.01	3.17	132.60	40.65	34.48		6.590	0			
1,000.00	999.65	998.65	998.65	3.19	3.35	136.28	42.65	36.12	6.53	6.536	0			
1,050.00	1,049.55	1,048.55	1,048.55	3.36	3.53	140.04	44.98	38.10	6.88	6.537	0			
1,100.00	1,099.44	1,098.44	1,098.44	3.54	3.70	142.81	47.55	40.31	7.24	6.569	0			
1,150.00	1,149.35	1,148.35	1,148.35	3.72	3.88	137.88	49.95	42.35	7.60	6.575	0			
1,200.00	1,199.28	1,198.28	1,198.28	3.90	4.06	123.12	51.68	43.73	7.96	6.496	0			
1,250.00	1,249.23	1,247.89	1,247.88	4.08	4.24	108.61	52.80	44.50	8.30	6.358	0			
1,300.00	1,299.20	1,297.40	1,297.38	4.25	4.41	84.88	53.52	44.87	8 65	6.186	0			
1,350.00	1,349.18	1,346.86	1,346.79	4.42	4.58	65.66	54.28	45.29		6.038	0			
1,400.00	1,399.17	1,396.26	1,396.11	4.59	4.75	11.25	54.97	45.65		5.894	0			
1,450.00	1,449.17	1,445.60	1,445.30	4.76	4.92	-18.72	56.52	46.85		5.849	0			
1,500.00	1,499.14	1,494.86	1,494.34	4.92	5.09	-15.45	58.06	48.07		5.809	0			
4 550 00	4 5 40 00	4 5 4 4 0 0		5.00	5.00	10.11	50.50	10.10	10.00	5 704	0			
1,550.00	1,549.09	1,544.03	1,543.21	5.09	5.26	-12.44	59.52	49.19	10.33		0			
1,600.00	1,599.00	1,593.14	1,591.91	5.26	5.43	-18.43	61.11	50.45	10.66		0			
1,650.00	1,648.85	1,642.19	1,640.43	5.43	5.60	-21.32	62.97	51.98	10.99		0			
1,700.00 1,750.00	1,698.64 1,748.34	1,691.17 1,740.10	1,688.77	5.60 5.77	5.77 5.95	-22.54	65.07 67.38	53.76 55.74		5.749	0 0			
1,750.00	1,740.34	1,740.10	1,736.91	5.77	5.95	-22.85	07.30	55.74	11.05	5.786	0			
1,800.00	1,797.95	1,788.97	1,784.83	5.94	6.12	-22.66	69.87	57.90	11.97	5.836	0			
1,850.00	1,847.45	1,837.78	1,832.52	6.11	6.29	-22.20	72.51	60.21	12.30	5.896	0			
1,900.00	1,896.82	1,886.53	1,879.98	6.29	6.47	-21.61	75.28	62.66	12.62	5.965	0			
1,950.00	1,946.05	1,935.23	1,927.18	6.46	6.65	-20.97	78.16	65.22	12.94	6.040	0			
2,000.00	1,995.12	1,983.86	1,974.12	6.63	6.82	-20.32	81.14	67.88	13.26	6.119	0			
2,050.00	2,044.02	2,032.44	2,020.77	6.80	7.00	-19.71	84.19	70.61	13.58	6.199	0			
2,100.00	2,092.73	2,080.96	2,067.14	6.98	7.18	-19.13	87.31	73.41	13.90		0			
2,150.00	2,141.24	2,129.43	2,113.21	7.15	7.36	-18.61	90.48	76.27	14.21		0			
2,200.00	2,189.53	2,177.84	2,158.96	7.33	7.55	-18.15	93.69	79.16	14.53	6.450	0			
2,250.00	2,237.60	2,226.19	2,204.38	7.51	7.73	-17.74	96.93	82.09	14.84	6.532	0			
2,300.00	2,285.41	2,274.49	2,249.47	7.69	7.92	-17.39	100.20	85.05	15.15	6 613	0			
2,350.00	2,285.41	2,274.49	2,249.47	7.09	8.10	-17.39	100.20	88.02	15.15		0			
2,330.00	2,332.97	2,322.73	2,294.21	8.05	8.10	-16.86	105.49	90.99	15.78		0			
2,400.00	2,380.23	2,371.33	2,384.86	8.03	8.49	-16.75	100.77	93.39	16.10		0			
2,430.00	2,427.24	2,421.23	2,384.80	8.42	8.69	-16.69	111.49	95.04	16.45		0			
2,550.00	2,520.63	2,521.17	2,476.71	8.61	8.90	-16.52	113.36	96.52	16.83	6.734	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

ffset De rvey Prog Refer	ram: 0-X	OMR2_OWSG	MWD+IFR1+	ED - O27F MS Semi Major		211 01011		stance					Offset Site Error: Offset Well Error:	0.00 u 0.00 u
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
2,600.00	2,567.30	2,571.14	2,522.63	8.80	9.10	-16.36	115.23	98.01	17.22	6.691	0			
2,650.00	2,613.97	2,621.10	2,568.56	8.99	9.30	-16.20	117.10	99.49	17.61	6.649	0			
2,700.00	2,660.64	2,671.07	2,614.49	9.18	9.51	-16.05	118.97	100.97	18.00	6.608	0			
2,750.00	2,707.32	2,721.03	2,660.42	9.38	9.72	-15.90	120.85	102.45	18.40	6.568	0			
2,800.00	2,753.99	2,770.99	2,706.34	9.57	9.93	-15.76	122.72	103.92	18.80	6.528	0			
2,850.00	2,800.66	2,820.96	2,752.27	9.77	10.13	-15.62	124.60	105.40	19.20	6.490	0			
2,900.00	2,847.33	2,870.92	2,798.20	9.97	10.35	-15.49	126.47	106.87	19.60	6.452	0			
2,950.00	2,894.00	2,920.89	2,844.12	10.17	10.56	-15.36	128.35	108.34	20.01	6.415	0			
3,000.00	2,940.67	2,970.85	2,890.05	10.37	10.77	-15.23	130.23	109.81	20.41	6.380	0			
3,050.00	2,987.34	3,020.81	2,935.98	10.57	10.98	-15.11	132.10	111.28	20.82	6.345	0			
3,100.00	3,034.01	3,070.78	2,981.91	10.77	11.20	-14.99	133.98	112.75	21.23	6.311	0			
3,150.00	3,080.68	3,120.74	3,027.83	10.97	11.41	-14.87	135.86	114.22	21.64	6.277	0			
3,200.00	3,127.35	3,170.71	3,073.76	11.17	11.63	-14.76	137.74	115.68	22.06	6.245	0			
3,250.00	3,174.02	3,220.67	3,119.69	11.38	11.84	-14.65	139.62	117.15	22.47	6.214	0			
3,300.00	3,220.69	3,270.63	3,165.61	11.58	12.06	-14.54	141.50	118.62	22.89	6.183	0			
3,350.00	3,267.36	3,320.60	3,211.54	11.79	12.28	-14.44	143.38	120.08	23.30		0			
3,400.00	3,314.03	3,370.56	3,257.47	11.99	12.49	-14.33	145.26	121.54	23.72	6 124	0			
3,450.00	3,360.70	3,420.53	3,303.39	12.20	12.71	-14.23	147.15	123.01	24.14		0			
3,500.00	3,407.37	3,470.49	3,349.32	12.20	12.71	-14.14	149.03	123.01	24.56		0			
3,550.00	3,454.05	3,520.45	3,395.25	12.41	13.15	-14.04	150.91	125.93	24.98		0			
3,600.00	3,500.72	3,570.42	3,441.18	12.82	13.37	-13.95	152.79	127.39	25.40		0			
3,650.00	3,547.39	3,620.38	3,487.10	13.03	13.59	-13.86	154.68	128.85	25.83		0			
3,700.00	3,594.06	3,670.35	3,533.03	13.24	13.81	-13.77	156.56	130.31	26.25		0			
3,750.00	3,640.73	3,720.31	3,578.96	13.45	14.03	-13.69	158.44	131.77	26.67		0			
3,800.00	3,687.40	3,770.27	3,624.88	13.66	14.25	-13.61	160.33	133.23	27.10		0			
3,850.00	3,734.07	3,820.24	3,670.81	13.87	14.47	-13.52	162.21	134.69	27.53	5.893	0			
3,900.00	3,780.74	3,870.20	3,716.74	14.08	14.70	-13.45	164.10	136.15	27.95	5.871	0			
3,950.00	3,827.41	3,920.17	3,762.67	14.29	14.92	-13.37	165.99	137.61	28.38	5.849	0			
4,000.00	3,874.08	3,970.13	3,808.59	14.51	15.14	-13.29	167.87	139.06	28.81	5.827	0			
4,050.00	3,920.75	4,020.09	3,854.52	14.72	15.36	-13.22	169.76	140.52	29.24	5.806	0			
4,100.00	3,967.42	4,070.06	3,900.45	14.93	15.59	-13.14	171.64	141.98	29.67	5.786	0			
4,150.00	4,014.09	4,120.02	3,946.37	15.14	15.81	-13.07	173.53	143.43	30.10	5.766	0			
4,200.00	4,060.76	4,169.98	3,992.30	15.36	16.03	-13.00	175.42	144.89	30.53		0			
4,250.00	4,107.43	4,219.95	4,038.23	15.57	16.26	-12.94	177.30	146.35	30.96		0			
4,300.00	4,154.10	4,269.91	4,084.15	15.78	16.48	-12.87	179.19	147.80	31.39		0			
4,350.00	4,200.78	4,319.88	4,130.08	16.00	16.71	-12.80	181.08	149.26	31.82		0			
4,400.00	4,247.45	4,369.84	4,176.01	16.21	16.93	-12.74	182.97	150.71	32.25		0			
4,450.00	4,294.12	4,419.80	4,221.94	16.42	17.16	-12.68	184.86	152.17	32.69		0			
4,500.00	4,340.79	4,469.77	4,267.86	16.64	17.38	-12.62	186.74	153.63	33.12		0			
4,550.00	4,387.46	4,519.73	4,313.79	16.85	17.61	-12.56	188.63	155.08	33.55		0			
4,600.00	4,434.13	4,569.70	4,359.72	17.07	17.83	-12.50	190.52	156.53	33.99	000.0	0			
4,650.00		4,619.66	4,405.64	17.28	18.06	-12.44	192.41	157.99		5.590	0			
4,700.00		4,669.62	4,451.57	17.50	18.28	-12.38	194.30	159.44	34.86		0			
4,750.00	4,574.14	4,719.59	4,497.50	17.71	18.51	-12.33	196.19	160.90	35.29		0			
4,800.00	4,620.81	4,769.55	4,543.43	17.93	18.74	-12.27	198.08	162.35	35.73		0			
4,850.00	4,667.48	4,819.52	4,589.35	18.15	18.96	-12.22	199.97	163.81	36.16	5.530	0			
4,900.00	4,714.15	4,869.48	4,635.28	18.36	19.19	-12.17	201.86	165.26	36.60	5.516	0			
4,950.00	4,760.82	4,919.44	4,681.21	18.58	19.42	-12.11	203.75	166.71	37.03		0			
5,000.00	4,807.49	4,969.41	4,727.13	18.79	19.64	-12.06	205.64	168.17	37.47		0			
5,050.00	4,854.16	5,019.37	4,773.06	19.01	19.87	-12.01	207.53	169.62	37.91		0			
5,100.00	4,900.83	5,069.34	4,818.99	19.23	20.10	-11.97	209.42	171.07	38.34		0			
5,150.00	1 017 50	5 110 20	1 864 04	10 45	20.22	.11.02	211 24	170 50	20 70	5 119	0			
0,100.00	4,947.50	5,119.30	4,864.91	19.45	20.32	-11.92	211.31	172.53	38.78	0.449	U			

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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

urvey Prog	ram: 0-X0	OMR2_OWSG	MWD+IFR1+	-MS									Offset Well Error:	0.00 u
Refer		Offs		Semi Major	Axis		Dis	tance					Onset Wein Error.	0.000
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
5,200.00	4,994.18	5,169.26	4,910.84	19.66	20.55	-11.87	213.20	173.98		5.436	0			
5,250.00	5,040.85	5,219.23	4,956.77	19.88	20.78	-11.82	215.09	175.43	39.66	5.424	0			
5,300.00	5,087.52	5,269.19	5,002.70	20.10	21.01	-11.78	216.98	176.89	40.10	5.412	0			
5,350.00	5,134.19	5,319.16	5,048.62	20.31	21.23	-11.73	218.87	178.34	40.53	5.400	0			
5,400.00	5,180.86	5,369.12	5,094.55	20.53	21.46	-11.69	220.77	179.79	40.97	5.388	0			
5,450.00	5,227.53	5,419.08	5,140.48	20.75	21.69	-11.65	222.66	181.25	41.41	5.377	0			
5,500.00	5,274.20	5,469.05	5,186.40	20.97	21.92	-11.60	224.55	182.70	41.85	5.366	0			
5,550.00	5,320.87	5,519.01	5,232.33	21.19	22.15	-11.56	226.44	184.15	42.29	5.355	0			
5,600.00	5,367.54	5,568.97	5,278.26	21.40	22.37	-11.52	228.33	185.60	42.73	5.344	0			
5,650.00	5,414.21	5,618.94	5,324.18	21.62	22.60	-11.48	230.22	187.06	43.17	5.333	0			
5,700.00	5,460.88	5,668.90	5,370.11	21.84	22.83	-11.44	232.12	188.51	43.61	5.323	0			
5,750.00	5,507.55	5,718.87	5,416.04	22.06	23.06	-11.40	234.01	189.96	44.05	5.313	0			
5,800.00	5,554.22	5,768.83	5,461.97	22.28	23.29	-11.36	235.90	191.41	44.49	5.303	0			
5,850.00	5,600.89	5,818.79	5,507.89	22.49	23.52	-11.33	237.79	192.86	44.93	5.293	0			
5,900.00	5,647.56	5,868.76	5,553.82	22.71	23.74	-11.29	239.69	194.32	45.37	5.283	0			
5,950.00	5,694.23	5,918.72	5,599.75	22.93	23.97	-11.25	241.58	195.77	45.81	5.274	0			
6,000.00	5,740.91	5,968.69	5,645.67	23.15	24.20	-11.22	243.47	197.22	46.25	5.264	0			
6,050.00	5,787.58	6,018.65	5,691.60	23.37	24.43	-11.18	245.36	198.67	46.69	5.255	0			
6,100.00	5,834.25	6,068.61	5,737.53	23.59	24.66	-11.15	247.26	200.12	47.13	5.246	0			
6,150.00	5,880.92	6,118.58	5,783.46	23.81	24.89	-11.11	249.15	201.58	47.57	5.237	0			
6,200.00	5,927.59	6,168.54	5,829.38	24.03	25.12	-11.08	251.04	203.03	48.01	5.229	0			
6,250.00	5,974.26	6,218.51	5,875.31	24.25	25.35	-11.05	252.94	204.48	48.45	5.220	0			
6,300.00	6,021.08	6,268.45	5,921.22	24.46	25.58	-11.00	255.24	206.31		5.216	0			
6,350.00	6,068.20	6,318.35	5,967.09	24.68	25.81	-10.93	258.40	209.00	49.40		0			
6,400.00	6,115.60	6,368.50	6,013.19	24.89	26.04	-10.82	262.42	212.57	49.85		0			
6,450.00	6,163.27	6,423.29	6,063.78	25.10	26.28	-10.69	266.76	216.46		5.304	0			
6,500.00	6,211.20	6,478.18	6,114.85	25.30	26.53	-10.57	271.02	220.29	50.73	5.342	0			
6,550.00	6,259.37	6,533.16	6,166.40	25.51	26.77	-10.45	275.20	224.05		5.380	0			
6,600.00	6,307.77	6,588.25	6,218.39	25.71	27.01	-10.34	279.29	227.74		5.418	0			
6,650.00	6,356.38	6,643.43	6,270.82	25.90	27.24	-10.23	283.29	231.36		5.456	0			
6,700.00	6,405.18	6,698.70	6,323.66	26.10	27.47	-10.12	287.20	234.91		5.493	0			
6,750.00	6,454.17	6,754.06	6,376.89	26.28	27.69	-10.02	291.01	238.40	52.62	5.531	0			
6,800.00	6,503.33	6,809.52	6,430.48	26.47	27.92	-9.92	294.74	241.80	52.94	5.568	0			
6,850.00	6,552.63	6,865.06	6,484.43	26.65	28.13	-9.83	298.37	245.13	53.23	5.605	0			
6,900.00	6,602.08	6,920.68	6,538.71	26.84	28.34	-9.74	301.90	248.38	53.52	5.641	0			
6,950.00	6,651.64	6,976.40	6,593.30	27.01	28.55	-9.65	305.33	251.56		5.678	0			
7,000.00	6.701.32	7,032.19	6,648.18	27.19	28.76	-9.56	308.66	254.65	54.01	5.715	0			
7,050.00	6,751.08	7,088.06	6,703.32	27.13	28.96	-9.48	311.90	257.67		5.752	0			
7,100.00	6,800.93	7,088.00	6,758.70	27.53	28.90	-9.40	315.03	260.60		5.788	0			
7,150.00	6,850.83	7,144.01	6,814.30	27.69	29.15	-9.40	318.05	263.45		5.825	0			
7,130.00	6,900.78	7,256.14	6,870.10	27.86	29.53	-9.32	320.97	266.21		5.862	0			
7,250.00	6,950.76	7,312.31	6,926.07	28.01	29.72	-9.18	323.79	268.90	54.89	5.899	0			
7,300.00	7,000.76	7,368.55	6,982.20	28.17	29.90	-9.11	326.49	271.49		5.936	0			
7,350.00	7,050.76	7,424.87	7,038.46	28.32	30.07	89.43	328.69	273.38		5.942	0			
7,400.00	7,100.76	7,481.27	7,094.84	28.47	30.25	89.46	329.93	273.30		5.930	0			
7,450.00	7,150.76	7,536.19	7,149.76	28.62	30.41	89.47	330.21	274.26	55.95		0			
7,500.00	7,200.76	7,586.19	7,199.76	28.77	30.56	89.47	330.21	273.96	56.25		0			
											0			
7,550.00	7,250.76	7,636.19	7,249.76	28.93	30.70	89.47	330.21	273.67		5.840				
7,600.00	7,300.76	7,686.19	7,299.76	29.08	30.85	89.47	330.21	273.37		5.810	0			
7,650.00	7,350.76	7,736.19	7,349.76	29.23	31.00 31.14	89.47 89.47	330.21 330.21	273.07		5.779 5.750	0			
7,700.00	7,400.76	7,786.19	7,399.76	29.39	31.14	89.47	330.21	272.78	57.43	5.750	U			
7,750.00	7,450.76	7,836.19	7,449.76	29.54	31.29	89.47	330.21	272.48	57.73	5 700	0			

10/9/2022 1:09:31PM

Released to Imaging: 12/29/2022 11:35:01 AM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

urvey Progr	sign			ED - O27F	510H - O	27F 510H ·	PLAN 3						Offset Site Error:	0.00 us
rvey Progr Refere		OMR2_OWSG Offse		•MS Semi Major	Axis		Dis	stance					Offset Well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
7,800.00	7,500.76	7,886.19	7,499.76	29.69	31.44	89.47	330.21	272.18	58.03	5.691	0			
7,850.00	7,550.76	7,936.19	7,549.76	29.85	31.59	89.47	330.21	271.88	58.33	5.661	0			
7,900.00	7,600.76	7,986.19	7,599.76	30.00	31.73	89.47	330.21	271.58	58.63	5.632	0			
7,950.00	7,650.76	8,036.19	7,649.76	30.16	31.88	89.47	330.21	271.28	58.93	5.604	0			
8,000.00	7,700.76	8,086.19	7,699.76	30.31	32.03	89.47	330.21	270.98	59.23	5.575	0			
8,050.00	7,750.76	8,136.19	7,749.76	30.47	32.18	89.47	330.21	270.68	59.53	5.547	0			
8,100.00	7,800.76	8,186.19	7,799.76	30.62	32.33	89.47	330.21	270.38	59.83	5.519	0			
8,150.00	7,850.76	8,236.19	7,849.76	30.78	32.48	89.47	330.21	270.08	60.14	5.491	0			
8,200.00	7,900.76	8,286.19	7,899.76	30.93	32.63	89.47	330.21	269.77	60.44	5.464	0			
8,250.00	7,950.76	8,336.19	7,949.76	31.09	32.78	89.47	330.21	269.47	60.74	5.436	0			
8,300.00	8,000.76	8,386.19	7,999.76	31.25	32.93	89.47	330.21	269.16	61.05	5.409	0			
8,350.00	8,050.76	8,436.19	8,049.76	31.40	33.08	89.47	330.21	268.86	61.35	5.382	0			
8,400.00	8,100.76	8,486.19	8,099.76	31.56	33.24	89.47	330.21	268.55	61.66		0			
8,450.00	8,150.76	8,536.19	8,149.76	31.72	33.39	89.47	330.21	268.25	61.96		0			
8,500.00	8,200.76	8,586.19	8,199.76	31.88	33.54	89.47	330.21	267.94	62.27		0			
8,550.00	8,250.76	8,636.19	8,249.76	32.03	33.69	89.47	330.21	267.63	62.58		0			
	0 000 70	0 000 40	0 000 70	00.40			000.04	007.00		5.054	0			
8,600.00	8,300.76	8,686.19	8,299.76	32.19	33.84	89.47	330.21	267.32	62.89		0			
8,650.00	8,350.76	8,736.19	8,349.76	32.35	34.00	89.47	330.21	267.01	63.20		0			
8,700.00	8,400.76	8,786.19	8,399.76	32.51	34.15	89.47	330.21	266.71	63.50		0			
8,750.00	8,450.76	8,836.19	8,449.76	32.67	34.30	89.47	330.21	266.40	63.81		0			
8,800.00	8,500.76	8,886.19	8,499.76	32.83	34.46	89.47	330.21	266.09	64.12	5.150	0			
8,850.00	8,550.76	8,936.19	8,549.76	32.98	34.61	89.47	330.21	265.78	64.43	5.125	0			
8,900.00	8,600.76	8,986.19	8,599.76	33.14	34.76	89.47	330.21	265.46	64.75	5.100	0			
8,950.00	8,650.76	9,036.19	8,649.76	33.30	34.92	89.47	330.21	265.15	65.06	5.076	0			
9,000.00	8,700.76	9,086.19	8,699.76	33.46	35.07	89.47	330.21	264.84	65.37	5.051	0			
9,050.00	8,750.76	9,136.19	8,749.76	33.62	35.23	89.47	330.21	264.53	65.68	5.027	0			
9,100.00	8,800.76	9,186.19	8,799.76	33.78	35.38	89.47	330.21	264.22	66.00	5 004	0			
9,150.00	8,850.76	9,236.19	8,849.76	33.94	35.50	89.47	330.21	263.90	66.31		0			
9,200.00	8,900.76	9,286.19	8,899.76	34.10	35.69	89.47	330.21	263.59	66.62		0			
9,250.00	8,950.76	9,336.19	8,949.76	34.26	35.85	89.47	330.21	263.27	66.94		0			
9,300.00	9,000.76	9,386.19	8,999.76	34.43	36.01	89.47	330.21	262.96	67.25		0			
9,350.00	9,050.76	9,436.19	9,049.76	34.59	36.16	89.47	330.21	262.64	67.57		0			
9,400.00	9,100.76	9,486.19	9,099.76	34.75	36.32	89.47	330.21	262.33	67.88		0			
9,450.00	9,150.76	9,536.19	9,149.76	34.91	36.47	89.47	330.21	262.01	68.20		0			
9,500.00	9,200.76	9,586.19	9,199.76	35.07	36.63	89.47	330.21	261.70	68.52		0			
9,550.00	9,250.76	9,636.19	9,249.76	35.23	36.79	89.47	330.21	261.38	68.83	4.797	0			
9,600.00	9,300.76	9,686.19	9,299.76	35.39	36.95	89.47	330.21	261.06	69.15	4.775	0			
9,650.00	9,350.76	9,736.19	9,349.76	35.56	37.10	89.47	330.21	260.74	69.47	4.753	0			
9,700.00	9,400.76	9,786.19	9,399.76	35.72	37.26	89.47	330.21	260.43	69.79	4.732	0			
9,750.00	9,450.76	9,836.19	9,449.76	35.88	37.42	89.47	330.21	260.11	70.10	4.710	0			
9,800.00	9,500.76	9,886.19	9,499.76	36.04	37.58	89.47	330.21	259.79	70.42	4.689	0			
9,850.00	9,550.76	9,936.19	9,549.76	36.21	37.73	89.47	330.21	259.47	70.74	4 668	0			
9,850.00 9,900.00	9,550.76 9,600.76	9,936.19 9,986.19	9,549.76 9,599.76	36.21	37.73	89.47 89.47	330.21	259.47 259.15	70.74		0 0			
9,900.00 9,950.00	9,600.76 9,650.76	9,986.19	9,599.76 9,649.76	36.53	37.89	89.47 89.47	330.21	259.15	71.06		0			
9,950.00	9,650.76 9,700.76	10,036.19	9,649.76 9,699.76	36.53	38.05 38.21	89.47 89.47	330.21	258.83 258.51	71.38		0			
10,050.00	9,750.76	10,086.19	9,749.76	36.86	38.37	89.47	330.21	258.19	72.02		0			
											5			
10,100.00	9,800.76	10,186.19	9,799.76	37.02	38.53	89.47	330.21	257.87	72.34		0			
10,150.00	9,850.76	10,236.19	9,849.76	37.19	38.69	89.47	330.21	257.55	72.67		0			
10,200.00	9,900.76	10,286.19	9,899.76	37.35	38.85	89.47	330.21	257.22	72.99		0			
10,250.00	9,950.76	10,336.19	9,949.76	37.51	39.01	89.47	330.21	256.90	73.31		0			
10,300.00	10,000.76	10,386.19	9,999.76	37.68	39.17	89.47	330.21	256.58	73.63	4.485	0			
10,350.00	10,050.76	10,436.19	10,049.76	37.84	39.33	89.47	330.21	256.26	73.95	4.465	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

10,450.0010,110,500.0010,210,550.0010,210,600.0010,3	Depth (usft) 00.76 10,486.19 50.76 10,536.19 00.76 10,586.19		MS Semi Major Reference (usft) 38.01	Axis Offset (usft)	Highside Toolface (°)	Dis Between Centres	ance Between	Minimum	Separation			Offset Well Error:	0.00 usft
Measured Depth (usft) Verti Dep (usft) 10,400.00 10,1 10,450.00 10,1 10,550.00 10,2 10,600.00 10,3	Measured Depth (usft) 00.76 10,486.19 50.76 10,536.19 00.76 10,586.19	Vertical Depth (usft) 10,099.76	Reference (usft)	Offset	Toolface	Between	Between	Minimum	Cononéion				
Depth (usft) Dep (usft) 10,400.00 10,1 10,450.00 10,1 10,500.00 10,2 10,550.00 10,2 10,600.00 10,3	Depth (usft) 00.76 10,486.19 50.76 10,536.19 00.76 10,586.19	Depth (usft) 10,099.76	(usft)		Toolface			Minimum					
10,450.0010,110,500.0010,210,550.0010,210,600.0010,3	50.7610,536.1900.7610,586.19		38.01		()	(usft)	Ellipses (usft)	Separation (usft)	Factor	Risked Separation Factor	Probability of Collision	Warning	
10,500.00 10,2 10,550.00 10,2 10,600.00 10,3	00.76 10,586.19	10,149.76		39.49	89.47	330.21	255.93	74.28	4.446	0			
10,550.00 10,2 10,600.00 10,3			38.17	39.65	89.47	330.21	255.61	74.60	4.426	0			
10,600.00 10,3	F0 76 10 626 10	10,199.76	38.34	39.81	89.47	330.21	255.29	74.92	4.407	0			
	10,030.19	10,249.76	38.50	39.97	89.47	330.21	254.96	75.25	4.388	0			
10.650.00 10.3	00.76 10,686.19	10,299.76	38.66	40.13	89.47	330.21	254.64	75.57	4.369	0			
	50.76 10,736.19	10,349.76	38.83	40.29	89.47	330.21	254.31	75.90	4.351	0			
10,700.00 10,4	00.76 10,786.19	10,399.76	38.99	40.45	89.47	330.21	253.99	76.22	4.332	0			
10,750.00 10,4	50.76 10,836.19	10,449.76	39.16	40.61	89.47	330.21	253.66	76.55	4.314	0			
10,800.00 10,5	00.76 10,886.19	10,499.76	39.33	40.77	89.47	330.21	253.34	76.87	4.296	0			
10,850.00 10,5	50.76 10,936.19	10,549.76	39.49	40.93	89.47	330.21	253.01	77.20	4.277	0			
10,900.00 10,6	00.76 10,986.19	10,599.76	39.66	41.10	89.47	330.21	252.68	77.53	4.259	0			
10,950.00 10,6	50.76 11,036.19	10,649.76	39.82	41.26	89.47	330.21	252.36	77.85	4.242	0			
11,000.00 10,7	00.76 11,086.19	10,699.76	39.99	41.42	89.47	330.21	252.03	78.18	4.224	0			
11,050.00 10,7	50.76 11,136.19	10,749.76	40.15	41.58	89.47	330.21	251.70	78.51	4.206	0			
11,100.00 10,8	00.76 11,186.19	10,799.76	40.32	41.74	89.47	330.21	251.38	78.83	4.189	0			
11,150.00 10,8	50.76 11,236.19	10,849.76	40.49	41.91	89.47	330.21	251.05	79.16	4.171	0			
11,200.00 10,9	00.76 11,286.19	10,899.76	40.65	42.07	89.47	330.21	250.72	79.49	4.154	0			
11,250.00 10,9	50.76 11,336.19	10,949.76	40.82	42.23	89.47	330.21	250.39	79.82	4.137	0			
11,300.00 11,0	00.76 11,386.19	10,999.76	40.99	42.39	89.47	330.21	250.07	80.14	4.120	0			
11,350.00 11,0	50.76 11,436.19	11,049.76	41.15	42.56	89.47	330.21	249.74	80.47	4.103	0			
11,400.00 11,1	00.76 11,486.19	11,099.76	41.32	42.72	89.47	330.21	249.41	80.80	4.087	0			
11,450.00 11,1	50.76 11,536.19	11,149.76	41.49	42.88	89.47	330.21	249.08	81.13	4.070	0			
11,500.00 11,2	00.76 11,586.19	11,199.76	41.65	43.05	89.47	330.21	248.75	81.46	4.054	0			
11,550.00 11,2	50.76 11,636.19	11,249.76	41.82	43.21	89.47	330.21	248.42	81.79	4.037	0			
11,600.00 11,3	00.76 11,686.19	11,299.76	41.99	43.37	89.47	330.21	248.09	82.12	4.021	0			
11,650.00 11,3	50.76 11,736.19	11,349.76	42.15	43.54	89.47	330.21	247.76	82.45	4.005	0			
11,700.00 11,4	00.76 11,786.19	11,399.76	42.32	43.70	89.47	330.21	247.43	82.78	3.989	0			
11,750.00 11,4	50.76 11,836.19	11,449.76	42.49	43.87	89.47	330.21	247.10	83.11	3.973	0			
11,800.00 11,5	00.76 11,886.19	11,499.76	42.66	44.03	89.47	330.21	246.77	83.44	3.957	0			
11,850.00 11,5	50.76 11,936.19	11,549.76	42.82	44.19	89.47	330.21	246.44	83.77	3.942	0			
11,878.06 11,5	78.82 11,964.25	11,577.82	42.92	44.29	89.47	330.21	246.25	83.96	3.933	0			
11,900.00 11,6	00.76 11,986.16	11,599.73	42.99	44.36	89.45	330.21	246.11	84.10	3.926	0			
11,950.00 11,6	50.76 12,035.83	11,649.27	43.16	44.52	88.88	330.24	245.79	84.45	3.911	0			
12,000.00 11,7	00.76 12,084.57	11,697.44	43.33	44.68	87.61	330.43	245.62	84.81	3.896	0	:	SF	

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

Released to Imaging: 12/29/2022 11:35:01 AM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

fset De vey Prog Refer	ram: 214	XOMR2_OWS		1+MS Semi Major	Axis		Dis	tance					Offset Well Error:	0.00 (
asured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	Factor	Factor	of conision		
0.00	0.00	0.00	0.00	0.00	0.00	-0.29	60.00				0			
50.00	50.00	49.91	49.91	0.04	0.08	-130.24	60.08	59.96	0.11	532.080	0		ES	
100.00	100.00	99.81	99.81	0.13	0.15	-130.35	60.31	60.03	0.28	215.629	0			
150.00	150.00	149.71	149.71	0.22	0.23	-130.54	60.69	60.24	0.45	135.911	0			
200.00	200.00	199.61	199.61	0.36	0.31	-121.75	61.21	60.54	0.67	92.005	0			
250.00	250.00	249.69	249.69	0.54	0.46	-128.79	61.75	60.76	0.99	62.213	0			
300.00	299.99	299.85	299.85	0.71	0.63	-145.43	62.24	60.89	1.35	46.146	0			
350.00	349.99	349.75	349.74	0.89	0.81	-172.81	62.73	61.02	1.70	36.843	0			
400.00	399.99	399.55	399.55	1.07	0.99	149.04	63.32	61.27	2.06	30.810	0			
450.00	449.99	449.62	449.61	1.24	1.17	133.64	63.98	61.57	2.41	26.573	0			
500.00	499.99	499.74	499.73	1.42	1.34	126.03	64.57	61.81	2.76	23.395	0			
	5 40 00	5 40 70	5 40 00	4 50	4 50	101.10	05.44		0.44	~ ~ ~ ~ ~				
550.00	549.98	549.70	549.69	1.59	1.52	121.10	65.14	62.03		20.933	0			
600.00	599.98	599.68	599.66	1.77	1.70	117.48	65.75	62.29		18.983	0			
650.00	649.97	649.95	649.90	1.94	1.88	115.97	66.34	62.52		17.375	0			
700.00	699.95	700.23	700.16	2.12	2.06	115.02	66.83	62.66		16.018	0 0			
750.00	749.93	750.59	750.47	2.30	2.23	114.84	67.19	62.67	4.53	14.843	U			
800.00	799.90	800.86	800.69	2.47	2.41	113.80	67.41	62.53	4.88	13.808	0			
850.00	849.85	850.96	850.73	2.65	2.59	111.61	67.58	62.34	5.24	12.904	0			
900.00	899.80	901.02	900.74	2.83	2.77	110.94	67.74	62.15	5.59	12.114	0			
950.00	949.73	951.03	950.70	3.01	2.94	111.90	67.98	62.03	5.95	11.432	0			
,000.00	999.65	1,000.96	1,000.61	3.19	3.12	113.95	68.37	62.07	6.30	10.852	0			
,050.00	1,049.55	1,050.83	1,050.47	3.36	3.30	116.56	69.02	62.37	6 65	10.373	0		SF	
,100.00	1,099.44	1,062.00	1,061.64	3.54	3.34	117.25	79.91	73.03		11.628	0		01	
1,150.00	1,149.35	1,062.00	1,061.64	3.72	3.34	110.34	113.38	106.33		16.079	0			
1,200.00	1,199.28	1,062.00	1,061.64	3.90	3.34	93.73	155.61	148.38		21.524	0			
,250.00	1,249.23	1,062.00	1,061.64	4.08	3.34	78.30	201.19	193.78		27.172	0			
,200.00		1,002.00	1,001.01					100.10						
1,300.00	1,299.20	1,062.00	1,061.64	4.25	3.34	53.37	248.24	240.66		32.759	0			
1,350.00	1,349.18	1,062.00	1,061.64	4.42	3.34	34.05	296.24	288.49		38.237	0			
1,400.00	1,399.17	1,062.00	1,061.64	4.59	3.34	-19.91	344.75	336.83		43.546	0			
1,450.00	1,449.17	1,062.00	1,061.64	4.76	3.34	-49.89	393.75	385.66		48.709	0			
1,500.00	1,499.14	1,062.00	1,061.64	4.92	3.34	-45.92	442.90	434.65	8.25	53.695	0			
1,550.00	1,549.09	1,062.00	1,061.64	5.09	3.34	-42.43	492.12	483.71	8.41	58.500	0			
1,600.00	1,599.00	1,062.00	1,061.64	5.26	3.34	-46.05	541.43	532.86		63.123	0			
1,650.00	1,648.85	1,062.00	1,061.64	5.43	3.34	-46.04	590.83	582.09	8.74	67.587	0			
1,700.00	1,698.64	1,062.00	1,061.64	5.60	3.34	-44.03	640.28	631.38	8.90	71.910	0			
1,750.00	1,748.34	1,062.00	1,061.64	5.77	3.34	-41.00	689.76	680.70		76.092	0			
000.00	4 707 0-			=			700.05	700 65	0.00	00.454	0			
1,800.00	1,797.95	1,062.00	1,061.64	5.94	3.34	-37.52	739.25	730.03		80.154	0			
1,850.00	1,847.45	1,062.00	1,061.64	6.11	3.34	-33.98	788.73	779.35		84.091	0			
1,900.00	1,896.82 1,946.05	1,062.00	1,061.64	6.29	3.34	-30.57	838.20	828.67		87.925	0			
1,950.00	1,946.05	1,062.00	1,061.64	6.46	3.34 3.34	-27.41	887.63 937.03	877.95		91.642 95.269	0 0			
2,000.00	1,995.12	1,062.00	1,061.64	6.63	3.34	-24.55	937.03	927.20	9.84	90.209	U			
2,050.00	2,044.02	1,062.00	1,061.64	6.80	3.34	-22.00	986.38	976.39	9.99	98.757	0			
2,100.00	2,092.73	1,062.00	1,061.64	6.98	3.34	-19.74	1,035.68	1,025.54	10.13	102.221	0			
2,150.00	2,141.24	1,062.00	1,061.64	7.15	3.34	-17.75	1,084.91	1,074.64	10.28	105.582	0			
2,200.00	2,189.53	1,062.00	1,061.64	7.33	3.34	-16.00	1,134.08	1,123.66	10.42	108.808	0			
,250.00	2,237.60	1,062.00	1,061.64	7.51	3.34	-14.45	1,183.18	1,172.61	10.57	111.974	0			
2,300.00	2,285.41	1,062.00	1,061.64	7.69	3.34	-13.09	1,232.20	1,221.49	10 71	115.056	0			
2,300.00	2,285.41 2,332.97	1,062.00	1,061.64	7.69	3.34 3.34	-13.09 -11.88	1,232.20	1,221.49		115.056	0			
2,350.00	2,332.97			8.05	3.34	-11.88		1,270.28			0			
2,400.00	2,380.25 2,427.24	1,062.00	1,061.64	8.05		-10.82 -9.87	1,329.98 1,378.73	1,318.98		120.986	0			
2,450.00	2,427.24 2,473.96	1,062.00 1,062.00	1,061.64 1,061.64	8.24 8.42	3.34 3.34	-9.87 -9.39	1,378.73	1,367.60		123.836 126.393	0			
.,000.00	2,713.30	1,002.00	1,001.04	0.42	0.04	-9.09	1,727.41	1,+10.12	11.29	120.000	5			
,550.00	2,520.63	1,062.00	1,061.64	8.61	3.34	-9.39	1,476.14	1,464.66	11.48	128.581	0			

10/9/2022 1:09:31PM

Released to Imaging: 12/29/2022 11:35:01 AM



GeoGuidance





Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

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

.



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

urvey Prog Refer		OMR2_OWSG	MWD+IFR1+	ED - O27F MS Semi Major				tance					Offset Well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
0.00	0.00	0.00	0.00	0.00	0.00	-0.29	60.00				0			
50.00	50.00	50.00	50.00	0.04	0.06	-130.25	60.04	59.94	0.10	608.747	0			
100.00	100.00	100.00	100.00	0.13	0.13	-130.37	60.15	59.90		239.495	0			
150.00	150.00	150.00	150.00	0.22	0.30	-130.58	60.34	59.82		116.036	0			
200.00	200.00	200.00	200.00	0.36	0.48	-121.83	60.58	59.74		72.057	0			
250.00	250.00	250.00	250.00	0.54	0.66	-128.89	60.82	59.62	1.20	50.732	0			
300.00	299.99	299.99	299.99	0.71	0.84	-145.46	61.13	59.57	1.56	39.262	0			
350.00	349.99	349.99	349.99	0.89	1.02	-172.69	61.48	59.57	1.91	32.143	0			
400.00	399.99	399.99	399.99	1.07	1.20	149.33	61.81	59.54	2.27	27.256	0			
450.00	449.99	449.99	449.99	1.24	1.38	134.23	62.13	59.50	2.62	23.701	0			
500.00	499.99	499.99	499.99	1.42	1.56	127.12	62.47	59.50	2.97	21.004	0		ES	
550.00	549.98	549.98	549.98	1.59	1.74	122.89	62.85	59.52	3 33	18.883	0			
600.00	599.98	599.98	599.98	1.77	1.92	120.13	63.25	59.57		17.176	0			
650.00	649.97	649.97	649.97	1.94	2.10	119.74	63.74	59.70		15.786	0			
700.00	699.95	699.95	699.95	2.12	2.28	120.21	64.37	59.97		14.654	0			
750.00	749.93	749.93	749.93	2.30	2.46	121.71	65.15	60.41		13.721	0			
800.00	799.90	799.90	799.90	2.47	2.63	122.56	66.11	61.00		12.951	0			
850.00	849.85	849.85	849.85	2.65	2.81	122.26	67.20	61.74		12.307	0			
900.00	899.80	899.80	899.80	2.83	2.99	123.36	68.46	62.64		11.769	0			
950.00	949.73	949.73	949.73	3.01	3.17	125.56	69.93	63.76		11.328	0			
1,000.00	999.65	999.65	999.65	3.19	3.35	128.28	71.64	65.11	6.53	10.972	0			
1,050.00	1,049.55	1,049.55	1,049.55	3.36	3.53	131.21	73.65	66.76	6.89	10.695	0			
1,100.00	1,099.44	1,099.44	1,099.44	3.54	3.71	133.31	75.85	68.61	7.24	10.472	0			
1,150.00	1,149.35	1,149.35	1,149.35	3.72	3.89	127.87	77.90	70.30	7.60	10.249	0			
1,200.00	1,199.28	1,199.28	1,199.28	3.90	4.07	112.50	79.24	71.28	7.96	9.956	0			
1,250.00	1,249.23	1,248.92	1,248.92	4.08	4.24	97.28	79.92	71.62	8.31	9.620	0			
1,300.00	1,299.20	1,298.47	1,298.45	4.25	4.41	72.53	80.04	71.39	8 65	9.249	0			
1,301.95	1,301.15	1,300.41	1,300.39	4.26	4.42	72.33	80.04	71.33		9.234	0			
1,350.00	1,349.18	1,347.97	1,347.91	4.42	4.58	52.32	80.15	71.16		8.913	0			
1,387.40	1,386.58	1,384.96	1,384.83	4.55	4.71	12.88	80.40	71.15		8.695	0			
1,400.00	1,399.17	1,397.41	1,397.26	4.59	4.75	-3.10	80.14	70.81		8.588	0			
1,450.00	1,449.17	1,446.79	1,446.48	4.76	4.92	-33.83	80.96	71.29		8.373	0			
1,500.00	1,499.14	1,496.09	1,495.56	4.92	5.09	-31.34	81.68	71.68	10.00		0			
1,550.00	1,549.09	1,545.31	1,544.47	5.09	5.26	-29.16	82.19	71.85	10.34		0			
1,600.00	1,599.00	1,594.46	1,593.21	5.26	5.43	-35.93	82.76	72.09	10.67		0			
1,650.00	1,648.85	1,643.55	1,641.78	5.43	5.61	-39.43	83.62	72.61	11.01	7.597	0			
1,700.00	1,698.64	1,692.58	1,690.15	5.60	5.78	-41.09	84.74	73.40	11.34	7.472	0			
1,750.00	1,748.34	1,741.55	1,738.33	5.77	5.95	-41.71	86.10	74.43	11.67	7.375	0			
1,800.00	1,797.95	1,790.46	1,786.29	5.94	6.13	-41.70	87.69	75.69	12.01	7.303	0			
1,850.00	1,847.45	1,839.31	1,834.02	6.11	6.30	-41.32	89.50	77.16	12.34	7.253	0			
1,900.00	1,896.82	1,888.11	1,881.51	6.29	6.48	-40.72	91.49	78.82	12.67	7.221	0			
1,950.00	1,946.05	1,936.84	1,928.75	6.46	6.65	-40.00	93.67	80.67	13.00	7.205	0			
2,000.00	1,946.05	1,936.64	1,926.75	6.63	6.83	-40.00	95.07 96.00	82.67	13.00		0			
2,050.00	2,044.02	2,034.14	2,022.40	6.80	7.01	-39.23	98.48	84.82	13.66		0			
2,100.00	2,092.73	2,082.70	2,022.40	6.98	7.19	-37.68	101.09	87.10	13.98		0			
2,150.00	2,141.24	2,131.21	2,114.90	7.15	7.37	-36.95	103.81	89.50	14.31		0			
2,200.00	2,189.53	2,179.65	2,160.67	7.33	7.56	-36.26	106.64	92.01	14.64		0			
2,250.00	2,237.60	2,228.04	2,206.12	7.51	7.74	-35.63	109.57	94.60	14.96		0			
2,300.00	2,285.41	2,276.38	2,251.23	7.69	7.93	-35.05	112.57	97.29	15.29		0			
2,350.00	2,332.97	2,324.65	2,295.99	7.87	8.11	-34.53	115.66	100.04	15.61		0			
2,400.00	2,380.25	2,372.87	2,340.38	8.05	8.30	-34.07	118.80	102.86	15.94	7.453	0			
2,450.00	2,427.24	2,422.37	2,385.72	8.24	8.50	-33.71	121.80	105.53	16.27	7.485	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	sign	OUTRIE	DER 27 FI	ED - 027F	511H - O	27F 511H -	PLAN 5						Offset Site Error:	0.00 us
urvey Prog		OMR2_OWSG											Offset Well Error:	0.00 us
Refer		Offse		Semi Major		11 also tata		tance		0	Distant	Deck als life.		
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
2,500.00	2,473.96	2,472.31	2,431.45	8.42	8.70	-33.48	124.22	107.59	16.63		0			
2,550.00	2,520.63	2,522.25	2,477.19	8.61	8.90	-33.18	126.54	109.53	17.02		0			
2,600.00	2,567.30	2,572.19	2,522.93	8.80	9.11	-32.89	128.86	111.46	17.40		0			
2,650.00	2,613.97	2,622.14	2,568.66	8.99	9.31	-32.60	131.19	113.39	17.80		0			
2,700.00	2,660.64	2,672.08	2,614.40	9.18	9.52	-32.33	133.52	115.33 117.26	18.19 18.59		0 0			
2,750.00	2,707.32	2,722.02	2,660.14	9.38	9.73	-32.07	135.85	117.20	10.09	7.300	0			
2,800.00	2,753.99	2,771.96	2,705.88	9.57	9.94	-31.81	138.18	119.19	18.99	7.278	0			
2,850.00	2,800.66	2,821.90	2,751.61	9.77	10.15	-31.56	140.52	121.13	19.39	7.247	0			
2,900.00	2,847.33	2,871.84	2,797.35	9.97	10.36	-31.33	142.86	123.06	19.79	7.217	0			
2,950.00	2,894.00	2,921.79	2,843.09	10.17	10.57	-31.10	145.20	125.00	20.20	7.188	0			
3,000.00	2,940.67	2,971.73	2,888.82	10.37	10.79	-30.87	147.54	126.93	20.61	7.159	0			
3,050.00	2,987.34	3,021.67	2,934.56	10.57	11.00	-30.66	149.89	128.87	21.02	7 131	0			
3,100.00	3,034.01	3,071.61	2,980.30	10.77	11.21	-30.45	152.24	130.80	21.43		0			
3,150.00	3,080.68	3,121.55	3,026.03	10.97	11.43	-30.24	154.58	132.74	21.84		0			
3,200.00	3,127.35	3,171.50	3,071.77	11.17	11.65	-30.05	156.94	134.68	22.26		0			
3,250.00	3,174.02	3,221.44	3,117.51	11.38	11.86	-29.86	159.29	136.61	22.68		0			
3,300.00	3,220.69	3,271.38	3,163.24	11.58	12.08	-29.67	161.64	138.55	23.09		0			
3,350.00	3,267.36	3,321.32	3,208.98	11.79	12.30	-29.49	164.00	140.49	23.51		0			
3,400.00	3,314.03	3,371.26	3,254.72	11.99	12.52	-29.31	166.36	142.43	23.93		0			
3,450.00	3,360.70	3,421.20	3,300.45	12.20	12.74	-29.14	168.72	144.36	24.36		0			
3,500.00	3,407.37	3,471.15	3,346.19	12.41	12.96	-28.98	171.08	146.30	24.78	6.905	0			
3,550.00	3,454.05	3,521.09	3,391.93	12.62	13.18	-28.82	173.44	148.24	25.20	6.882	0			
3,600.00	3,500.72	3,571.03	3,437.66	12.82	13.40	-28.66	175.81	150.18	25.63		0			
3,650.00	3,547.39	3,620.97	3,483.40	13.03	13.62	-28.51	178.17	152.12	26.05		0			
3,700.00	3,594.06	3,670.91	3,529.14	13.24	13.85	-28.36	180.54	154.06	26.48		0			
3,750.00	3,640.73	3,720.86	3,574.88	13.45	14.07	-28.21	182.91	156.00	26.91		0			
	0,010110			10.10	11.07			100.00	20.01	0.100				
3,800.00	3,687.40	3,770.80	3,620.61	13.66	14.29	-28.07	185.28	157.94	27.34	6.778	0			
3,850.00	3,734.07	3,820.74	3,666.35	13.87	14.51	-27.94	187.65	159.88	27.76	6.759	0			
3,900.00	3,780.74	3,870.68	3,712.09	14.08	14.74	-27.80	190.02	161.82	28.19	6.740	0			
3,950.00	3,827.41	3,920.62	3,757.82	14.29	14.96	-27.67	192.39	163.76	28.62	6.721	0			
4,000.00	3,874.08	3,970.56	3,803.56	14.51	15.19	-27.54	194.76	165.71	29.06	6.703	0			
4,050.00	3,920.75	4,020.51	3,849.30	14.72	15.41	-27.42	197.14	167.65	29.49	6 685	0			
4,100.00	3,967.42	4,070.45	3,895.03	14.93	15.64	-27.30	199.51	169.59	29.92		0			
4,150.00	4,014.09	4,120.39	3,940.77	15.14	15.86	-27.18	201.89	171.53	30.35		0			
4,200.00	4,060.76	4,170.33	3,986.51	15.36	16.09	-27.06	204.26	173.48	30.79		0			
4,250.00	4,107.43	4,220.27	4,032.24	15.57	16.31	-26.95	206.64	175.42	31.22		0			
.,	.,	-,	.,								-			
4,300.00	4,154.10	4,270.21	4,077.98	15.78	16.54	-26.84	209.02	177.36	31.66	6.603	0			
4,350.00	4,200.78	4,320.16	4,123.72	16.00	16.76	-26.73	211.40	179.31	32.09	6.587	0			
4,400.00	4,247.45	4,370.10	4,169.45	16.21	16.99	-26.63	213.78	181.25	32.53		0			
4,450.00	4,294.12	4,420.04	4,215.19	16.42	17.22	-26.52	216.16	183.19	32.96	6.557	0			
4,500.00	4,340.79	4,469.98	4,260.93	16.64	17.44	-26.42	218.54	185.14	33.40	6.543	0			
4,550.00	4,387.46	4,519.92	4,306.66	16.85	17.67	-26.32	220.92	187.08	33.84	6 529	0			
4,600.00	4,307.40	4,519.92	4,306.66	17.07	17.07	-26.32	220.92	189.03	33.64 34.27		0			
4,650.00	4,434.13	4,619.81	4,352.40	17.07	17.90	-26.22	225.69	189.03	34.27		0			
4,850.00	4,400.00	4,619.81	4,396.14	17.20	18.35	-26.13	225.69	190.97	34.71		0			
4,750.00	4,574.14	4,719.69	4,489.61	17.50	18.58	-25.95	230.45	192.32	35.59		0			
4,100.00	7,017.14	-,, 10.00	-,00.01	11.11	10.00	20.00	200.40	104.00	55.58	0.710	5			
4,800.00	4,620.81	4,769.63	4,535.35	17.93	18.81	-25.86	232.84	196.81	36.03	6.463	0			
4,850.00	4,667.48	4,819.57	4,581.09	18.15	19.04	-25.77	235.22	198.76	36.47	6.450	0			
4,900.00	4,714.15	4,869.52	4,626.82	18.36	19.27	-25.68	237.61	200.70	36.91	6.438	0			
4,950.00	4,760.82	4,919.46	4,672.56	18.58	19.49	-25.60	240.00	202.65	37.35	6.426	0			
5,000.00	4,807.49	4,969.40	4,718.30	18.79	19.72	-25.52	242.38	204.60	37.79	6.414	0			
5 0F0 00	4,854.16	5 040 24	4,764.03	10.04	10.05	05 44	244 77	000 E 4	20.00	6 402	0			
5,050.00	4,054.16	5,019.34	4,704.03	19.01	19.95	-25.44	244.77	206.54	38.23	0.403	0			

10/9/2022 1:09:31PM

Released to Imaging: 12/29/2022 11:35:01 AM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

rvey Prog Refer		OMR2_OWSG	MWD+IFR1+	ED - O27F MS Semi Major				tance					Offset Well Error:	0.00 u
asured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
5,100.00	4,900.83	5,069.28	4,809.77	19.23	20.18	-25.36	247.16	208.49	38.67	6.392	0			
5,150.00	4,947.50	5,119.23	4,855.51	19.45	20.41	-25.28	249.55	210.44	39.11		0			
5,200.00	4,994.18	5,169.17	4,901.24	19.66	20.64	-25.20	251.93	212.38	39.55	6.370	0			
5,250.00	5,040.85	5,219.11	4,946.98	19.88	20.87	-25.13	254.32	214.33	39.99	6.359	0			
5,300.00	5,087.52	5,269.05	4,992.72	20.10	21.10	-25.06	256.71	216.28	40.43	6.349	0			
5,350.00	5,134.19	5,318.99	5,038.45	20.31	21.33	-24.98	259.10	218.23	40.88	6.339	0			
5,400.00	5,180.86	5,368.93	5,084.19	20.53	21.56	-24.91	261.49	220.18	41.32		0			
5,450.00	5,227.53	5,418.88	5,129.93	20.75	21.79	-24.84	263.88	222.12	41.76	6.319	0			
5,500.00	5,274.20	5,468.82	5,175.67	20.97	22.02	-24.78	266.28	224.07	42.20		0			
5,550.00	5,320.87	5,518.76	5,221.40	21.19	22.25	-24.71	268.67	226.02	42.65		0			
5,600.00	5,367.54	5,568.70	5,267.14	21.40	22.48	-24.64	271.06	227.97	43.09	6.291	0			
5,650.00	5,414.21	5,618.64	5,312.88	21.62	22.71	-24.58	273.45	229.92	43.53		0			
5,700.00	5,460.88	5,668.59	5,358.61	21.84	22.94	-24.52	275.84	231.87	43.98		0			
5,750.00	5,507.55	5,718.53	5,404.35	22.06	23.17	-24.45	278.24	233.82	44.42		0			
5,800.00	5,554.22	5,768.47	5,450.09	22.28	23.40	-24.39	280.63	235.77	44.86		0			
5,850.00	5,600.89	5,818.41	5,495.82	22.49	23.63	-24.33	283.02	237.72	45.31	6.247	0			
5,900.00	5,647.56	5,868.35	5,541.56	22.71	23.86	-24.27	285.42	239.67	45.75	6.238	0			
5,950.00	5,694.23	5,918.29	5,587.30	22.93	24.09	-24.22	287.81	241.62	46.20	6.230	0			
6,000.00	5,740.91	5,968.24	5,633.03	23.15	24.32	-24.16	290.21	243.57	46.64	6.222	0			
6,050.00	5,787.58	6,018.18	5,678.77	23.37	24.55	-24.10	292.60	245.52	47.09	6.214	0			
6,100.00	5,834.25	6,068.12	5,724.51	23.59	24.78	-24.05	295.00	247.47	47.53	6.207	0			
6,150.00	5,880.92	6,118.06	5,770.24	23.81	25.01	-23.99	297.39	249.42	47.97	6.199	0			
6,200.00	5,927.59	6,168.00	5,815.98	24.03	25.24	-23.94	299.79	251.37	48.42	6.191	0			
6,250.00	5,974.26	6,217.95	5,861.72	24.25	25.48	-23.89	302.18	253.32	48.87	6.184	0			
6,300.00	6,021.08	6,267.87	5,907.43	24.46	25.71	-23.82	304.96	255.62	49.34	6.181	0		SF	
6,350.00	6,068.20	6,317.73	5,953.10	24.68	25.94	-23.70	308.54	258.74	49.80	6.196	0			
6,400.00	6,115.60	6,367.52	5,998.70	24.89	26.17	-23.53	312.92	262.68	50.24	6.228	0			
6,450.00	6,163.27	6,417.23	6,044.23	25.10	26.40	-23.31	318.10	267.43	50.67		0			
6,500.00	6,211.20	6,466.84	6,089.66	25.30	26.63	-23.04	324.08	273.00	51.08	6.344	0			
6,550.00	6,259.37	6,516.34	6,134.98	25.51	26.86	-22.73	330.88	279.40	51.48	6.428	0			
6,600.00	6,307.77	6,565.70	6,180.19	25.71	27.09	-22.38	338.48	286.62	51.86	6.527	0			
6,650.00	6,356.38	6,614.91	6,225.26	25.90	27.32	-22.00	346.90	294.68	52.22	6.644	0			
6,700.00	6,405.18	6,663.97	6,270.19	26.10	27.54	-21.60	356.13	303.57	52.56	6.776	0			
6,750.00	6,454.17	6,712.85	6,314.95	26.28	27.77	-21.17	366.19	313.31	52.88	6.924	0			
6,800.00	6,503.33	6,761.54	6,359.54	26.47	28.00	-20.73	377.07	323.88	53.19	7.089	0			
6,850.00	6,552.63	6,810.02	6,403.94	26.65	28.22	-20.28	388.78	335.30	53.48	7.270	0			
6,900.00	6,602.08	6,858.28	6,448.14	26.84	28.44	-19.82	401.31	347.56	53.75	7.466	0			
6,950.00	6,651.64	6,906.31	6,492.13	27.01	28.67	-19.35	414.67	360.67	54.00	7.679	0			
7,000.00	6,701.32	6,954.09	6,535.88	27.19	28.89	-18.89	428.87	374.63	54.23	7.908	0			
7,050.00	6,751.08	7,001.60	6,579.40	27.36	29.11	-18.43	443.88	389.44	54.44	8.153	0			
7,100.00	6,800.93	7,048.84	6,622.65	27.53	29.33	-17.97	459.73	405.09	54.64	8.414	0			
7,150.00	6,850.83	7,095.78	6,665.64	27.69	29.55	-17.52	476.40	421.59	54.81	8.692	0			
7,200.00	6,900.78	7,142.42	6,708.35	27.86	29.76	-17.09	493.89	438.92	54.96	8.986	0			
7,250.00	6,950.76	7,188.73	6,750.77	28.01	29.98	-16.66	512.19	457.11	55.09	9.298	0			
7,300.00	7,000.76	7,234.71	6,792.87	28.17	30.19	-16.24	531.32	476.12	55.20	9.626	0			
7,350.00	7,050.76	7,280.50	6,834.81	28.32	30.41	82.73	550.90	495.39	55.51	9.924	0			
7,400.00	7,100.76	7,326.29	6,876.74	28.47	30.62	83.21	570.51	514.68	55.83	10.219	0			
7,450.00	7,150.76	7,372.08	6,918.68	28.62	30.83	83.65	590.16	534.01	56.16	10.509	0			
7,500.00	7,200.76	7,417.87	6,960.61	28.77	31.05	84.06	609.84	553.36	56.48	10.797	0			
7,550.00	7,250.76	7,463.66	7,002.55	28.93	31.26	84.45	629.54	572.73	56.81	11.081	0			
7,600.00	7,300.76	7,509.45	7,044.48	29.08	31.47	84.82	649.26	592.13	57.14	11.363	0			
7,650.00	7,350.76	7,555.24	7,086.42	29.23	31.69	85.17	669.01	611.54	57.47	11.641	0			
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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

urvey Progr	am: 0-X0	OMR2_OWSG	MWD+IFR1+	MS									Offset Well Error:	0.00 usft
Refere		– Offs		Semi Major	Axis		Dis	tance						
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
7,700.00	7,400.76	7,601.03	7,128.35	29.39	31.90	85.49	688.78	630.97		11.916	0			
7,750.00	7,450.76	7,646.82	7,170.29	29.54	32.11	85.80	708.56	650.42		12.188	0			
7,800.00	7,500.76	7,692.61	7,212.22	29.69	32.32	86.09	728.36	669.89		12.457	0			
7,850.00	7,550.76	7,738.40	7,254.16	29.85	32.54	86.36	748.17	689.37		12.723	0			
7,900.00	7,600.76	7,784.19	7,296.09	30.00	32.75	86.62	768.00	708.86		12.985	0			
7,950.00	7,650.76	7,829.98	7,338.03	30.16	32.96	86.87	787.84	728.36	59.48	13.245	0			
8,000.00	7,700.76	7,875.77	7,379.96	30.31	33.18	87.11	807.70	747.88	59.82	13.502	0			
8,050.00	7,750.76	7,930.07	7,429.75	30.47	33.43	87.37	827.45	767.26	60.19	13.746	0			
8,100.00	7,800.76	7,995.09	7,489.84	30.62	33.73	87.66	846.34	785.73	60.61	13.963	0			
8,150.00	7,850.76	8,061.30	7,551.61	30.78	34.02	87.91	864.18	803.15	61.03	14.160	0			
8,200.00	7,900.76	8,128.67	7,615.00	30.93	34.31	88.14	880.94	819.49	61.45	14.335	0			
8,250.00	7,950.76	8,197.17	7,679.98	31.09	34.61	88.35	896.61	834.73	61.88	14.490	0			
8,300.00	8,000.76	8,266.72	7,746.48	31.25	34.89	88.54	911.13	848.83	62.31	14.624	0			
8,350.00	8,050.76	8,337.28	7,814.42	31.40	35.18	88.71	924.50	861.77	62.73	14.737	0			
8,400.00	8,100.76	8,408.78	7,883.73	31.56	35.46	88.86	936.69	873.53	63.16	14.830	0			
8,450.00	8,150.76	8,481.15	7,954.30	31.72	35.73	88.99	947.67	884.08	63.59	14.904	0			
8,500.00	8,200.76	8,554.31	8,026.03	31.88	36.00	89.10	957.41	893.41	64.01	14.958	0			
8,550.00	8,250.76	8,628.17	8,098.80	32.03	36.26	89.20	965.91	901.48		14.992	0			
8,600.00	8,300.76	8,702.65	8,172.49	32.19	36.52	89.28	973.14	908.29		15.007	0			
8,650.00	8,350.76	8,777.66	8,246.95	32.35	36.77	89.34	979.09	913.83		15.004	0			
8,700.00	8,400.76	8,853.08	8,322.04	32.51	37.02	89.39	983.74	918.08		14.982	0			
8,750.00	8,450.76	8,928.83	8,397.61	32.67	37.26	89.43	987.09	921.03		14.943	0			
8,800.00	8,500.76	9,004.80	8,473.52	32.83	37.49	89.45	989.12	922.67		14.885	0			
8,850.00	8,550.76	9,080.88	8,549.59	32.98	37.71	89.46	989.84	923.01		14.811	0			
8,900.00	8,600.76	9,132.05	8,600.76	33.14	37.85	89.46	989.84	922.71		14.745	0			
8,950.00	8,650.76	9,182.05	8,650.76	33.30	37.99	89.46	989.84	922.41	67.43	14.680	0			
9,000.00	8,700.76	9,232.05	8,700.76	33.46	38.13	89.46	989.84	922.11	67.73	14.615	0			
9,050.00	8,750.76	9,282.05	8,750.76	33.62	38.28	89.46	989.84	921.82	68.03	14.551	0			
9,100.00	8,800.76	9,332.05	8,800.76	33.78	38.42	89.46	989.84	921.52	68.32	14.487	0			
9,150.00	8,850.76	9,382.05	8,850.76	33.94	38.56	89.46	989.84	921.22	68.62	14.424	0			
9,200.00	8,900.76	9,432.05	8,900.76	34.10	38.70	89.46	989.84	920.92	68.92	14.361	0			
9,250.00	8,950.76	9,482.05	8,950.76	34.26	38.85	89.46	989.84	920.61	69.23	14.299	0			
9,300.00	9,000.76	9,532.05	9,000.76	34.43	38.99	89.46	989.84	920.31	69.53	14.237	0			
9,350.00	9,050.76	9,582.05	9,050.76	34.59	39.14	89.46	989.84	920.01	69.83	14.175	0			
9,400.00	9,100.76	9,632.05	9,100.76	34.75	39.28	89.46	989.84	919.71	70.13	14.114	0			
9,450.00	9,150.76	9,682.05	9,150.76	34.91	39.42	89.46	989.84	919.41	70.44	14.053	0			
9,500.00	9.200.76	9,732.05	9,200.76	35.07	39.57	89.46	989.84	919.10	70 74	13.993	0			
9,550.00	9,250.76	9,732.05	9,200.76 9,250.76	35.23	39.57	89.46	989.84 989.84	918.80		13.933	0			
9,600.00	9,300.76	9,832.05	9,300.76	35.39	39.86	89.46	989.84	918.49		13.873	0			
9,650.00	9,350.76	9,882.05	9,350.76	35.56	40.00	89.46	989.84	918.19		13.814	0			
9,700.00	9,400.76	9,932.05	9,330.76 9,400.76	35.50	40.00	89.46	989.84	917.88		13.756	0			
9,750.00	9,450.76	9,982.05	9,450.76	35.88	40.30	89.46	989.84	917.58		13.697	0			
9,800.00	9,500.76	10,032.05	9,500.76	36.04	40.44	89.46	989.84	917.27		13.640	0			
9,850.00	9,550.76	10,082.05	9,550.76	36.21	40.59	89.46	989.84	916.96		13.582	0			
9,900.00	9,600.76	10,132.05	9,600.76	36.37	40.74	89.46	989.84	916.65		13.525	0			
9,950.00	9,650.76	10,182.05	9,650.76	36.53	40.88	89.46	989.84	916.35	73.49	13.468	0			
10,000.00	9,700.76	10,232.05	9,700.76	36.70	41.03	89.46	989.84	916.04		13.412	0			
10,050.00	9,750.76	10,282.05	9,750.76	36.86	41.18	89.46	989.84	915.73		13.356	0			
10,100.00	9,800.76	10,332.05	9,800.76	37.02	41.33	89.46	989.84	915.42		13.301	0			
10,150.00	9,850.76	10,382.05	9,850.76	37.19	41.47	89.46	989.84	915.11		13.246	0			
10,200.00	9,900.76	10,432.05	9,900.76	37.35	41.62	89.46	989.84	914.80	75.04	13.191	0			
10,250.00	9,950.76	10,482.05	9,950.76	37.51	41.77	89.46	989.84	914.49		13.136	0			

10/9/2022 1:09:31PM

Page 26



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
-			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Design OUTRIDER 27 FED - 027F 511H - 027F 511H - PLAN 5										Offset Site Error:	0.00 usft			
Survey Progr	ram: 0-X0	OMR2_OWSG	MWD+IFR1+	+MS									Offset Well Error:	0.00 usft
Refere		Offs		Semi Major			Dis	tance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
10,300.00	10,000.76	10,532.05	10,000.76	37.68	41.92	89.46	989.84	914.18	75.66	13.082	0			
10,350.00	10,050.76	10,582.05	10,050.76	37.84	42.07	89.46	989.84	913.87	75.97	13.029	0			
10,400.00	10,100.76	10,632.05	10,100.76	38.01	42.22	89.46	989.84	913.56	76.28	12.976	0			
10,450.00	10,150.76	10,682.05	10,150.76	38.17	42.37	89.46	989.84	913.24	76.60	12.923	0			
10,500.00	10,200.76	10,732.05	10,200.76	38.34	42.52	89.46	989.84	912.93	76.91	12.870	0			
10,550.00	10,250.76	10,782.05	10,250.76	38.50	42.67	89.46	989.84	912.62	77.22	12.818	0			
10,600.00	10,300.76	10,832.05	10,300.76	38.66	42.82	89.46	989.84	912.30	77.54	12.766	0			
10,650.00	10,350.76	10,882.05	10,350.76	38.83	42.97	89.46	989.84	911.99	77.85	12.715	0			
10,700.00	10,400.76	10,932.05	10,400.76	38.99	43.12	89.46	989.84	911.68	78.16	12.664	0			
10,750.00	10,450.76	10,982.05	10,450.76	39.16	43.27	89.46	989.84	911.36	78.48	12.613	0			
10,800.00	10,500.76	11,032.05	10,500.76	39.33	43.42	89.46	989.84	911.05	78.79	12.563	0			
10,850.00	10,550.76	11,082.05	10,550.76	39.49	43.57	89.46	989.84	910.73	79.11	12.512	0			
10,900.00	10,600.76	11,132.05	10,600.76	39.66	43.72	89.46	989.84	910.42		12.463	0			
10,950.00	10,650.76	11,182.05	10,650.76	39.82	43.88	89.46	989.84	910.10	79.74	12.413	0			
11,000.00	10,700.76	11,232.05	10,700.76	39.99	44.03	89.46	989.84	909.78	80.06	12.364	0			
11,050.00	10,750.76	11,282.05	10,750.76	40.15	44.18	89.46	989.84	909.47	80.37	12.316	0			
11,100.00	10,800.76	11,332.05	10,800.76	40.32	44.33	89.46	989.84	909.15	80.69	12.267	0			
11,150.00	10,850.76	11,382.05	10,850.76	40.49	44.49	89.46	989.84	908.83	81.01	12.219	0			
11,200.00	10,900.76	11,432.05	10,900.76	40.65	44.64	89.46	989.84	908.52	81.32	12.171	0			
11,250.00	10,950.76	11,482.05	10,950.76	40.82	44.79	89.46	989.84	908.20	81.64	12.124	0			
11,300.00	11,000.76	11,532.05	11,000.76	40.99	44.94	89.46	989.84	907.88	81.96	12.077	0			
11,350.00	11,050.76	11,582.05	11,050.76	41.15	45.10	89.46	989.84	907.56	82.28	12.030	0			
11,400.00	11,100.76	11,632.05	11,100.76	41.32	45.25	89.46	989.84	907.24	82.60	11.984	0			
11,450.00	11,150.76	11,682.05	11,150.76	41.49	45.41	89.46	989.84	906.92	82.92	11.938	0			
11,500.00	11,200.76	11,732.05	11,200.76	41.65	45.56	89.46	989.84	906.60	83.24	11.892	0			
11,550.00	11,250.76	11,782.05	11,250.76	41.82	45.71	89.46	989.84	906.28	83.56	11.846	0			
11,600.00	11,300.76	11,832.05	11,300.76	41.99	45.87	89.46	989.84	905.96	83.88	11.801	0			
11,650.00	11,350.76	11,882.05	11,350.76	42.15	46.02	89.46	989.84	905.64		11.756	0			
11,700.00	11,400.76	11,932.05	11,400.76	42.32	46.18	89.46	989.84	905.32		11.711	0			
11,750.00	11,450.76	11,982.05	11,450.76	42.49	46.33	89.46	989.84	905.00	84.84	11.667	0			
11,800.00	11,500.76	12,032.05	11,500.76	42.66	46.49	89.46	989.84	904.68	85.16	11.623	0			
11,850.00	11,550.76	12,082.05	11,550.76	42.82	46.64	89.46	989.84	904.36	85,48	11.579	0			
11,900.00	11,600.76	12,132.05	11,600.76	42.99	46.80	89.46	989.84	904.04		11.536	0			
11,950.00	11,650.76	12,182.05	11,650.76	43.16	46.95	89.46	989.84	903.71		11.493	0			
11,955.99	11,656.75	12,188.05	11,656.75	43.18	46.97	89.46	989.84	903.67		11.488	0			
12,000.00	11,700.76	12,231.84	11,700.52	43.33	47.11	89.39	989.84	903.39		11.450	0			



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

ffset De rvey Progr Refer	ram: 214	-XOMR2_OWS Offse	G MWD+IFR	ED - O27F 1+MS Semi Major				tance					Offset Well Error:	0.00 ι
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth Jusft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
0.00	0.00	0.00	0.00	0.00	0.00	-0.32	90.01				0			
50.00	50.00	49.01	49.01	0.04	0.08	-130.25	90.04	89.93	0.11	808.269	0			
100.00	100.00	99.01	99.01	0.13	0.15	-130.28	90.14	89.87	0.28	324.127	0			
150.00	150.00	149.02	149.02	0.22	0.23	-130.34	90.32	89.88	0.44	203.038	0			
200.00	200.00	199.02	199.02	0.36	0.31	-121.37	90.55	89.89	0.66	136.473	0			
250.00	250.00	249.16	249.16	0.54	0.45	-128.18	90.75	89.76	0.99	91.647	0			
300.00	299.99	299.35	299.35	0.71	0.63	-144.58	90.92	89.57	1.35	67.489	0			
350.00	349.99	349.35	349.35	0.89	0.81	-171.73	91.06	89.36	1.70	53.617	0			
400.00	399.99	399.27	399.27	1.07	0.98	150.23	91.21	89.16	2.05	44.550	0			
450.00	449.99	449.44	449.44	1.24	1.16	134.97	91.34	88.94	2.40	38.104	0			
500.00	499.99	499.66	499.66	1.42	1.33	127.72	91.38	88.64	2.75	33.265	0			
550.00	549.98	549.96	549.96	1.59	1.51	123.38	91.32	88.21	3 10	29.445	0			
600.00	599.98	600.30	600.29	1.77	1.69	120.52	91.10	87.65		26.362	0			
650.00	649.97	651.03	651.01	1.94	1.87	120.21	90.67	86.86		23.779	0			
700.00	699.95	701.58	701.53	2.12	2.06	121.07	90.00	85.83		21.586	0			
750.00	749.93	751.58	751.48	2.30	2.24	123.44	89.38	84.86		19.755	0			
800.00	799.90	801.23	801.02	2.47	2.41	125.74	89.04	84.16		18.252	0		00.50	
805.26	805.15	806.39	806.17	2.49	2.43	125.85	89.03	84.12		18.114	0		CC, ES	
850.00	849.85	850.26	849.91	2.65	2.59	127.30	89.35	84.12		17.086	0			
900.00	899.80	899.24	898.71	2.83	2.77	130.56	90.56	84.98		16.224	0			
950.00	949.73	948.41	947.71	3.01	2.94	134.71	92.62	86.69	5.93	15.608	0			
1,000.00	999.65	998.03	997.18	3.19	3.12	139.04	95.43	89.14	6.29	15.174	0			
1,050.00	1,049.55	1,048.22	1,047.27	3.36	3.29	143.16	98.59	91.94	6.65	14.835	0		SF	
1,100.00	1,099.44	1,072.00	1,071.00	3.54	3.38	144.72	105.18	98.27	6.91	15.223	0			
1,150.00	1,149.35	1,072.00	1,071.00	3.72	3.38	137.55	129.61	122.52	7.09	18.284	0			
1,200.00	1,199.28	1,072.00	1,071.00	3.90	3.38	120.31	165.48	158.21	7.27	22.770	0			
1,250.00	1,249.23	1,072.00	1,071.00	4.08	3.38	103.81	206.87	199.43	7 44	27.796	0			
1,300.00	1,299.20	1,072.00	1,071.00	4.25	3.38	77.57	251.04	243.43		32.963	0			
1,350.00	1,349.18	1,072.00	1,071.00	4.42	3.38	57.18	296.92	289.13		38.136	0			
1,400.00	1,399.17	1,072.00	1,071.00	4.59	3.38	1.93	343.76	335.80		43.212	0			
1,450.00	1,449.17	1,072.00	1,071.00	4.76	3.38	-29.21	391.47	383.35		48.198	0			
1,500.00	1,499.14	1,072.00	1,071.00	4.92	3.38	-27.55	439.54	431.25		53.045	0			
1,550.00	1,549.09	1,072.00	1,071.00	5.09	3.38	-26.29	487.81	479.36		57.735	0			
1,600.00	1,599.00	1,072.00	1,071.00	5.26	3.38	-32.21	536.27	527.66		62.254	0			
1,650.00	1,648.85	1,072.00	1,071.00	5.43	3.38	-34.66	584.90	576.13		66.627	0			
1,700.00	1,698.64	1,072.00	1,071.00	5.60	3.38	-35.13	633.66	624.72	8.94	70.866	0			
1,750.00	1,748.34	1,072.00	1,071.00	5.77	3.38	-34.47	682.49	673.39	9.10	74.970	0			
1,800.00	1,797.95	1,072.00	1,071.00	5.94	3.38	-33.15	731.38	722.12		78.957	0			
1,850.00	1,847.45	1,072.00	1,071.00	6.11	3.38	-31.46	780.29	770.87		82.821	0			
1,900.00	1,896.82	1,072.00	1,071.00	6.29	3.38	-29.60	829.22	819.64		86.585	0			
1,950.00	1,946.05	1,072.00	1,071.00	6.46	3.38	-27.68	878.14	868.40		90.235	0			
				0.00	0.00		007.04	047.45			0			
2,000.00	1,995.12	1,072.00	1,071.00	6.63	3.38	-25.78	927.04	917.15		93.799	U			
2,050.00	2,044.02	1,072.00	1,071.00	6.80	3.38	-23.95	975.91	965.87		97.229	0			
2,100.00	2,092.73	1,072.00	1,071.00	6.98	3.38	-22.21	1,024.74	1,014.56		100.638	0			
2,150.00	2,141.24	1,072.00	1,071.00	7.15	3.38	-20.59	1,073.52	1,063.19		103.948	0			
2,200.00	2,189.53	1,072.00	1,071.00	7.33	3.38	-19.07	1,122.25	1,111.78	10.48	107.131	0			
2,250.00	2,237.60	1,072.00	1,071.00	7.51	3.38	-17.68	1,170.92	1,160.30	10.62	110.256	0			
2,300.00	2,285.41	1,072.00	1,071.00	7.69	3.38	-16.40	1,219.52	1,208.75	10.76	113.301	0			
2,350.00	2,332.97	1,072.00	1,071.00	7.87	3.38	-15.22	1,268.04	1,257.13	10.91	116.273	0			
2,400.00	2,380.25	1,072.00	1,071.00	8.05	3.38	-14.14	1,316.48	1,305.43	11.05	119.167	0			
2,450.00	2,427.24	1,072.00	1,071.00	8.24	3.38	-13.15	1,364.84	1,353.65	11.19	121.990	0			
2 500 00	2 472 00	1 072 00	1 071 00	0 40	2 20	_10.60	1 / 12 12	1 /01 79	11.25	124 525	0			
2,500.00	2,473.96	1,072.00	1,071.00	8.42	3.38	-12.63	1,413.12	1,401.78	11.35	124.525	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	sign	OUTRIE	DER 27 FE	ED - 027F	512H - O	27F 512H	- O27F 512	:H					Offset Site Error:	0.00 usft
Survey Prog	ram: 214	-XOMR2_OWS	G MWD+IFR	1+MS									Offset Well Error:	0.00 usft
Refer	ence	Offse	et	Semi Major	Axis		Dis	tance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
2,550.00	2.520.63	1.072.00	1.071.00	8.61	3.38	-12.63	1.461.49	1.449.96		126.699	0			

10/9/2022 1:09:31PM



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

ffset De Irvey Prog Refer	ram: 0-X	OMR2_OWSG						stance					Offset Site Error: Offset Well Error:	0.00 u 0.00 u
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-0.32	90.01				0			
50.00	50.00	49.00	49.00	0.04	0.06	-130.27	90.04	89.94	0.10	924.703	0			
100.00	100.00	99.00	99.00	0.13	0.12	-130.35	90.15	89.90	0.25	360.753	0			
150.00	150.00	149.00	149.00	0.22	0.30	-130.49	90.34	89.82		174.937	0			
200.00	200.00	199.00	199.00	0.36	0.48	-121.63	90.58	89.74	0.84	108.202	0			
250.00	250.00	249.00	249.00	0.54	0.66	-128.58	90.82	89.62	1.20	75.981	0			
300.00	299.99	298.99	298.99	0.71	0.84	-145.06	91.13	89.57	1.55	58.662	0			
350.00	349.99	348.99	348.99	0.89	1.02	-172.25	91.48	89.57	1.91	47.914	0			
400.00	399.99	398.99	398.99	1.07	1.20	149.75	91.80	89.54	2.26	40.547	0			
450.00	449.99	448.99	448.99	1.24	1.38	134.56	92.12	89.50	2.62	35.193	0			
500.00	499.99	498.99	498.99	1.42	1.56	127.33	92.47	89.50	2.97	31.127	0			
550.00	549.98	549.16	549.15	1.59	1.73	123.21	92.80	89.48	3.32	27.944	0			
600.00	599.98	599.28	599.26	1.77	1.91	121.04	93.08	89.41	3.67	25.355	0		ES	
650.00	649.97	649.31	649.24	1.94	2.08	121.73	93.43	89.41	4.02	23.244	0			
700.00	699.95	699.19	699.03	2.12	2.25	123.73	94.01	89.65	4.37	21.523	0			
750.00	749.93	748.89	748.58	2.30	2.43	127.17	94.96	90.24	4.72	20.125	0			
800.00	799.90	798.54	798.04	2.47	2.60	130.11	96.39	91.32	5.07	19.012	0			
850.00	849.85	848.16	847.47	2.65	2.78	131.75	98.31	92.89		18.129	0			
900.00	899.80	897.74	896.86	2.83	2.95	134.60	100.73	94.96		17.441	0			
950.00	949.73	947.29	946.22	3.01	3.13	134.00	103.70	97.57		16.919	0			
1,000.00	999.65	996.81	995.56	3.19	3.30	142.45	107.23	100.74		16.541	0			
1,050.00	1,049.55	1,046.30	1,044.85	3.36	3.48	146.55	111.33	104.49		16.286	0			
1,100.00	1,099.44	1,095.77	1,094.13	3.54	3.66	149.66	115.87	108.68		16.113	0			
1,150.00	1,149.35	1,145.26	1,143.44	3.72	3.84	145.16	120.43	112.88		15.956	0			
1,200.00	1,199.28	1,194.78	1,192.77	3.90	4.01	130.68	124.53	116.63		15.754	0			
1,250.00	1,249.23	1,243.29	1,241.07	4.08	4.19	116.24	128.22	119.96	8.26	15.530	0			
1,300.00	1,299.20	1,291.51	1,288.99	4.25	4.36	92.02	131.78	123.17	8.61	15.313	0			
1,350.00	1,349.18	1,339.60	1,336.69	4.42	4.54	72.22	135.53	126.58	8.95	15.143	0			
1,400.00	1,399.17	1,387.58	1,384.17	4.59	4.71	17.07	139.36	130.07	9.29	14.995	0			
1,450.00	1,449.17	1,435.41	1,431.38	4.76	4.89	-13.65	144.12	134.48	9.64	14.955	0			
1,500.00	1,499.14	1,483.08	1,478.30	4.92	5.06	-11.38	148.98	139.00	9.98	14.934	0			
1,550.00	1,549.09	1,530.61	1,524.94	5.09	5.24	-9.60	153.83	143.51	10.31	14.914	0			
1,600.00	1,599.00	1,578.01	1,571.28	5.26	5.42	-16.86	158.84	148.19	10.65	14.909	0			
1,650.00	1,648.85	1,625.30	1,617.35	5.43	5.59	-20.93	164.13	153.13	10.99	14.929	0			
1,700.00	1,698.64	1,672.47	1,663.12	5.60	5.77	-23.24	169.65	158.32	11.33	14.971	0			
1,750.00	1,748.34	1,719.53	1,708.60	5.77	5.95	-24.53	175.38	163.71	11.67	15.029	0			
1,800.00	1,797.95	1,766.48	1,753.76	5.94	6.13	-25.22	181.29	169.29	12.01	15.099	0			
1,850.00	1,847.45	1,813.32	1,798.60	6.11	6.31	-25.53	187.36	175.01		15.179	0			
1,900.00	1,896.82	1,860.05	1,798.60	6.29	6.49	-25.53	193.55	180.87		15.179	0			
1,900.00	1,090.02	1,860.05	1,887.28	6.29	6.67	-25.61	193.55	186.84		15.267	0			
2,000.00	1,940.05	1,953.19	1,931.10	6.63	6.85	-25.41	206.25	192.91		15.454	0			
2,050.00			1,974.94	6.80	7.04	-25.20	212.73	199.05		15.547	0			
2,100.00	2,092.73	2,045.92	2,017.67	6.98	7.23	-24.98	219.27	205.25		15.649	0			
2,150.00	2,141.24	2,092.12	2,060.40	7.15	7.41	-24.75	225.85	211.51		15.749	0			
2,200.00	2,189.53	2,138.23	2,102.74	7.33	7.60	-24.52	232.48	217.80		15.842	0			
2,250.00	2,237.60	2,184.24	2,144.70	7.51	7.79	-24.29	239.13	224.13	15.01	15.936	0			
2,300.00	2,285.41	2,230.15	2,186.25	7.69	7.99	-24.08	245.81	230.47		16.027	0			
2,350.00	2,332.97	2,275.96	2,227.41	7.87	8.18	-23.89	252.49	236.82		16.115	0			
2,400.00	2,380.25	2,324.42	2,270.69	8.05	8.39	-23.71	258.99	242.98	16.01	16.175	0			
2,450.00	2,427.24	2,374.06	2,315.00	8.24	8.61	-23.61	264.79	248.43	16.36	16.185	0			
2,500.00	2,473.96	2,423.79	2,359.39	8.42	8.83	-23.49	269.90	253.17	16.73	16.132	0			
2,550.00	2,520.63	2,473.53	2,403.80	8.61	9.05	-23.28	274.91	257.77	17.13	16.046	0			
	,.=:::0	,	,											

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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

	sign			ED - 027F	512H - O	27F 512H	PLAN 6						Offset Site Error:	0.00 u
rvey Progr Refere		OMR2_OWSG Offse		∙MS Semi Major	Avie		Dis	tance					Offset Well Error:	0.00 u
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
2,600.00	2,567.30	2,523.27	2,448.20	8.80	9.27	-23.08	279.91	262.38	17.54	15.962	0			
2,650.00	2,613.97	2,573.00	2,492.61	8.99	9.49	-22.88	284.92	266.98		15.879	0			
2,700.00	2,660.64	2,622.74	2,537.01	9.18	9.72	-22.69	289.93	271.58		15.798	0			
2,750.00	2,707.32	2,672.48	2,581.42	9.38	9.94	-22.51	294.95	276.19	18.76	15.718	0			
2,800.00	2,753.99	2,722.22	2,625.82	9.57	10.17	-22.33	299.97	280.79	19.18	15.641	0			
2,850.00	2,800.66	2,771.96	2,670.22	9.77	10.40	-22.16	304.99	285.39	19.60	15.564	0			
2 000 00	0.047.00	0 001 70	0 714 60	0.07	10.62	21.00	210.01	200.00	20.01	15 400	0			
2,900.00 2,950.00	2,847.33 2,894.00	2,821.70 2,871.44	2,714.63 2,759.03	9.97	10.63 10.86	-21.99 -21.83	310.01 315.04	290.00 294.61		15.490 15.418	0 0			
3,000.00	2,894.00	2,071.44	2,759.03	10.17 10.37	11.09	-21.63	315.04	294.01		15.416	0			
3,050.00	2,940.87	2,921.18	2,803.44	10.57	11.09	-21.66	320.07	303.82		15.347	0			
3,100.00	3,034.01	3,020.66	2,892.25	10.57	11.52	-21.33	325.10	308.43		15.211	0			
3,100.00	3,034.01	5,020.00	2,032.25	10.77	11.55	-21.50	550.15	500.45	21.70	13.211	0			
3,150.00	3,080.68	3,070.40	2,936.65	10.97	11.78	-21.24	335.17	313.04	22.13	15.145	0			
3,200.00	3,127.35	3,120.13	2,981.05	11.17	12.02	-21.10	340.20	317.65	22.56	15.081	0			
3,250.00	3,174.02	3,169.87	3,025.46	11.38	12.25	-20.97	345.24	322.26	22.99	15.019	0			
3,300.00	3,220.69	3,219.61	3,069.86	11.58	12.48	-20.84	350.28	326.87	23.42	14.958	0			
3,350.00	3,267.36	3,269.35	3,114.27	11.79	12.72	-20.71	355.33	331.48	23.85	14.899	0			
3,400.00	3,314.03	3,319.09	3,158.67	11.99	12.96	-20.59	360.37	336.09	24.28	14.842	0			
3,450.00	3,360.70	3,368.83	3,203.08	12.20	12.30	-20.33	365.42	340.70		14.785	0			
3,500.00	3,407.37	3,418.57	3,247.48	12.20	13.13	-20.47	370.46	345.31		14.731	0			
3,550.00	3,454.05	3,468.31	3,247.48	12.41	13.43	-20.30	375.51	349.93		14.677	0			
3,600.00	3,500.72	3,518.05	3,336.29	12.82	13.90	-20.23	380.56	354.54		14.625	0			
5,000.00	5,500.72	5,510.05	5,550.25	12.02	15.50	-20.14	500.50	334.34	20.02	14.025	0			
3,650.00	3,547.39	3,567.79	3,380.69	13.03	14.14	-20.03	385.61	359.15	26.46	14.574	0			
3,700.00	3,594.06	3,617.53	3,425.10	13.24	14.38	-19.93	390.66	363.77	26.90	14.525	0			
3,750.00	3,640.73	3,667.27	3,469.50	13.45	14.62	-19.82	395.72	368.38	27.33	14.477	0			
3,800.00	3,687.40	3,717.00	3,513.90	13.66	14.86	-19.73	400.77	373.00	27.77	14.430	0			
3,850.00	3,734.07	3,766.74	3,558.31	13.87	15.10	-19.63	405.83	377.62	28.21	14.384	0			
3,900.00	3,780.74	3,816.48	3,602.71	14.08	15.34	-19.53	410.89	382.23	29.65	14.339	0			
3,950.00	3,827.41	3,866.22	3,647.12	14.08	15.54	-19.55	415.95	386.85		14.339	0			
4,000.00	3,874.08	3,915.96	3,691.52	14.29	15.82	-19.44	415.95	391.47		14.253	0			
4,050.00	3,920.75	3,965.70	3,735.93	14.72	16.06	-19.27	426.07	396.08		14.233	0			
4,100.00	3,967.42	4,015.44	3,780.33	14.93	16.30	-19.18	431.13	400.70		14.171	0			
4,100.00	5,507.42	4,013.44	5,700.55	14.55	10.50	-13.10	401.10	400.70	50.42	14.171	0			
4,150.00	4,014.09	4,065.18	3,824.73	15.14	16.54	-19.10	436.19	405.32	30.87	14.131	0			
4,200.00	4,060.76	4,114.92	3,869.14	15.36	16.78	-19.02	441.25	409.94	31.31	14.092	0			
4,250.00	4,107.43	4,164.66	3,913.54	15.57	17.02	-18.94	446.32	414.56	31.76	14.055	0			
4,300.00	4,154.10	4,214.40	3,957.95	15.78	17.27	-18.86	451.38	419.18	32.20	14.018	0			
4,350.00	4,200.78	4,264.13	4,002.35	16.00	17.51	-18.78	456.45	423.80	32.65	13.982	0			
4,400.00	4,247.45	4,313.87	4,046.76	16.21	17.75	-18.71	461.51	428.42	22.00	13.946	0			
4,450.00	4,247.43	4,313.67	4,040.70	16.42	17.99	-18.64	466.58	420.42		13.940	0			
4,450.00	4,294.12	4,303.01	4,135.56	16.64	18.24	-18.57	400.58	437.66		13.878	0			
4,550.00	4,340.79	4,413.35	4,135.50	16.85	18.48	-18.57	471.03	442.28		13.845	0			
4,600.00	4,434.13	4,512.83	4,224.37	17.07	18.72	-18.43	481.79	446.91	34.88	13.813	0			
4,650.00	4,480.80	4,562.57	4,268.78	17.28	18.96	-18.36	486.86	451.53	35.33	13.781	0			
4,700.00	4,527.47	4,612.31	4,313.18	17.50	19.21	-18.30	491.93	456.15		13.751	0			
4,750.00	4,574.14	4,662.05	4,357.59	17.71	19.45	-18.23	497.00	460.77		13.720	0			
4,800.00	4,620.81	4,711.79	4,401.99	17.93	19.70	-18.17	502.07	465.40	36.67	13.691	0			
4,850.00	4,667.48	4,761.53	4,446.39	18.15	19.94	-18.11	507.14	470.02		13.662	0			
				10	00.45		540.61			10.001				
4,900.00	4,714.15	4,811.26	4,490.80	18.36	20.18	-18.05	512.21	474.65		13.634	0			
4,950.00	4,760.82	4,861.00	4,535.20	18.58	20.43	-17.99	517.29	479.27		13.606	0			
5,000.00	4,807.49	4,910.74	4,579.61	18.79	20.67	-17.93	522.36	483.89		13.579	0			
5,050.00	4,854.16	4,960.48	4,624.01	19.01	20.92	-17.87	527.44	488.52		13.552	0			
5,100.00	4,900.83	5,010.22	4,668.42	19.23	21.16	-17.82	532.51	493.14	39.37	13.526	0			
5,150.00	4,947.50	5,059.96	4,712.82	19.45	21.40	-17.76	537.59	497.77	39.82	13.501	0			

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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	-			ED - 027F	512H - O	27F 512H ·	PLAN 6						Offset Site Error:	0.00 us
urvey Prog Refer		OMR2_OWSG Offse		+MS Semi Major	Avio		Die	tance					Offset Well Error:	0.00 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
5,200.00	4,994.18	5,109.70	4,757.22	19.66	21.65	-17.71	542.66	502.39	40.27	13.476	0			
5,250.00	5,040.85	5,159.44	4,801.63	19.88	21.89	-17.66	547.74	507.02	40.72	13.451	0			
5,300.00	5,087.52	5,209.18	4,846.03	20.10	22.14	-17.60	552.82	511.65	41.17	13.427	0			
5,350.00	5,134.19	5,258.92	4,890.44	20.31	22.38	-17.55	557.89	516.27	41.62	13.403	0			
5,400.00	5,180.86	5,308.66	4,934.84	20.53	22.63	-17.50	562.97	520.90		13.380	0			
5,450.00	5,227.53	5,358.40	4,979.25	20.75	22.87	-17.46	568.05	525.52	42.53	13.357	0			
5,500.00	5,274.20	5,408.13	5,023.65	20.97	23.12	-17.41	573.13	530.15	42.98	13.335	0			
5,550.00	5,320.87	5,457.87	5,068.05	21.19	23.36	-17.36	578.21	534.78	43.43	13.313	0			
5,600.00	5,367.54	5,507.61	5,112.46	21.40	23.61	-17.31	583.29	539.40	43.88	13.292	0			
5,650.00	5,414.21	5,557.35	5,156.86	21.62	23.86	-17.27	588.37	544.03		13.271	0			
5,700.00	5,460.88	5,607.09	5,201.27	21.84	24.10	-17.22	593.45	548.66	44.79	13.250	0			
5,750.00	5,507.55	5,656.83	5,245.67	22.06	24.35	-17.18	598.53	553.29	45.24	13.230	0			
5,800.00	5,554.22	5,706.57	5,290.08	22.28	24.59	-17.14	603.61	557.92		13.210	0			
5,850.00	5,600.89	5,756.31	5,334.48	22.49	24.84	-17.09	608.69	562.54		13.190	0			
5,900.00		5,806.05	5,378.88	22.71	25.08	-17.05	613.77	567.17		13.171	0			
5,950.00	5,694.23	5,855.79	5,423.29	22.93	25.33	-17.01	618.85	571.80	47.05	13.152	0			
6,000.00	5,740.91	5,905.53	5,467.69	23.15	25.58	-16.97	623.94	576.43	47 51	13.134	0			
6,050.00	5,740.91	5,955.26	5,512.10	23.15	25.82	-16.93	629.02	581.06		13.134	0			
6,100.00	5,834.25	6,005.00	5,556.50	23.59	26.07	-16.89	634.10	585.69		13.098	0			
6,150.00	5,880.92	6,054.74	5,600.91	23.81	26.32	-16.85	639.18	590.32		13.080	0			
6,200.00	5,927.59	6,104.48	5,645.31	24.03	26.56	-16.81	644.27	594.95		13.063	0			
6,250.00	5,974.26	6,154.22	5,689.71	24.25	26.81	-16.78	649.35	599.57		13.046	0			
6,300.00	6,021.08	6,203.92	5,734.08	24.46	27.05	-16.76	654.83	604.59		13.034	0		SF	
6,350.00	6,068.20	6,253.51	5,778.35	24.68	27.30	-16.73	661.15	610.46		13.042	0			
6,400.00	6,115.60	6,302.98	5,822.52	24.89	27.54	-16.68	668.29	617.17		13.071	0			
6,450.00	6,163.27	6,352.33	5,866.57	25.10	27.79	-16.62	676.27	624.72	51.54	13.120	0			
6,500.00	6,211.20	6,401.52	5,910.49	25.30	28.03	-16.54	685.07	633.12	51.94	13.188	0			
6,550.00	6,259.37	6,450.56	5,954.27	25.51	28.28	-16.45	694.69	642.37	52.33	13.276	0			
6,600.00	6,307.77	6,499.42	5,997.88	25.71	28.52	-16.35	705.14	652.45	52.69	13.383	0			
6,650.00	6,356.38	6,548.08	6,041.33	25.90	28.76	-16.24	716.41	663.38	53.04	13.508	0			
6,700.00	6,405.18	6,596.54	6,084.59	26.10	29.00	-16.12	728.51	675.15	53.36	13.652	0			
6,750.00	6,454.17	6,644.78	6,127.65	26.28	29.24	-15.99	741.42	687.75	53.67	13.814	0			
6,800.00	6,503.33	6,692.78	6,170.51	26.47	29.48	-15.86	755.16	701.19		13.994	0			
6,850.00	6,552.63	6,740.53	6,213.14	26.65	29.72	-15.71	769.70	715.47	54.23	14.193	0			
6,900.00	6,602.08	6,788.01	6,255.53	26.84	29.95	-15.57	785.06	730.58	54.48	14.410	0			
6,950.00	6,651.64	6,835.22	6,297.67	27.01	30.19	-15.42	801.24	746.52	54.71	14.645	0			
7,000.00	6,701.32	6,882.13	6,339.55	27.19	30.42	-15.26	818.21	763.29	54.02	14.897	0			
7,000.00	6,701.32	6,928.73	6,339.55 6,381.15	27.19	30.42	-15.26	835.99	763.29		14.897	0			
7,100.00		6,975.01	6,422.47	27.53	30.88	-14.95	854.57	799.29		15.458	0			
7,150.00	6,850.83	7,020.95	6,463.48	27.69	31.11	-14.79	873.95	818.52		15.766	0			
7,200.00	6,900.78	7,066.54	6,504.18	27.86	31.33	-14.63	894.12	838.56		16.092	0			
7,250.00		7,111.77	6,544.56	28.01	31.56	-14.47	915.07	859.41		16.439	0			
7,300.00	7,000.76	7,156.62	6,584.60	28.17	31.78	-14.32	936.81	881.06		16.803	0			
7,350.00	7,050.76	7,201.26	6,624.45	28.32	32.00	84.41	958.97	902.90		17.103	0			
7,400.00	7,100.76	7,245.89	6,664.30	28.47	32.23	84.67	981.16	924.76		17.396	0			
7,450.00	7,150.76	7,290.53	6,704.15	28.62	32.45	84.92	1,003.36	946.62	56.73	17.685	0			
7,500.00	7,200.76	7,335.17	6,744.00	28.77	32.67	85.15	1,025.57	968.50	57.07	17.971	0			
7,550.00	7,250.76	7,379.81	6,783.85	28.93	32.89	85.38	1,047.80	990.39	57.40	18.254	0			
7,600.00	7,300.76	7,424.44	6,823.70	29.08	33.11	85.60	1,070.03	1,012.30	57.74	18.533	0			
7,650.00	7,350.76	7,469.08	6,863.55	29.23	33.34	85.80	1,092.29	1,034.21	58.07	18.809	0			
7,700.00	7,400.76	7,513.72	6,903.40	29.39	33.56	86.00	1,114.55	1,056.14	58.41	19.082	0			
7,750.00	7,450.76	7,558.36	6,943.24	29.54	33.78	86.19	1,136.82	1,078.07	58 75	19.351	0			
1,130.00	1,-00.70	1,000.00	0,040.24	29.04	55.10	00.19	1,130.02	1,070.07	50.75	13.331	5			

10/9/2022 1:09:31PM

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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	sign	OUTRIE	DER 27 FE	ED - 027F	512H - O	27F 512H ·	- PLAN 6						Offset Site Error:	0.00 usft
Survey Progr	ram: 0-X0	OMR2_OWSG	MWD+IFR1+	MS									Offset Well Error:	0.00 usft
Refere	ence	Offse	ət	Semi Major	Axis		Dis	tance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
	7.500.76			00.00	34.00					40.047	0			
7,800.00		7,602.99	6,983.09	29.69		86.38	1,159.10	1,100.02		19.617				
7,850.00	7,550.76	7,647.63	7,022.94	29.85	34.22	86.56	1,181.39	1,121.97		19.880	0			
7,900.00	7,600.76	7,692.27	7,062.79	30.00	34.45	86.73	1,203.70	1,143.93	59.76	20.141	0			
7,950.00	7,650.76	7,736.90	7,102.64	30.16	34.67	86.89	1,226.00	1,165.90	60.11	20.398	0			
8,000.00	7,700.76	7,781.54	7,142.49	30.31	34.89	87.05	1,248.32	1,187.87	60.45	20.652	0			
8,050.00	7,750.76	7,826.18	7,182.34	30.47	35.11	87.21	1,270.65	1,209.86	60.79	20.903	0			
8,100.00	7,800.76	7,870.82	7,222.19	30.62	35.34	87.35	1,292.98	1,231.85	61.13	21.151	0			
8,150.00	7,850.76	7,915.45	7,262.04	30.78	35.56	87.50	1,315.31	1,253.84	61.47	21.396	0			
8,200.00	7,900.76	7,960.09	7,301.89	30.93	35.78	87.64	1,337.66	1,275.84	61.82	21.639	0			
8,250.00	7,950.76	8,004.73	7,341.74	31.09	36.00	87.77	1,360.01	1,297.85	62.16	21.879	0			
8,300.00	8,000.76	8,070.19	7,400.33	31.25	36.33	87.96	1,382.20	1,319.60	62.59	22.082	0			
8,350.00	8,050.76	8,157.74	7,479.65	31.40	36.75	88.18	1,403.20	1,340.08	63.12	22.232	0			
8,400.00	8,100.76	8,247.76	7,562.35	31.56	37.17	88.38	1,422.80	1,359.16	63.65	22.355	0			
8,450.00	8,150.76	8,340.17	7,648.37	31.72	37.58	88.57	1,440.95	1,376.77	64.18	22.451	0			
8,500.00	8.200.76	8,434.86	7,737.59	31.88	37.99	88.73	1,457.58	1,392.86	64.72	22.521	0			
8,550.00	8,250.76	8,531.71	7,829.87	32.03	38.39	88.88	1,472.64	1,407.38		22.566	0			
8,600.00	8,300.76	8,630.56	7,925.03	32.19	38.78	89.01	1,486.08	1,420.28	65.80	22.585	0			

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GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

		_		1+MS, 1192-X0	-								Offset Well Error:	0.00 us
Refer		Offse		Semi Major				tance				.		
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
1,123.00	1,122.40	1,123.00	1,122.40	0.00	0.00	-62.23	0.04				0			
1,150.00	1,149.35	1,150.00	1,149.35	0.10	0.05	-66.29	0.11	-0.04	0.15	0.747	0		Level 1, ES, SF	
1,200.00	1,199.28	1,199.99	1,199.26	0.28	0.13	-88.29	0.92	0.51	0.41	2.262	0			
1,250.00	1,249.23	1,249.96	1,249.17	0.45	0.15	-107.32	2.46	1.86	0.60	4.102	0			
1,300.00	1,299.20	1,299.89	1,299.06	0.63	0.18	-138.14	4.87	4.07	0.80	6.088	0			
1,350.00	1,349.18	1,349.78	1,348.92	0.80	0.22	-163.02	7.47	6.45	1.01	7.363	0			
1,400.00	1,399.17	1,399.59	1,398.68	0.97	0.26	136.87	10.54	9.31	1.23	8.583	0			
1,450.00	1,449.17	1,449.39	1,448.38	1.13	0.31	98.77	13.39	11.94	1.44	9.278	0			
1,500.00	1,499.14	1,499.20	1,498.02	1.30	0.37	93.71	16.73	15.06	1.67	10.017	0			
1,550.00	1,549.09	1,549.07	1,547.70	1.47	0.43	91.73	20.25	18.36		10.669	0			
1,600.00	1,599.00	1,580.00	1,578.51	1.64	0.47	82.43	30.20	28.11	2.09	14.433	0			
1,650.00	1,648.85	1,580.00	1,578.51	1.81	0.47	74.76	73.71	71.46	2.25	32.823	0			
1,700.00	1,698.64	1,580.00	1,578.51	1.98	0.47	67.53	122.18	119.79		51.137	0			
1,750.00	1,748.34	1,580.00	1,578.51	2.15	0.47	60.41	171.45	168.93		68.050	0			
1,800.00	1,797.95	1,580.00	1,578.51	2.32	0.47	53.48	220.97	218.34		84.022	0			
1,850.00	1,847.45	1,580.00	1,578.51	2.49	0.47	46.99	270.60	267.88		99.604	0			
1,900.00	1,896.82	1,580.00	1,578.51	2.66	0.47	41.12	320.27	317.51	0.75	116.334	0			
	1,090.02		1,578.51	2.84	0.47	35.99	369.95	366.99		125.104	0			
1,950.00 2,000.00	1,946.05	1,580.00 1,580.00	1,578.51	3.01	0.47	35.99 31.59	419.63	416.40		130.006	0			
2,000.00	2,044.02	1,580.00	1,578.51	3.18	0.47	27.86	419.63	416.40		130.006	0			
2,050.00	2,044.02	1,580.00	1,578.51	3.36	0.47	24.72	409.30 518.94	515.23		140.123	0			
2,150.00	2,141.24	1,580.00	1,578.51	3.53	0.47	22.08	568.55	564.64		145.380	0			
2,200.00	2,189.53	1,580.00	1,578.51	3.71	0.47	19.84	618.12	614.00		150.048	0			
2,250.00	2,237.60	1,580.00	1,578.51	3.89	0.47	17.95	667.66	663.33		154.466	0			
2,300.00	2,285.41	1,580.00	1,578.51	4.07	0.47	16.33	717.14	712.62		158.527	0			
2,350.00	2,332.97	1,580.00	1,578.51	4.25	0.47	14.94	766.58	761.86	4.72	162.377	0			
2,400.00	2,380.25	1,580.00	1,578.51	4.43	0.47	13.74	815.96	811.04	4.91	166.036	0			
2,450.00	2,427.24	1,580.00	1,578.51	4.62	0.47	12.69	865.28	860.17	5.11	169.347	0			
2,500.00	2,473.96	1,580.00	1,578.51	4.81	0.47	12.17	914.55	909.24	5.30	172.486	0			
2,550.00	2,520.63	1,580.00	1,578.51	5.00	0.47	12.17	963.87	958.37	5.50	175.391	0			
2,600.00	2,567.30	1,580.00	1,578.51	5.19	0.47	12.17	1,013.26	1,007.57	5.69	178.074	0			
2,650.00	2,613.97	1,580.00	1,578.51	5.38	0.47	12.17	1,062.71	1,056.82	5.89	180.548	0			
2,700.00	2,660.64	1,580.00	1,578.51	5.58	0.47	12.17	1,112.20	1,106.12		182.849	0			
2,750.00	2,707.32	1,580.00	1,578.51	5.77	0.47	12.17	1,161.74	1,155.46		184.975	0			
2,800.00	2,753.99	1,580.00	1,578.51	5.97	0.47	12.17	1,211.32	1,204.84	6.48	186.964	0			
2,850.00	2,800.66	1,580.00	1,578.51	6.17	0.47	12.17	1,260.93	1,254.25		188.805	0			
2,900.00	2,847.33	1,580.00	1,578.51	6.37	0.47	12.17	1,310.57	1,303.69	6 00	190.535	0			
2,900.00	2,847.33	1,580.00	1,578.51	6.57	0.47	12.17	1,310.57	1,303.69		190.555	0			
3,000.00	2,894.00	1,580.00	1,578.51	6.77	0.47	12.17	1,409.93	1,402.65		192.141	0			
3,050.00	2,940.07	1,580.00	1,578.51	6.97	0.47	12.17	1,459.64	1,452.16		195.064	0			

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



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Network Version Deam Deam Network Net	Offset Des	sign	OUTRI	DER 27 FE	ED - 027F	605H - O	27F 605H	OH - PLAN	3					Offset Site Error:	0.00 usft
Nersel (with) Nersel			-											Offset Well Error:	0.00 usft
peph invitControlBinescoSegure invitParte invitParter invit00 <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>Higheide</th> <th></th> <th></th> <th>Minimum</th> <th>Concretion</th> <th>Biskod</th> <th>Brobability</th> <th>18/</th> <th></th>					-		Higheide			Minimum	Concretion	Biskod	Brobability	18/	
biol biol <th< th=""><th>Depth</th><th>Depth</th><th>Depth</th><th>Depth</th><th></th><th></th><th>Toolface</th><th>Centres</th><th>Ellipses</th><th>Separation</th><th></th><th>Separation</th><th></th><th>warning</th><th></th></th<>	Depth	Depth	Depth	Depth			Toolface	Centres	Ellipses	Separation		Separation		warning	
1000 1000 1000 0.000 0.030 0.33 1000 0.25 -0.02 0.25 0.30 0.04 0.000 <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0			
19100 19100 19000 0.22 0.01 0.02 0.03 0.02 0.04 0.02 2000 2000 2000 2000 0.05 0.04 0.05	50.00	50.00	50.00	50.00	0.04	0.06	180.00	0.06	-0.04	0.10	0.582	0		Level 1	
2000 2000 <th< td=""><td>100.00</td><td>100.00</td><td>100.00</td><td>100.00</td><td>0.13</td><td>0.13</td><td>180.00</td><td>0.23</td><td>-0.02</td><td>0.25</td><td>0.913</td><td>0</td><td></td><td>Level 1</td><td></td></th<>	100.00	100.00	100.00	100.00	0.13	0.13	180.00	0.23	-0.02	0.25	0.913	0		Level 1	
2500 2500 <th< td=""><td>150.00</td><td>150.00</td><td>150.00</td><td>150.00</td><td>0.22</td><td>0.30</td><td>180.00</td><td>0.52</td><td>0.00</td><td>0.52</td><td>0.993</td><td>0</td><td></td><td>Level 1</td><td></td></th<>	150.00	150.00	150.00	150.00	0.22	0.30	180.00	0.52	0.00	0.52	0.993	0		Level 1	
Solo Solo <th< td=""><td>200.00</td><td>200.00</td><td>200.00</td><td>200.00</td><td>0.36</td><td>0.48</td><td>-172.22</td><td>0.91</td><td>0.07</td><td>0.84</td><td>1.085</td><td>0</td><td></td><td>Level 2</td><td></td></th<>	200.00	200.00	200.00	200.00	0.36	0.48	-172.22	0.91	0.07	0.84	1.085	0		Level 2	
3600 3699 3699 3699 3699 10 120 10.08 2.33 0.08 2.21 127 102 0 Lew12 4600 3699 9999 124 138 10.513 2.44 -0.18 2.20 0.33 0 Lew11 6000 5698 5698 5698 5698 177 152 122.2 0.42 3.30 080 0 Lew11 8000 5698 5698 5698 5698 177 152 126.2 0.32 4.04 0.05 0.80 Lew11 8000 5698 6698 1.92 1.20 1.80 3.02 0.12 4.04 0.07 0 Lew11 8000 76980 7698 2.92 2.42 1.80 0.12 1.50 1.57 1.51 1.64 0.0 1.64 0.0 1.64 0.0 1.64 1.69 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64	250.00	250.00	250.00	250.00	0.54	0.66	178.64	1.36	0.16	1.20	1.137	0		Level 2	
40.0 99.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 49.99 1.22 1.03 2.20 0.21 2.27 0.27 <td< td=""><td>300.00</td><td>299.99</td><td>299.99</td><td>299.99</td><td>0.71</td><td>0.84</td><td>164.55</td><td>1.78</td><td>0.23</td><td>1.56</td><td>1.145</td><td>0</td><td></td><td>Level 2</td><td></td></td<>	300.00	299.99	299.99	299.99	0.71	0.84	164.55	1.78	0.23	1.56	1.145	0		Level 2	
440.00 440.00 440.00 440.00 440.00 1.24 1.38 001.33 2.44 0.16 2.07 0.375 0 Lewel 1 500.00 400.00 500.08 500.08 500.08 1.00 1.17 1.12 122.22 3.27 0.42 3.38 0.800 0 Lewel 1 600.00 600.00 600.00 600.00 600.00 600.00 1.00 1.00 Lewel 1 Lewel 1 700.00 700.00 700.00 700.00 700.00 700.00 700.00 2.00 2.00 1.00 4.00 0.00 Lewel 1 800.00 700.00 700.00 700.00 700.00 700.00 1.00 1.00 1.00 Lewel 1 Lewel 1 900.00 <td>350.00</td> <td>349.99</td> <td>349.99</td> <td>349.99</td> <td>0.89</td> <td>1.02</td> <td>142.06</td> <td>2.13</td> <td>0.22</td> <td>1.91</td> <td>1.116</td> <td>0</td> <td></td> <td>Level 2</td> <td></td>	350.00	349.99	349.99	349.99	0.89	1.02	142.06	2.13	0.22	1.91	1.116	0		Level 2	
50.00 49.99 49.99 49.99 49.99 49.90 <th< td=""><td>400.00</td><td>399.99</td><td>399.99</td><td>399.99</td><td>1.07</td><td>1.20</td><td>110.93</td><td>2.33</td><td>0.06</td><td>2.27</td><td>1.027</td><td>0</td><td></td><td>Level 2</td><td></td></th<>	400.00	399.99	399.99	399.99	1.07	1.20	110.93	2.33	0.06	2.27	1.027	0		Level 2	
5000 54998 54988 54988 54988 177 192 1222 327 4.42 360 0800 Level 1 0000 66998 69985 69985 212 2.23 327 4.42 360 0870 0 7000 74993 74939 2.03 2.44 4.92 0.52 4.33 110 0 8000 66985 69985 69985 2.93 2.46 5.95 1.93 4.77 1.316 0 80000 69885 69885 69885 2.83 1.967 7.89 2.79 6.10 1.84 0 10000 09865 99865 3.10 3.37 1.1615 1.207 6.25 6.82 2.05 1.81 6.82 2.066 0 100000 1.0425 1.44935 3.14 3.35 172.25 2.50 1.32 0.61 3.52 0 0 100000 1.492.3 1.4942 1.493	450.00	449.99	449.99	449.99	1.24	1.38			-0.18			0		Level 1	
60.00 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 69.98 21.2 22.8 10.98.2 0.92 4.94 0.97 0.98 1.98 0 1.88 0.92 4.94 1.98 0 1.88 0 80.00 74.98 74.903 74.903 2.47 2.63 169.67 7.89 2.73 5.10 15.6 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 1.88 0 0 0 1.88 0 0 0 <td>500.00</td> <td>499.99</td> <td>499.99</td> <td>499.99</td> <td>1.42</td> <td>1.56</td> <td>109.39</td> <td>2.60</td> <td>-0.37</td> <td>2.97</td> <td>0.875</td> <td>0</td> <td></td> <td>Level 1</td> <td></td>	500.00	499.99	499.99	499.99	1.42	1.56	109.39	2.60	-0.37	2.97	0.875	0		Level 1	
660.00 640.97 640.97 640.97 640.97 1.24 2.40 136.2 3.92 0.12 4.40 17070 0 Lewel 1 700.00 769.00 749.03 <td>550.00</td> <td>549.98</td> <td>549.98</td> <td>549.98</td> <td>1.59</td> <td>1.74</td> <td>117.39</td> <td>2.86</td> <td>-0.47</td> <td>3.33</td> <td>0.860</td> <td>0</td> <td></td> <td>Level 1</td> <td></td>	550.00	549.98	549.98	549.98	1.59	1.74	117.39	2.86	-0.47	3.33	0.860	0		Level 1	
TOD00 BBB 5 BBB 5 2.12 2.28 1454.4 4.92 0.52 4.37 1.181 0 Lewel 3 TOD00 TAB 90	600.00	599.98	599.98	599.98	1.77	1.92	126.25	3.27	-0.42	3.68	0.887	0		Level 1	
79.00 74.93 74.93 74.93 2.40 14.60 6.25 1.50 4.77 1.318 0 Lewel3 800.00 799.90 799.90 2.47 2.63 150.7 7.89 2.79 5.10 1.846 0 900.00 894.86 899.80 2.83 2.99 161.51 112.07 6.25 5.22 2.075 0 1000.00 999.65 999.65 3.943 3.35 170.90 174.00 10.87 6.52 2.657 0.0 11000.00 1049.65 1.049.65 1.049.65 3.36 3.73 7.22 2.050 1.316 6.82 2.978 0 11000.00 1.049.25 1.049.25 1.149.35 3.72 3.89 16.80 2.877 19.17 7.60 3.522 0 11.900.00 1.049.25 1.282.82 1.282.4 4.25 4.42 4.58 8.66 3.874 0 1.300.00 1.497 1.346.2 1.497 3.997 2.308 8.374 0 0 0.00 3.997 <t< td=""><td>650.00</td><td>649.97</td><td>649.97</td><td>649.97</td><td>1.94</td><td>2.10</td><td>136.82</td><td>3.92</td><td>-0.12</td><td>4.04</td><td>0.970</td><td>0</td><td></td><td>Level 1</td><td></td></t<>	650.00	649.97	649.97	649.97	1.94	2.10	136.82	3.92	-0.12	4.04	0.970	0		Level 1	
800.00 799.90 799.90 247 243 199.47 7.89 2.79 5.10 1.546 0 800.00 899.85 948.85 248.85 2.66 2.81 122.22 9.83 4.37 5.62 2.675 0 950.00 999.80 998.80 988.80 598.80 2.83 2.89 165.15 14.59 8.42 6.12 2.33.4 0 1000.00 999.65 996.65 996.65 3.36 3.53 173.25 2.050 13.61 6.88 2.978 0 1,100.00 1.099.44 1.049.45 3.44 3.71 174.40 2.275 16.51 7.76 3.22 0 1,200.00 1.499.25 1.198.28 3.99 4.07 15.285 2.92.8 2.13.77 7.68 3.577 0 1,200.00 1.499.25 1.248.44 4.88 6.68 3.877 0 3.39 1.30.60 3.397 1.44 1.34.54 4.48 4.58 4.59 4.77 8.22 2.868 9.33.4.074 0 1.400.00	700.00	699.95	699.95	699.95	2.12	2.28	146.54	4.92	0.52	4.39	1.119	0		Level 2	
9408.5 9408.5 9408.5 9408.5 268 2.81 12.22 9.83 4.37 5.85 5.82 0.00 900.0 948.73 949.73 3.01 3.17 168.15 14.59 8.42 6.17 2.384 0 1,000.0 1996.65 1149.25 3.72 3.89 168.09 2.68.77 18.17 7.68 3.670 0 1,200.00 1.490.20 1.190.20 1.190.28 1.190.28 1.190.28 4.471 4.458 9.68.0 3.577 2.878 9.00 3.977 0 1,200.00 1.396.77 1.396.77 1.396.77 1.396.77 1.396.77 3.98 4.30 3.39 1.074 0 1,400.00 1.499.14 1.449.1	750.00	749.93	749.93	749.93	2.30	2.46	154.60	6.25	1.50	4.75	1.316	0		Level 3	
989.80 989.80 989.80 2.33 2.99 165.15 11.07 6.25 6.512 2.075 0 1500.00 999.65 999.65 999.65 3.19 3.35 170.90 174.40 10.077 6.55 2.665 0 1,000.00 1.094.55 1.149.55 1.349.55 3.36 3.53 173.25 2.050 13.61 6.88 2.978 0 1,150.00 1.148.35 1.149.35 3.149 3.54 3.71 1.82.85 2.282 1.191.7 7.60 3.522 0 1,200.00 1.196.28 1.199.28 1.199.28 3.90 4.07 152.25 2.282 2.132 7.96 3.679 0 1,200.00 1.199.28 1.298.24 4.24 4.41 115.22 3.354 2.88 8.66 3.874 0 1,300.00 1.299.20 1.286.26 1.294.24 4.89 4.66 3.877 2.868 9.33 4.074 0 1,400.00 1.594.39 1.347.55 4.424 4.58 0.668 1.033 4.5	800.00	799.90	799.90	799.90	2.47	2.63	159.67	7.89	2.79	5.10	1.546	0			
949.73 949.73 949.73 949.73 949.73 949.73 949.73 949.73 949.73 949.75 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.65 949.73 940.73 94.73 940.73 94.73 940.73 940.73 94.73	850.00	849.85	849.85	849.85	2.65	2.81	162.22	9.83	4.37	5.46	1.800	0			
1,000.0 999.65 999.65 3.19 3.35 170.00 17.40 10.87 6.53 2.665 0 1,000.0 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,049.55 1,149.35 1,149.35 1,149.35 1,149.35 1,149.35 1,149.35 1,149.35 1,149.35 1,200.00 1,209.24 1,298.24 1,298.24 4.28 1,31.52 3,23 2,33 3,51 3,77 0 3,577 0 3,577 0 3,577 0 3,577 0 3,53 1,77 0 3,577 0 1,3776 0 1,477 0 1,477 0 3,577 28,68 9,33 4,74 0 1,470.00 1,499.14 1,445.44 4,76 4,52 1,217 3,60 3,33 1,070 0 3,977 0 0 1,470.00 1,499.14 1,445.44 1,445.4 4,42 1,445.4 1,445.4 4,42 1,445.4 1,427 3,45.9 0 0	900.00	899.80	899.80	899.80	2.83	2.99	165.15	12.07	6.25	5.82	2.075	0			
1.050.00 1.049.55 1.049.55 1.049.55 1.049.55 1.049.55 1.049.55 1.049.44 1.099.44 3.094 3.74 3.71 174.40 2.375 16.51 7.24 3.280 0 1.150.00 1.149.35 1.149.35 1.149.35 1.149.28 1.199.28 3.90 4.07 152.85 29.28 21.32 7.96 3.679 0 1.200.00 1.249.21 1.248.81 1.248.81 4.24 138.52 31.30 2.306 8.31 3.77 0 1.300.00 1.299.26 1.298.24 4.25 4.41 115.52 33.54 2.48 8.66 3.874 0 1.300.00 1.399.17 1.396.87 1.398.82 4.59 4.59 4.277 3.802 2.86 9.33 4.07 0 1.400.00 1.399.17 1.396.87 1.398.82 4.59 4.52 4.277 3.802 2.86 9.33 4.07 0 1.400.00 1.399.17 1.396.87 1.398.82 4.56 1.377 5.66 1.033 4.59 0 1	950.00	949.73	949.73	949.73	3.01	3.17	168.15	14.59	8.42	6.17	2.364	0			
110000 1099.44 1099.44 1099.44 3.54 3.71 174.40 23.75 16.51 7.24 3.280 0 1150.00 1.149.35 1.149.35 3.72 3.89 168.09 28.77 19.17 7.60 3.522 0 1.2000 1.2492.3 1.248.81 1.248.81 4.08 4.24 138.52 31.39 23.08 8.31 3.77 0 1.300.00 1.290.20 1.298.24 1.288.81 4.42 4.88 98.08 3.77 20.78 8.31 3.77 0 1.300.00 1.399.47 1.396.97 1.398.82 4.45 4.46 4.27 38.02 28.68 9.33 4.074 0 1.400.00 1.499.14 1.496.43 1.494.81 4.452 4.469 4.27 38.02 28.68 9.33 4.074 0 1.400.00 1.499.14 1.496.43 1.494.81 4.452 5.09 15.13 43.90 33.90 10.00 4.331 0 1.400.00 1.499.14 1.496.43 1.694.71 5.44 <	1,000.00	999.65	999.65	999.65	3.19	3.35	170.90	17.40	10.87	6.53	2.665	0			
1.160.00 1.149.35 1.149.35 3.72 3.89 168.09 2.6.77 19.17 7.60 3.622 0 1.200.00 1.199.28 1.199.28 1.199.28 1.199.28 1.199.28 2.132 7.96 3.679 0 1.200.00 1.299.20 1.298.28 1.248.24 4.24 4.85 98.80 3.577 2.78 9.00 3.977 0 1.300.00 1.299.20 1.298.28 1.445.94 4.42 4.88 96.80 35.77 2.78 9.00 3.977 0 1.400.00 1.499.17 1.346.83 1.444.54 4.42 4.88 96.80 35.77 2.68 3.3.4074 0 1.400.00 1.499.14 1.445.24 1.445.34 4.42 4.52 1.245 40.89 31.23 9.67 4.20 0 1.500.00 1.549.09 1.544.54 1.543.17 5.09 5.26 5.43 1.112 50.20 39.55 10.66 4.710 0 1.500.00 1.599.00 1.583.57 1.592.34 5.26 5.43 1.1	1,050.00	1,049.55	1,049.55	1,049.55	3.36	3.53	173.25	20.50	13.61	6.88	2.978	0			
1.200.0 1.190.28 1.190.28 1.190.28 1.190.28 1.190.28 1.190.28 1.240.23 1.248.81 1.248.81 1.248.81 1.248.81 1.248.81 1.248.81 1.248.81 1.248.81 1.248.81 1.248.21 1.348.81 1.248.21 1.348.81 1.248.21 1.249.21 1.248.21	1,100.00	1,099.44	1,099.44	1,099.44	3.54	3.71	174.40	23.75	16.51	7.24	3.280	0			
1,240.23 1,248.81 1,248.81 4.08 4.24 136.52 31.39 23.08 8.31 3.778 0 1,300.00 1,299.20 1,298.24 4.25 4.41 115.52 33.54 24.68 8.66 3.874 0 1,350.00 1,399.17 1,396.97 1,396.82 4.59 4.57 66.00 3.577 26.78 9.00 3.977 0 1,460.00 1,499.17 1,446.24 1,445.54 4.442 4.58 66.00 3.577 26.78 9.00 3.977 0 1,500.00 1,499.17 1,446.24 1,445.54 4.441 4.92 2.08 4.089 3.123 9.67 4.230 0 1,500.00 1,594.90 1,544.54 1,543.71 5.09 5.26 7.47 53.54 42.25 10.99 4.53 0 1,600.00 1,599.00 1,583.57 1,592.34 5.26 7.47 53.54 42.25 10.99 4.53 0 1,700.00 1,896.84 1,681.44 188.90 5.69 7.45 5.55 1.99	1,150.00	1,149.35	1,149.35	1,149.35	3.72	3.89	168.09	26.77	19.17	7.60	3.522	0			
1,200.00 1,299.20 1,298.26 1,298.24 4,25 4,41 115.52 33.54 24.88 8.66 3.874 0 1,300.00 1,349.17 1,347.64 1,347.64 1,347.64 1,347.64 1,347.64 4.59 4.75 42.77 38.02 28.68 9.33 4.074 0 1,400.00 1,499.17 1,446.24 1,445.54 4.76 4.22 5.09 15.13 43.90 33.90 10.00 4.391 0 1,500.00 1,549.09 1,544.54 1,445.54 4.76 5.26 17.69 46.99 36.66 10.33 4.549 0 1,650.00 1,548.90 1,545.54 1,640.79 5.43 5.60 5.77 5.37 65.97 10.99 4.873 0 1,700.00 1,688.64 1,681.46 1,889.45 5.60 5.77 5.37 65.97 11.86 1.36 5.361 0 1,800.00 1,779.55 1,778.11 1,784.97 5.44 6.12 3.37 65.97 12.28 5.01 0 1.486 1.995	1,200.00	1,199.28	1,199.28	1,199.28	3.90	4.07	152.85	29.28	21.32	7.96	3.679	0			
1,360.00 1,349.18 1,347.64 1,347.58 4.42 4.58 96.80 35.77 26.78 9.00 3.977 0 1,400.00 1,399.17 1,396.97 1,396.82 4.59 4.75 42.77 38.02 28.68 9.33 4.074 0 1,400.00 1,499.14 1,445.24 1,445.45 4.446.24 1,446.45 1,446.24 1,446.45 1,446.42 1,446.45 1,446.42 1,446.45 1,446.42 1,446.45 1,446.42 1,446.45 1,446.45 1,446.45 1,446.45 1,446.45 1,446.45 1,446.47 1,446.47 1,446.47 1,446.47 1,446.47 1,447.47 1,395.47 1,592.50 3.390 10.00 4.391 0 1,660.00 1,599.00 1,593.57 1,592.34 5.26 5.43 11.12 50.20 3.955 10.66 4.710 0 1,660.00 1,698.64 1,681.45 1,640.75 5.56 7.42 3.56 11.31 5.036 0 1,700.00 1,698.64 1,687.55 5.697 45.65 11.31 5.361 0	1,250.00	1,249.23	1,248.81	1,248.81	4.08	4.24	138.52	31.39	23.08	8.31	3.778	0			
1,400.00 1,396.97 1,396.87 1,396.87 1,396.87 4,59 4,75 4,277 38.02 28.68 9.33 4.074 0 1,400.00 1,449.17 1,446.24 1,445.94 4,76 4.92 1,23 40.89 31.23 9.67 4.230 0 1,500.00 1,549.09 1,544.54 1,543.71 5.09 5.26 17.69 46.99 38.66 10.33 4.549 0 1,600.00 1,593.00 1,563.57 1,592.34 5.26 5.43 11.12 50.20 39.55 10.66 4.710 0 1,600.00 1,648.85 1,642.55 1,640.79 5.43 5.60 7.77 5.57 5.65 1.15 5.06 0 1,700.00 1,789.44 1,740.32 1,737.12 5.77 5.95 4.13 60.46 48.82 11.64 5.195 0 1,800.00 1,897.45 1,837.85 1,825.99 6.11 6.29 2.88 677.15 5.527 12.28 5.501 0 1,900.00 1,996.82 1,866.53	1,300.00	1,299.20	1,298.26	1,298.24	4.25	4.41	115.52	33.54	24.88	8.66	3.874	0			
1.450.00 1.449.17 1.446.24 1.445.94 4.76 4.92 12.35 40.89 31.23 9.67 4.230 0 1.500.00 1.549.90 1.544.54 1.543.71 5.09 5.26 17.69 46.99 36.66 10.33 45.49 0 1.650.00 1.549.00 1.593.57 15.82.34 5.26 5.43 11.12 50.20 39.55 10.66 47.10 0 1.650.00 1.684.85 1.640.79 5.43 5.60 7.47 53.54 42.55 10.99 4.873 0 1.700.00 1.688.64 1.691.45 1.689.05 5.60 5.77 5.37 65.97 45.65 11.31 5.036 0 1.800.00 1.778.34 1.740.32 1.771.12 5.77 5.95 4.13 60.46 48.82 11.64 5.195 0 1.800.00 1.878.43 1.837.86 1.832.59 6.11 6.29 2.86 67.55 52.27 12.28 5.51 0 1.800.00 1.946.55 1.935.15 1.927.11 6.46	1,350.00	1,349.18	1,347.64	1,347.58	4.42	4.58	96.80	35.77	26.78	9.00	3.977	0			
1,500.00 1,499.14 1,499.43 1,494.91 4.92 5.09 15.13 43.90 33.90 10.00 4.391 0 1,550.00 1,599.00 1,593.57 1,592.34 5.26 5.43 11.12 50.20 39.55 10.66 4.710 0 1,600.00 1,698.64 1,684.55 1,640.79 5.43 5.60 7.47 5.534 42.55 10.69 4.873 0 1,700.00 1,688.64 1,684.65 1,640.79 5.43 5.60 5.77 5.537 5.697 45.65 11.31 5.036 0 1,750.00 1,748.34 1,740.32 1,737.12 5.77 5.95 4.13 60.46 48.82 11.64 5.195 0 1,800.00 1,847.45 1,837.85 1,832.59 6.11 6.29 2.88 67.55 55.27 12.28 5.601 0 1,900.00 1,846.53 1,835.5 1,827.99 6.63 6.82 2.15 78.32 65.08 13.23 5.918 0 1,900.00 1,946.55 1,95.72	1,400.00	1,399.17	1,396.97	1,396.82	4.59	4.75	42.77	38.02	28.68	9.33	4.074	0			
1,550.001,544.541,543.715.095.2617.6946.9936.6610.334.54901,600.001,599.001,593.571,592.345.265.4311.1250.2039.5510.664.71001,680.001,684.851,642.551,640.795.435.607.4753.5442.5510.994.87301,700.001,684.841,691.461.689.055.605.775.3765.9745.6511.315.03601,750.001,743.341,740.321.737.125.775.954.1360.464.88211.645.35101,800.001,797.951,789.111,784.975.946.123.3763.9952.0311.965.35101,800.001.896.821.836.531.879.986.296.472.5671.1458.5412.285.50101,900.001.986.821.836.531.879.986.622.1578.3265.0813.235.91802,000.001.995.121.937.716.636.622.1578.3265.0813.235.91802,000.001.995.121.937.721.973.986.636.822.1578.3265.0813.235.91802,000.002.044.022.032.222.02.576.807.301.9981.9068.3513.556.04402,150.002.141.242.129.077.157.36<	1,450.00	1,449.17	1,446.24	1,445.94	4.76	4.92	12.35	40.89	31.23	9.67	4.230	0			
1,600.001,593.571,592.345.265.4311.1250.2039.5510.664.71001,650.001,648.851,642.551,40.795.435.607.4753.5442.5510.994.87301,700.001,698.641,691.461,680.055.605.775.375.69745.6511.315.03601,700.001,797.951,781.111,784.975.946.123.3763.9952.0311.965.35101,800.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.50101,900.001,986.821,886.531,879.986.296.472.5671.1458.5412.605.64601,900.001,945.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.022,042.022,020.276.807.181.83854771.6113.866.14702,000.002,092.732,080.682,066.887.181.83854777.16113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,485.332,178.402,159.567.337.551.5292.4077.9214.486.37902,200.002,245.022,228.302,201.79	1,500.00	1,499.14	1,495.43	1,494.91	4.92	5.09	15.13	43.90	33.90	10.00	4.391	0			
1,650.001,648.851,642.551,640.795.435.607.4753.5442.5510.994.87301,700.001,748.341,740.321,737.125.775.3756.9745.6511.315.03601,750.001,748.341,740.321,737.125.775.954.1360.4648.8211.645.19501,800.001,979.951,789.111,784.975.946.123.3763.9952.0311.965.35101,800.001,847.451,837.651,832.656.116.292.8867.55552.712.285.6101,900.001,866.631,837.551,927.116.466.652.3374.7361.8112.925.78502,000.001,961.221,963.721,973.986.636.822.1578.3265.0813.235.91802,000.002,042.022,022.222,020.576.807.001.9981.9068.3513.556.04402,100.002,040.272,080.686.987.181.8385.4771.6113.866.16702,100.002,141.242,129.077.517.361.6869.0374.8614.176.8402,200.002,141.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.51	1,550.00	1,549.09	1,544.54	1,543.71	5.09	5.26	17.69	46.99	36.66	10.33	4.549	0			
1,700.001,698.641,691.461,689.055.605.775.3756.9745.6511.315.03601,750.001,748.341,740.321,737.125.775.954.1360.4648.8211.645.19501,800.001,797.951,789.111,784.975.946.123.3763.9952.0311.965.35101,850.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.64601,900.001,966.821,886.531,927.116.466.652.3374.7361.8112.295.75502,000.001,995.121,937.251,973.986.636.822.1578.3265.0813.235.91802,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.255.04402,000.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,185.332,216.797.517.741.3494.9680.1614.806.41702,200.002,228.412,278.302,254.067.697.931.1696.6681.541.5116.39602,300.002,328.272,328.30 <td>1,600.00</td> <td>1,599.00</td> <td>1,593.57</td> <td>1,592.34</td> <td>5.26</td> <td>5.43</td> <td>11.12</td> <td>50.20</td> <td>39.55</td> <td>10.66</td> <td>4.710</td> <td>0</td> <td></td> <td></td> <td></td>	1,600.00	1,599.00	1,593.57	1,592.34	5.26	5.43	11.12	50.20	39.55	10.66	4.710	0			
1,750.001,748.341,740.321,737.125.775.954.1360.4648.8211.645.19501,800.001,797.951,789.111,784.975.946.123.3763.9952.0311.965.35101,800.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.0101,900.001,986.821,886.531,879.986.296.472.5671.1458.5412.605.64601,950.001,946.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.235.91802,000.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,200.002,141.242,129.072,112.887.157.361.5292.4077.921.4866.37902,200.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,300.002,382.972,384.648.058.310.7497.4481.7115.746.19202,300.002,380.252,378.29 <td>1,650.00</td> <td>1,648.85</td> <td>1,642.55</td> <td>1,640.79</td> <td>5.43</td> <td>5.60</td> <td>7.47</td> <td>53.54</td> <td>42.55</td> <td>10.99</td> <td>4.873</td> <td>0</td> <td></td> <td></td> <td></td>	1,650.00	1,648.85	1,642.55	1,640.79	5.43	5.60	7.47	53.54	42.55	10.99	4.873	0			
1,800.001,797.951,789.111,784.975.946.123.3763.9952.0311.965.35101,850.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.50101,900.001,896.821,886.531,879.986.296.472.5671.1458.5412.605.64601,950.001,946.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.887.181.8385.4771.6113.866.16702,100.002,192.732,080.682,066.886.987.157.361.5892.0477.9214.486.37902,200.002,149.532,178.402,159.667.337.551.5292.4077.9214.486.37902,205.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.00 <t< td=""><td>1,700.00</td><td>1,698.64</td><td>1,691.46</td><td>1,689.05</td><td>5.60</td><td>5.77</td><td>5.37</td><td>56.97</td><td>45.65</td><td>11.31</td><td>5.036</td><td>0</td><td></td><td></td><td></td></t<>	1,700.00	1,698.64	1,691.46	1,689.05	5.60	5.77	5.37	56.97	45.65	11.31	5.036	0			
1,850.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.50101,900.001,896.821,886.531,879.986.296.472.5671.1458.5412.605.64601,950.001,946.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,200.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,285.332,216.797.517.741.3494.9680.1614.806.41702,300.002,329.772,328.302,301.347.878.120.9597.4882.0615.436.31902,300.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,472.442,478.26 <td>1,750.00</td> <td>1,748.34</td> <td>1,740.32</td> <td>1,737.12</td> <td>5.77</td> <td>5.95</td> <td>4.13</td> <td>60.46</td> <td>48.82</td> <td>11.64</td> <td>5.195</td> <td>0</td> <td></td> <td></td> <td></td>	1,750.00	1,748.34	1,740.32	1,737.12	5.77	5.95	4.13	60.46	48.82	11.64	5.195	0			
1,850.001,847.451,837.851,832.596.116.292.8867.5555.2712.285.50101,900.001,896.821,886.531,879.986.296.472.5671.1458.5412.605.64601,950.001,946.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,200.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,285.332,216.797.517.741.3494.9680.1614.806.41702,300.002,329.772,328.302,301.347.878.120.9597.4882.0615.436.31902,300.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,472.442,478.26 <td>1,800.00</td> <td>1,797.95</td> <td>1,789.11</td> <td>1,784.97</td> <td>5.94</td> <td>6.12</td> <td>3.37</td> <td>63.99</td> <td>52.03</td> <td>11.96</td> <td>5.351</td> <td>0</td> <td></td> <td></td> <td></td>	1,800.00	1,797.95	1,789.11	1,784.97	5.94	6.12	3.37	63.99	52.03	11.96	5.351	0			
1,950.001,946.051,935.151,927.116.466.652.3374.7361.8112.925.78502,000.001,995.121,983.721,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,300.002,332.972,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870												0			
2,000.001,995.121,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,825.412,278.302,254.067.697.931.1696.6681.5415.116.39602,300.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,477.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	1,900.00	1,896.82	1,886.53	1,879.98	6.29	6.47	2.56	71.14	58.54	12.60	5.646	0			
2,000.001,995.121,973.986.636.822.1578.3265.0813.235.91802,050.002,044.022,032.222,020.576.807.001.9981.9068.3513.556.04402,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,825.412,278.302,254.067.697.931.1696.6681.5415.116.39602,300.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,477.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	1,950.00	1,946.05	1,935.15	1,927.11	6.46	6.65	2.33	74.73	61.81	12.92	5.785	0			
2,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,350.002,332.972,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	2,000.00	1,995.12	1,983.72	1,973.98	6.63	6.82	2.15	78.32	65.08	13.23	5.918	0			
2,100.002,092.732,080.682,066.886.987.181.8385.4771.6113.866.16702,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,350.002,332.972,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	2,050.00	2,044.02	2,032.22	2,020.57	6.80	7.00	1.99	81.90	68.35	13.55	6.044	0			
2,150.002,141.242,129.072,112.887.157.361.6889.0374.8614.176.28402,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,350.002,332.972,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870												0			
2,200.002,189.532,178.402,159.567.337.551.5292.4077.9214.486.37902,250.002,237.602,228.332,206.797.517.741.3494.9680.1614.806.41702,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,350.002,332.972,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,477.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870															
2,300.002,285.412,278.302,254.067.697.931.1696.6681.5415.116.39602,302.072,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870															
2,350.002,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	2,250.00	2,237.60	2,228.33	2,206.79	7.51	7.74	1.34	94.96	80.16	14.80	6.417	0			
2,350.002,328.302,301.347.878.120.9597.4882.0615.436.31902,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870	2,300.00	2,285.41	2,278.30	2,254.06	7.69	7.93	1.16	96.66	81.54	15.11	6.396	0			
2,400.002,380.252,378.292,348.648.058.310.7497.4481.7115.746.19202,450.002,427.242,428.292,395.938.248.510.5096.5380.4916.056.01502,500.002,473.962,478.262,443.208.428.700.3694.8478.4516.395.7870															
2,450.00 2,473.96 2,478.26 2,432.02 8.24 8.51 0.50 96.53 80.49 16.05 6.015 0 2,500.00 2,473.96 2,478.26 2,443.20 8.42 8.70 0.36 94.84 78.45 16.39 5.787 0															
2,500.00 2,473.96 2,478.26 2,443.20 8.42 8.70 0.36 94.84 78.45 16.39 5.787 0	2,450.00														
2,550.00 2,520.63 2,528.22 2,490.46 8.61 8.90 0.37 93.01 76.24 16.77 5.547 0	2,550.00	2,520.63	2,528.22	2,490.46	8.61	8.90	0.37	93.01	76.24	16.77	5.547	0			

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Page 35



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De urvey Prog	-	OUTRIL DMR2_OWSG		ED - O27F	005H - O	27F 605H	OH - PLAN	3					Offset Site Error:	0.00 us
Refer		DMR2_0WSG		Semi Major	Axis		Dis	tance					Offset Well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	-	
2,600.00	2,567.30	2,578.19	2,537.72	8.80	9.09	0.37	91.18	74.03	17.15	5.317	0			
2,650.00	2,613.97	2,628.16	2,584.99	8.99	9.29	0.37	89.35	71.82	17.54		0			
2,700.00	2,660.64	2,678.12	2,632.25	9.18	9.49	0.37	87.52	69.60	17.92	4.884	0			
2,750.00	2,707.32	2,728.09	2,679.52	9.38	9.69	0.38	85.69	67.38	18.31	4.680	0			
2,800.00	2,753.99	2,778.06	2,726.78	9.57	9.89	0.38	83.86	65.16	18.70	4.484	0			
2,850.00	2,800.66	2,828.02	2,774.04	9.77	10.09	0.38	82.03	62.94	19.09	4.296	0			
2,900.00	2,847.33	2,877.99	2,821.31	9.97	10.29	0.39	80.21	60.72	19.49	4 116	0			
2,950.00	2,894.00	2,927.96	2,821.31	10.17	10.29	0.39	78.38	58.49	19.49		0			
3,000.00	2,940.67	2,927.90	2,000.37	10.17	10.49	0.39	76.55	56.26	20.28		0			
3,050.00	2,987.34	3,027.89	2,963.10	10.57	10.70	0.33	76.33	54.04	20.20		0			
3,100.00	3,034.01	3,077.86	3,010.36	10.77	11.10	0.40	72.89	51.81	21.08		0			
0,100.00	0,001.01	0,011.00	0,010.00			0.10	72.00	01.01			0			
3,150.00	3,080.68	3,127.82	3,057.63	10.97	11.30	0.40	71.06	49.58	21.48		0			
3,200.00	3,127.35	3,177.79	3,104.89	11.17	11.51	0.41	69.23	47.34	21.88	3.163	0			
3,250.00	3,174.02	3,227.75	3,152.16	11.38	11.71	0.41	67.40	45.11	22.29		0			
3,300.00	3,220.69	3,277.72	3,199.42	11.58	11.92	0.42	65.57	42.88	22.69		0			
3,350.00	3,267.36	3,327.69	3,246.69	11.79	12.12	0.42	63.74	40.64	23.10	2.759	0			
3,400.00	3,314.03	3,377.65	3,293.95	11.99	12.33	0.43	61.91	38.41	23.51	2.634	0			
3,450.00	3,360.70	3,427.62	3,341.21	12.20	12.53	0.43	60.08	36.17	23.91		0			
3,500.00	3,407.37	3,477.59	3,388.48	12.41	12.74	0.44	58.25	33.93	24.32		0			
3,550.00	3,454.05	3,527.55	3,435.74	12.62	12.94	0.44	56.42	31.69	24.73		0			
3,600.00	3,500.72	3,577.52	3,483.01	12.82	13.15	0.45	54.59	29.45	25.14		0			
3,650.00	3,547.39	3,627.49	3,530.27	13.03	13.36	0.46	52.76	27.21	25.55		0			
3,700.00	3,594.06	3,677.45	3,577.53	13.24	13.56	0.46	50.93	24.97	25.96		0			
3,750.00	3,640.73	3,727.42	3,624.80	13.45	13.77	0.47	49.10	22.73	26.38		0			
3,800.00	3,687.40	3,777.39	3,672.06	13.66	13.98	0.48	47.27	20.49	26.79		0			
3,850.00	3,734.07	3,827.35	3,719.33	13.87	14.19	0.49	45.45	18.24	27.20	1.671	0			
3,900.00	3,780.74	3,877.32	3,766.59	14.08	14.39	0.50	43.62	16.00	27.62	1.579	0			
3,950.00	3,827.41	3,927.29	3,813.85	14.29	14.60	0.51	41.79	13.76	28.03		0		Level 3	
4,000.00	3,874.08	3,977.25	3,861.12	14.51	14.81	0.52	39.96	11.51	28.44		0		Level 3	
4,050.00	3,920.75	4,027.22	3,908.38	14.72	15.02	0.54	38.13	9.27	28.86	1.321	0		Level 3	
4,100.00	3,967.42	4,077.19	3,955.65	14.93	15.23	0.55	36.30	7.02	29.28		0		Level 2	
4,150.00	4,014.09	4,127.15	4,002.91	15.14	15.44	0.57	34.47	4.78	29.69		0		Level 2	
4,200.00	4,060.76	4,177.12	4,050.18	15.36	15.65	0.59	32.64	2.53	30.11		0		Level 2	
4,250.00	4,107.43	4,227.09	4,097.44	15.57	15.85	0.61	30.81	0.28	30.53		0		Level 2	
4,300.00	4,154.10	4,277.05	4,144.70	15.78	16.06	0.63	28.98	-1.96	30.94		0		Level 1	
4,350.00	4,200.78	4,327.02	4,191.97	16.00	16.27	0.66	27.15	-4.21	31.36	0.866	0		Level 1	
4,400.00	4,247.45	4,376.98	4,239.23	16.21	16.48	0.69	25.32	-6.46	31.78	0.797	0		Level 1	
4,450.00	4,294.12	4,426.95	4,286.50	16.42	16.69	0.72	23.49	-8.71	32.20		0		Level 1	
4,500.00	4,340.79	4,476.92	4,333.76	16.64	16.90	0.76	21.66	-10.96	32.62		0		Level 1	
4,550.00	4,387.46	4,526.88	4,381.02	16.85	17.11	0.81	19.83	-13.21	33.04	0.600	0		Level 1	
4,600.00	4,434.13	4,576.85	4,428.29	17.07	17.32	0.86	18.00	-15.45	33.46		0		Level 1	
4,650.00		4,626.82	4,475.55	17.28	17.53	0.93	16.17	-17.70		0.477	0		Level 1	
4,700.00	4,527.47	4,676.78	4,522.82	17.50	17.74	1.02	14.35	-19.95	34.30		0		Level 1	
4,750.00	4,574.14	4,726.75	4,570.08	17.71	17.95	1.13	12.52	-22.20	34.72		0		Level 1	
4,800.00	4,620.81	4,776.72	4,617.34	17.93	18.16	1.28	10.69	-24.45	35.14		0		Level 1	
4,850.00	4,667.48	4,826.68	4,664.61	18.15	18.37	1.50	8.86	-26.70	35.56	0.249	0		Level 1	
4,900.00	4,714.15	4,876.65	4,711.87	18.36	18.58	1.82	7.03	-28.95	35.98	0.195	0		Level 1	
4,950.00	4,760.82	4,926.62	4,759.14	18.58	18.80	2.38	5.20	-31.19	36.39		0		Level 1	
5,000.00	4,807.49	4,976.58	4,806.40	18.79	19.01	3.53	3.37	-33.43	36.81		0		Level 1	
5,050.00	4,854.16	5,026.55	4,853.67	19.01	19.22	7.42	1.55	-35.66	37.21		0		Level 1	
5,092.03	4,893.40	5,068.55	4,893.40	19.19	19.39	90.24	0.19	-38.36	38.55		0		Level 1	
5,100.00	4,900.83	5,076.52	4,900.93	19.23	19.43	146.69	0.35	-37.87	38.22	0.009	0		Level 1	

10/9/2022 1:09:31PM



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Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

	sign			ED - 027F	605H - O	27F 605H	OH - PLAN	3					Offset Site Error:	0.00 us
Survey Progr Refere		OMR2_OWSG Offse		+MS Semi Major	Axis		Dis	tance					Offset Well Error:	0.00 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
5,150.00	4,947.50	5,126.48	4,948.19	19.45	19.64	175.04	2.13	-36.03	38.16	0.056	0		Level 1	
5,200.00	4,994.18	5,176.45	4,995.46	19.66	19.85	177.44	3.96	-34.60	38.56	0.103	0		Level 1	
5,250.00	5,040.85	5,226.42	5,042.72	19.88	20.06	178.33	5.78	-33.19	38.97	0.148	0		Level 1	
5,300.00	5,087.52	5,276.38	5,089.99	20.10	20.27	178.79	7.61	-31.78	39.39	0.193	0		Level 1	
5,350.00	5,134.19	5,326.35	5,137.25	20.31	20.48	179.07	9.44	-30.37	39.81		0		Level 1	
5,400.00	5,180.86	5,376.32	5,184.51	20.53	20.70	179.26	11.27	-28.96	40.23	0.280	0		Level 1	
5,450.00	5,227.53	5,426.28	5,231.78	20.75	20.91	179.40	13.10	-27.55		0.322	0		Level 1	
5,500.00	5,274.20	5,476.25	5,279.04	20.97	21.12	179.51	14.93	-26.15		0.363	0		Level 1	
5,550.00	5,320.87	5,526.21	5,326.31	21.19	21.33	179.59	16.76	-24.74	41.50		0		Level 1	
5,600.00	5,367.54	5,576.18	5,373.57	21.40	21.54	179.65	18.59	-23.34		0.443	0		Level 1	
5,650.00	5,414.21	5,626.15	5,420.83	21.62	21.75	179.70	20.42	-21.93	42.35	0.482	0		Level 1	
5,700.00	5,460.88	5,676.11	5,468.10	21.84	21.97	179.75	22.25	-20.53		0.520	0		Level 1	
5,750.00	5,507.55	5,726.08	5,515.36	22.06	22.18	179.79	24.08	-19.12	43.20		0		Level 1	
5,800.00	5,554.22	5,776.05	5,562.63	22.28	22.39	179.82	25.90	-17.72	43.62		0		Level 1	
5,850.00	5,600.89	5,826.01	5,609.89	22.49	22.60	179.85	27.73	-16.31		0.630	0		Level 1	
5,900.00	5,647.56	5,875.98	5,657.15	22.71	22.81	179.87	29.56	-14.91	44.47	0.665	0		Level 1	
5,950.00	5,694.23	5,925.95	5,704.42	22.93	23.03	179.89	31.39	-13.51	44.90	0.699	0		Level 1	
6,000.00	5,740.91	5,975.91	5,751.68	23.15	23.24	179.91	33.22	-12.10	45.32	0.733	0		Level 1	
6,050.00	5,787.58	6,025.88	5,798.95	23.37	23.45	179.93	35.05	-10.70		0.766	0		Level 1	
6,100.00	5,834.25	6,075.85	5,846.21	23.59	23.66	179.95	36.88	-9.29		0.799	0		Level 1	
6,150.00	5,880.92	6,125.81	5,893.48	23.81	23.87	179.96	38.71	-7.89	46.60	0.831	0		Level 1	
6,200.00	5,927.59	6,175.78	5,940.74	24.03	24.09	179.97	40.54	-6.49	47.03	0.862	0		Level 1	
6,250.00	5,974.26	6,225.75	5,988.00	24.25	24.30	179.99	42.37	-5.09	47.45	0.893	0		Level 1	
6,300.00	6,021.08	6,275.73	6,035.28	24.46	24.51	180.00	43.78	-4.16	47.94	0.913	0		Level 1	
6,350.00	6,068.20	6,325.72	6,082.57	24.68	24.72	-179.99	44.32	-4.10	48.42	0.915	0		Level 1	
6,400.00	6,115.60	6,375.72	6,129.87	24.89	24.94	-179.98	43.98	-4.90	48.88	0.900	0		Level 1	
6,450.00	6,163.27	6,425.70	6,177.15	25.10	25.15	-179.97	42.77	-6.55	49.32	0.867	0		Level 1	
6,500.00	6,211.20	6,475.44	6,224.21	25.30	25.36	-179.96	40.73	-9.01	49.75	0.819	0		Level 1	
6,550.00	6,259.37	6,524.71	6,271.03	25.51	25.57	-179.95	38.48	-11.67	50.15	0.767	0		Level 1	
6,600.00	6,307.77	6,574.01	6,318.14	25.71	25.77	-179.93	36.22	-14.32	50.54	0.717	0		Level 1	
6,650.00	6,356.38	6,623.36	6,365.54	25.90	25.97	-179.92	33.94	-16.97	50.91	0.667	0		Level 1	
6,700.00	6,405.18	6,672.74	6,413.20	26.10	26.17	-179.90	31.66	-19.61	51.26	0.618	0		Level 1	
6,750.00	6,454.17	6,722.16	6,461.12	26.28	26.37	-179.88	29.36	-22.24	51.60	0.569	0		Level 1	
6,800.00	6,503.33	6,771.62	6,509.27	26.47	26.56	-179.86	27.05	-24.86	51.91	0.521	0		Level 1	
6,850.00	6,552.63	6,821.12	6,557.65	26.65	26.75	-179.83	24.74	-27.47	52.21	0.474	0		Level 1	
6,900.00	6,602.08	6,870.66	6,606.25	26.84	26.94	-179.80	22.42	-30.07	52.49	0.427	0		Level 1	
6,950.00	6,651.64	6,920.24	6,655.04	27.01	27.13	-179.77	20.08	-32.66	52 74	0.381	0		Level 1	
7,000.00	6,701.32	6,969.85	6,704.01	27.19	27.31	-179.72	17.74	-35.24		0.335	0		Level 1	
7,050.00	6,751.08	7,019.51	6,753.16	27.36	27.49	-179.67	15.40	-37.80		0.289	0		Level 1	
7,100.00	6,800.93	7,069.21	6,802.46	27.53	27.66	-179.59	13.05	-40.35		0.244	0		Level 1	
7,150.00	6,850.83	7,118.95	6,851.90	27.69	27.84	-179.49	10.69	-42.89		0.200	0		Level 1	
7,200.00	6.900.78	7,168.73	6,901.47	27.86	28.01	-179.33	8.33	-45.41	53 74	0.155	0		Level 1	
7,250.00	6,950.76	7,218.55	6,951.15	28.01	28.18	-179.05	5.97	-47.90	53.87		0		Level 1	
7,300.00	7,000.76	7,268.41	7,000.93	28.17	28.34	-178.40	3.60	-50.38		0.067	0		Level 1	
7,350.00	7,050.76	7,318.32	7,050.81	28.32	28.50	-77.97	1.63	-52.63		0.030	0		Level 1	
7,400.00	7,100.76	7,368.29	7,100.76	28.47	28.66	-70.59	0.54	-54.00		0.010	0		Level 1	
7,450.00	7,150.76	7,418.29	7,150.76	28.62	28.82	-61.08	0.29	-54.64		0.005	0 0		Level 1	
7,500.00	7,200.76	7,468.29	7,200.76	28.77	28.97	-61.08	0.29	-54.95		0.005			Level 1	
7,550.00	7,250.76	7,518.29	7,250.76	28.93	29.12	-61.08	0.29	-55.25		0.005	0		Level 1	
7,600.00	7,300.76	7,568.29	7,300.76	29.08	29.28	-61.08	0.29	-55.56		0.005	0		Level 1	
7,650.00	7,350.76	7,618.29	7,350.76	29.23	29.43	-61.08	0.29	-55.87	56.16	0.005	0		Level 1	
7,700.00	7,400.76	7,668.29	7,400.76	29.39	29.59	-61.08	0.29	-56.17	56.46	0.005	0		Level 1	

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Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	-			ED - 027F	605H - O	27F 605H	OH - PLAN	3					Offset Site Error:	0.00 us
urvey Prog Refer	•	OMR2_OWSG Offse		MS Semi Major	Axis		Dis	tance					Offset Well Error:	0.00 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision		
7,750.00	7,450.76	7,718.29	7,450.76	29.54	29.74	-61.08	0.29	-56.48	56.77	0.005	0		Level 1	
7,800.00	7,500.76	7,768.29	7,500.76	29.69	29.90	-61.08	0.29	-56.79	57.08	0.005	0		Level 1	
7,850.00	7,550.76	7,818.29	7,550.76	29.85	30.05	-61.08	0.29	-57.10	57.39	0.005	0		Level 1	
7,900.00	7,600.76	7,868.29	7,600.76	30.00	30.21	-61.08	0.29	-57.41	57.70	0.005	0		Level 1	
7,950.00	7,650.76	7,918.29	7,650.76	30.16	30.36	-61.08	0.29	-57.72	58.01	0.005	0		Level 1	
8,000.00	7,700.76	7,968.29	7,700.76	30.31	30.52	-61.08	0.29	-58.03	58.32	0.005	0		Level 1	
8,050.00	7,750.76	8,018.29	7,750.76	30.47	30.67	-61.08	0.29	-58.34	58.63	0.005	0		Level 1	
8,100.00	7,800.76	8,068.29	7,800.76	30.62	30.83	-61.08	0.29	-58.65	58.94	0.005	0		Level 1	
8,150.00	7,850.76	8,118.29	7,850.76	30.78	30.99	-61.08	0.29	-58.96	59.25	0.005	0		Level 1	
8,200.00	7,900.76	8,168.29	7,900.76	30.93	31.14	-61.08	0.29	-59.27	59.56	0.005	0		Level 1	
8,250.00	7,950.76	8,218.29	7,950.76	31.09	31.30	-61.08	0.29	-59.59	59.88	0.005	0		Level 1	
8,300.00	8,000.76	8,268.29	8,000.76	31.25	31.46	-61.08	0.29	-59.90	60.19	0.005	0		Level 1	
8,350.00	8,050.76	8,318.29	8,050.76	31.40	31.62	-61.08	0.29	-60.21		0.005	0		Level 1	
8,400.00	8,100.76	8,368.29	8,100.76	31.56	31.77	-61.08	0.29	-60.53		0.005	0		Level 1	
8,450.00	8,150.76	8,418.29	8,150.76	31.72	31.93	-61.08	0.29	-60.84	61.13		0		Level 1	
8,500.00	8,200.76	8,468.29	8,200.76	31.88	32.09	-61.08	0.29	-61.16		0.005	0		Level 1	
8,550.00	8,250.76	8,518.29	8,250.76	32.03	32.25	-61.08	0.29	-61.47	61 77	0.005	0		Level 1	
8,600.00	8,300.76	8,568.29	8,230.76	32.03	32.25	-61.08	0.29	-61.79		0.005	0		Level 1	
8,650.00		8,618.29	8,350.76	32.19		-61.08	0.29			0.005	0		Level 1	
	8,350.76	8,668.29			32.57		0.29	-62.11		0.005	0			
8,700.00 8,750.00	8,400.76 8,450.76	8,718.29	8,400.76 8,450.76	32.51 32.67	32.73 32.89	-61.08 -61.08	0.29	-62.42 -62.74		0.005	0		Level 1 Level 1	
8,800.00	8,500.76	8,768.29	8,500.76	32.83	33.05	-61.08	0.29	-63.06		0.005	0		Level 1	
8,850.00	8,550.76	8,818.29	8,550.76	32.98	33.21	-61.08	0.29	-63.38	63.67	0.005	0		Level 1	
8,900.00	8,600.76	8,868.29	8,600.76	33.14	33.37	-61.08	0.29	-63.70	63.99	0.005	0		Level 1	
8,950.00	8,650.76	8,918.29	8,650.76	33.30	33.53	-61.08	0.29	-64.02	64.31	0.005	0		Level 1	
9,000.00	8,700.76	8,968.29	8,700.76	33.46	33.69	-61.08	0.29	-64.34	64.63	0.005	0		Level 1	
9,050.00	8,750.76	9,018.29	8,750.76	33.62	33.85	-61.08	0.29	-64.66	64.95	0.004	0		Level 1	
9,100.00	8,800.76	9,068.29	8,800.76	33.78	34.01	-61.08	0.29	-64.98	65.27		0		Level 1	
9,150.00	8,850.76	9,118.29	8,850.76	33.94	34.17	-61.08	0.29	-65.30		0.004	0		Level 1	
9,200.00	8,900.76	9,168.29	8,900.76	34.10	34.33	-61.08	0.29	-65.62	65.91		0		Level 1	
9,250.00	8,950.76	9,218.29	8,950.76	34.26	34.49	-61.08	0.29	-65.94	66.24		0		Level 1	
0 000 00	0 000 70	0 000 00	0.000 70	04.40	04.05	04.00	0.00	00.07	00.50	0.004	0		Level 4	
9,300.00	9,000.76	9,268.29	9,000.76	34.43	34.65	-61.08	0.29	-66.27		0.004	0		Level 1	
9,350.00	9,050.76	9,318.29	9,050.76	34.59	34.81	-61.08	0.29	-66.59	66.88		0		Level 1	
9,400.00	9,100.76	9,368.29	9,100.76	34.75	34.98	-61.08	0.29	-66.91	67.20		0		Level 1	
9,450.00	9,150.76	9,418.29	9,150.76	34.91	35.14	-61.08	0.29	-67.23	67.53		0		Level 1	
9,500.00	9,200.76	9,468.29	9,200.76	35.07	35.30	-61.08	0.29	-67.56	C0.10	0.004	0		Level 1	
9,550.00	9,250.76	9,518.29	9,250.76	35.23	35.46	-61.08	0.29	-67.88	68.17	0.004	0		Level 1	
9,600.00	9,300.76	9,568.29	9,300.76	35.39	35.63	-61.08	0.29	-68.21	68.50	0.004	0		Level 1	
9,650.00	9,350.76	9,618.29	9,350.76	35.56	35.79	-61.08	0.29	-68.53	68.82	0.004	0		Level 1	
9,700.00	9,400.76	9,668.29	9,400.76	35.72	35.95	-61.08	0.29	-68.86	69.15	0.004	0		Level 1	
9,750.00	9,450.76	9,718.29	9,450.76	35.88	36.11	-61.08	0.29	-69.18	69.47	0.004	0		Level 1	
9,800.00	9,500.76	9,768.29	9,500.76	36.04	36.28	-61.08	0.29	-69.51	60 80	0.004	0		Level 1	
9,850.00	9,550.76	9,708.29	9,550.76 9,550.76	36.21	36.44	-61.08	0.29	-69.83	70.12		0		Level 1	
9,900.00	9,600.76	9,868.29	9,600.76	36.37	36.60	-61.08	0.29	-70.16	70.12		0		Level 1	
9,900.00 9,950.00	9,650.76	9,000.29 9,918.29	9,600.76 9,650.76	36.53	36.60	-61.08	0.29	-70.18	70.45		0		Level 1	
10,000.00	9,700.76	9,918.29	9,700.76	36.70	36.93	-61.08	0.29	-70.49	70.78		0		Level 1	
10,050.00	9,750.76	10,018.29	9,750.76	36.86	37.10	-61.08	0.29	-71.14	71.43		0		Level 1	
10,100.00	9,800.76	10,068.29	9,800.76	37.02	37.26	-61.08	0.29	-71.47	71.76		0		Level 1	
10,150.00	9,850.76	10,118.29	9,850.76	37.19	37.42	-61.08	0.29	-71.80	72.09		0		Level 1	
10,200.00	9,900.76	10,168.29	9,900.76	37.35	37.59	-61.08	0.29	-72.12		0.004	0		Level 1	
10,250.00	9,950.76	10,218.29	9,950.76	37.51	37.75	-61.08	0.29	-72.45	72.74	0.004	0		Level 1	
10,300.00	10,000.76	10,268.29	10,000.76	37.68	37.92	-61.08	0.29	-72.78	73.07	0.004	0		Level 1	
,	.,	.,	.,	250				0					-	

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Page 38



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	sign	OUTRI	DER 27 FI	ED - 027F	605H - O	27F 605H	OH - PLAN	3					Offset Site Error:	0.00 usft
Survey Progr		OMR2_OWSG											Offset Well Error:	0.00 usft
Refer		Offs		Semi Major				tance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
10,350.00	10,050.76	10,318.29	10,050.76	37.84	38.08	-61.08	0.29	-73.11	73.40	0.004	0		Level 1	
10,400.00	10,100.76	10,368.29	10,100.76	38.01	38.25	-61.08	0.29	-73.44	73.73	0.004	0		Level 1	
10,450.00	10,150.76	10,418.29	10,150.76	38.17	38.41	-61.08	0.29	-73.77	74.06	0.004	0		Level 1	
10,500.00	10,200.76	10,468.29	10,200.76	38.34	38.58	-61.08	0.29	-74.10	74.39	0.004	0		Level 1	
10,550.00	10,250.76	10,518.29	10,250.76	38.50	38.74	-61.08	0.29	-74.43	74.72	0.004	0		Level 1	
10,600.00	10,300.76	10,568.29	10,300.76	38.66	38.91	-61.08	0.29	-74.76	75.05	0.004	0		Level 1	
10,650.00	10,350.76	10,618.29	10,350.76	38.83	39.07	-61.08	0.29	-75.09	75.38	0.004	0		Level 1	
10,700.00	10,400.76	10,668.29	10,400.76	38.99	39.24	-61.08	0.29	-75.42	75.71	0.004	0		Level 1	
10,750.00	10,450.76	10,718.29	10,450.76	39.16	39.41	-61.08	0.29	-75.75	76.04	0.004	0		Level 1	
10,800.00	10,500.76	10,768.29	10,500.76	39.33	39.57	-61.08	0.29	-76.08	76.37	0.004	0		Level 1	
10,850.00	10,550.76	10,818.29	10,550.76	39.49	39.74	-61.08	0.29	-76.41	76.71	0.004	0		Level 1	
10,900.00	10,600.76	10,868.29	10,600.76	39.66	39.90	-61.08	0.29	-76.75	77.04	0.004	0		Level 1	
10,950.00	10,650.76	10,918.29	10,650.76	39.82	40.07	-61.08	0.29	-77.08	77.37	0.004	0		Level 1	
11,000.00	10,700.76	10,968.29	10,700.76	39.99	40.24	-61.08	0.29	-77.41	77.70	0.004	0		Level 1	
11,050.00	10,750.76	11,018.29	10,750.76	40.15	40.40	-61.08	0.29	-77.74	78.03	0.004	0		Level 1	
11,100.00	10,800.76	11,068.29	10,800.76	40.32	40.57	-61.08	0.29	-78.07	78.37	0.004	0		Level 1	
11,150.00	10,850.76	11,118.29	10,850.76	40.49	40.74	-61.08	0.29	-78.41	78.70	0.004	0		Level 1	
11,200.00	10,900.76	11,168.29	10,900.76	40.65	40.90	-61.08	0.29	-78.74	79.03	0.004	0		Level 1	
11,250.00	10,950.76	11,218.29	10,950.76	40.82	41.07	-61.08	0.29	-79.07	79.37	0.004	0		Level 1	
11,300.00	11,000.76	11,268.29	11,000.76	40.99	41.24	-61.08	0.29	-79.41	79.70	0.004	0		Level 1	
11,350.00	11,050.76	11,318.29	11,050.76	41.15	41.40	-61.08	0.29	-79.74	80.03	0.004	0		Level 1	
11,400.00	11,100.76	11,368.29	11,100.76	41.32	41.57	-61.08	0.29	-80.08	80.37	0.004	0		Level 1	
11,450.00	11,150.76	11,418.29	11,150.76	41.49	41.74	-61.08	0.29	-80.41	80.70	0.004	0		Level 1	
11,500.00	11,200.76	11,468.29	11,200.76	41.65	41.91	-61.08	0.29	-80.74	81.04	0.004	0		Level 1	
11,550.00	11,250.76	11,518.29	11,250.76	41.82	42.07	-61.08	0.29	-81.08	81.37	0.004	0		Level 1	
11,600.00	11,300.76	11,568.29	11,300.76	41.99	42.24	-61.08	0.29	-81.41	81.71	0.004	0		Level 1	
11,650.00	11,350.76	11,618.29	11,350.76	42.15	42.41	-61.08	0.29	-81.75	82.04	0.004	0		Level 1	
11,700.00	11,400.76	11,668.29	11,400.76	42.32	42.58	-61.08	0.29	-82.08	82.38		0		Level 1	
11,750.00	11,450.76	11,718.29	11,450.76	42.49	42.74	-61.08	0.29	-82.42	82.71	0.004	0		Level 1	
11,800.00	11,500.76	11,768.29	11,500.76	42.66	42.91	-61.08	0.29	-82.76	83.05	0.004	0		Level 1	
11,850.00	11,550.76	11,818.29	11,550.76	42.82	43.08	-61.08	0.29	-83.09	83.38	0.004	0		Level 1	
11,900.00	11,600.76	11,868.29	11,600.76	42.99	43.25	-61.08	0.29	-83.43	83.72	0.003	0		Level 1	
11,950.00	11,650.76	11,918.29	11,650.76	43.16	43.42	-61.08	0.29	-83.76	84.06	0.003	0		Level 1	
12,000.00	11,700.76	11,968.29	11,700.76	43.33	43.58	-61.08	0.29	-84.10	84.39	0.003	0		Level 1, ES, SF	



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Des	sign	OUTRIE	DER 27 FE	ED - 027F	605H - O	27F 605H 3	ST1 - O27F	605H ST1					Offset Site Error:	0.00 usft
Survey Progr Refere		XOMR2_OWS			Avia		Dia						Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Semi Major Reference	Offset	Highside	Between	tance Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	warning	
1,123.00	1,122.40	1,123.00	1,122.39	0.00	3.52	-15.77	0.16	-3.35	3.51	0.047	0		Level 1 , CC, ES, SF	
1,150.00	1,149.35	1,123.00	1,122.39	0.10	3.52	53.58	27.00	23.39	3.62	7.468	0			
1,200.00	1,199.28	1,123.00	1,122.39	0.28	3.52	105.33	77.00	73.21	3.79	20.309	0			
1,250.00	1,249.23	1,123.00	1,122.39	0.45	3.52	111.09	126.99	123.02	3.97	32.005	0			
1,300.00	1,299.20	1,123.00	1,122.39	0.63	3.52	92.62	176.98	172.84	4.14	42.781	0			
1,350.00	1,349.18	1,123.00	1,122.39	0.80	3.52	93.46	226.95	222.64	4.31	52.661	0			
1,400.00	1,399.17	1,123.00	1,122.39	0.97	3.52	51.14	276.92	272.44	4.48	61.879	0			
1,450.00	1,449.17	1,123.00	1,122.39	1.13	3.52	23.77	326.88	322.24	4.64	70.499	0			
1,500.00	1,499.14	1,123.00	1,122.39	1.30	3.52	16.46	376.82	372.03	4.79	78.645	0			
1,550.00	1,549.09	1,123.00	1,122.39	1.47	3.52	12.09	426.74	421.80	4.95	86.278	0			
1,600.00	1,599.00	1,123.00	1,122.39	1.64	3.52	9.05	476.64	471.53	5.11	93.352	0			
1,650.00	1,648.85	1,123.00	1,122.39	1.81	3.52	7.43	526.50	521.23	5.27	99.959	0			
1,700.00	1,698.64	1,123.00	1,122.39	1.98	3.52	6.48	576.32	570.89	5.43	106.186	0			
1,750.00	1,748.34	1,123.00	1,122.39	2.15	3.52	5.88	626.11	620.52	5.59	112.022	0			
1,800.00	1,797.95	1,123.00	1,122.39	2.32	3.52	5.45	675.84	670.10	5.75	117.548	0			
1,850.00	1,847.45	1,123.00	1,122.39	2.49	3.52	5.12	725.53	719.62	5.91	122.707	0			
1,900.00	1,896.82	1,123.00	1,122.39	2.66	3.52	4.86	775.17	769.10	6.07	127.613	0			
1,950.00	1,946.05	1,123.00	1,122.39	2.84	3.52	4.65	824.75	818.51	6.24	132.170	0			
2,000.00	1,995.12	1,123.00	1,122.39	3.01	3.52	4.46	874.26	867.86	6.40	136.536	0			
2,050.00	2,044.02	1,123.00	1,122.39	3.18	3.52	4.29	923.71	917.13	6.58	140.323	0			
2,100.00	2,092.73	1,123.00	1,122.39	3.36	3.52	4.14	973.10	966.35	6.75	144.257	0			
2,150.00	2,141.24	1,123.00	1,122.39	3.53	3.52	4.00	1,022.40	1,015.50	6.90	148.214	0			
2,200.00	2,189.53	1,123.00	1,122.39	3.71	3.52	3.88	1,071.63	1,064.57	7.06	151.786	0			
2,250.00	2,237.60	1,123.00	1,122.39	3.89	3.52	3.76	1,120.78	1,113.56	7.22	155.231	0			
2,300.00	2,285.41	1,123.00	1,122.39	4.07	3.52	3.65	1,169.85	1,162.46	7.38	158.470	0			
2,350.00	2,332.97	1,123.00	1,122.39	4.25	3.52	3.55	1,218.82	1,211.28	7.54	161.576	0			
2,400.00	2,380.25	1,123.00	1,122.39	4.43	3.52	3.46	1,267.70	1,260.00	7.70	164.553	0			
2,450.00	2,427.24	1,123.00	1,122.39	4.62	3.52	3.37	1,316.49	1,308.62	7.87	167.352	0			
2,500.00	2,473.96	1,123.00	1,122.39	4.81	3.52	3.32	1,365.20	1,357.15	8.04	169.752	0			
2,550.00	2,520.63	1,123.00	1,122.39	5.00	3.52	3.32	1,413.96	1,405.72	8.24	171.655	0			
2,600.00	2,567.30	1,123.00	1,122.39	5.19	3.52	3.32	1,462.81	1,454.38	8.43	173.452	0			

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



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

	Offset Well Error: 0.00 usft vrobability Warning Level 1 Level 1 Level 2 Level 2 Level 2 Level 1 Level 2 Level 2 Level 1 Level 2 Level 2 Level 2 Level 2 Level 1 Level 1 Level 1 Level 1 Level 1 Level 2 Level 1 Level 2
Measured Depth (usft) Vertical Depth (usft) Vertical Depth (usft) Reference (usft) Highside (usft) Between (usft) Between (usft) Minimum Separation (usft) Separation (usft) Risked Precent (usft) 0.00	f Collision Level 1 Level 1 Level 2 Level 2 Level 2 Level 2 Level 2 Level 1 Level 1 Level 1 Level 1 Level 1 Level 1 Level 1
Depth (usft) Depth (usft) Depth (usft) Depth (usft) Depth (usft) Depth (usft) Separation (usft) Factor Separation (usft) Factor Separation (usft) Factor Separation (usft) Factor Separation (usft) <	f Collision Level 1 Level 1 Level 2 Level 2 Level 2 Level 2 Level 2 Level 1 Level 1 Level 1 Level 1 Level 1 Level 1 Level 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Level 1 Level 1 Level 2 Level 2 Level 2 Level 2 Level 2 Level 1 Level 1 Level 1 Level 1 Level 1
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Page 41



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

colspacecolspac	offset Des	-			ED - 027F	605H - O	27F 605H	ST1 - PLAN	13					Offset Site Error:	0.00 us
Instant (m)Nome (-			Avio		Die	tanco					Offset Well Error:	0.00 us
BeachOrgentOrgentOrgentCentreBilanceSeparationPactorPactorPactor2.800.02.877.32.877.32.877.28.809.000.370.187.751.755.0002.700.02.707.22.827.22.82.98.809.000.750.80.57.751.80.40.000.751.81.41.80.002.700.02.707.22.80.22.97.28.839.800.308.806.751.83.14.80.002.800.02.80.22.97.202.97.408.970.020.038.026.751.80.0002.800.02.87.732.87.738.81.90.020.77.801.81.01.81.01.81.01.71.00.002.800.03.97.723.97.701.80.11.17.00.000.77.705.401.70.00.007.72.05.402.70.00.70.03.900.03.97.703.97.701.91.00.007.77.05.402.70.02.80.00.00.00.77.05.402.70.00.70.03.900.03.97.703.97.0<					-		Highside			Minimum	Separation	Risked	Probability	Warning	
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2.70022.70032.70042.70049.809.809.800.7309.7011.814.8002.85022.85082.82022.77049.771.000.300.230.241.004.24002.85032.87702.87702.87031.0171.010.400.330.230.241.023.14002.85042.87722.87032.87031.0171.010.400.731.021.023.14003.05002.87723.07180.011.010.407.896.101.012.160.163.05003.77721.0211.031.110.417.807.852.1603.05003.77721.0211.131.110.416.142.102.1003.05003.77721.0211.131.110.416.142.102.1003.05003.77721.0211.131.110.416.142.112.110.13.05013.77721.0211.131.110.416.142.112.110.13.05023.77721.0211.131.110.416.146.142.112.110.13.05013.14033.77721.0211.121.141.140.140.212.102.101.103.05023.1413.17721.0211.141.141.140.140.212.11 <t< td=""><td>2,650.00</td><td>2,613.97</td><td>2,628.16</td><td>2,584.99</td><td>8.99</td><td>9.29</td><td>0.37</td><td>89.35</td><td>71.82</td><td>17.54</td><td>5.096</td><td>0</td><td></td><td></td><td></td></t<>	2,650.00	2,613.97	2,628.16	2,584.99	8.99	9.29	0.37	89.35	71.82	17.54	5.096	0			
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24000240002400024002400600 </td <td>2,750.00</td> <td>2,707.32</td> <td></td> <td>2,679.52</td> <td>9.38</td> <td>9.69</td> <td>0.38</td> <td>85.69</td> <td>67.38</td> <td>18.31</td> <td>4.680</td> <td></td> <td></td> <td></td> <td></td>	2,750.00	2,707.32		2,679.52	9.38	9.69	0.38	85.69	67.38	18.31	4.680				
2,487.30 2,487.30 2,487.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,287.40 2,277.42 2,288.57 10.17 10.10 0.40 7,285 6,264 10.28 3,47.4 0 100.00 10.04 10.07 10.0 0.40 7,28 6,181 2,108 3,468 0 3,180.00 3,07.48 3,017.48 0.047 11.38 1,71 0.44 6,72 4,288 2,228 0.44 0 3,180.00 3,177.78 3,182.16 11.38 1,71 0,44 6,74 4,288 2,228 0.44 0 3,260.00 3,177.78 3,182.16 11.38 1,71 0,44 6,62 3,56 2,84 0.44 2,310 2,48 2,228 0.4 3,400.00 3,477 3,44.84 1,22 1,24 0,44 6,62 3,56 2,42 2,48 2,417 0 3,460.00 3,477 3,412 1,22 1,24 0,44 6,42 3,5															
24800 28840 28840 2884 2884 1988 3844 1988 3847 0 3600 2877 298310 107 107 00 040 7472 640 2088 3610 0 31600 30808 31773 31748 30778 30718 1077 110 040 748 2183 1383 0 31600 30083 31773 31948 1171 115 040 650 4214 2183 183 0 31600 32776 32858 1199 123 042 657 4246 225 3284 0 30000 3440 32776 33854 124 124 044 652 339 2412 251 241 0 30000 3447 3454 124 124 044 652 339 2412 236 0 30000 3677 3767 3884 124 124 </td <td>2,850.00</td> <td>2,800.66</td> <td>2,828.02</td> <td>2,774.04</td> <td>9.77</td> <td>10.09</td> <td>0.38</td> <td>82.03</td> <td>62.94</td> <td>19.09</td> <td>4.296</td> <td>0</td> <td></td> <td></td> <td></td>	2,850.00	2,800.66	2,828.02	2,774.04	9.77	10.09	0.38	82.03	62.94	19.09	4.296	0			
30000 240.0 247.7 247.8 1037 107 0.39 765 62.8 20.28 37.4 0 3.1000 3.077.8 3.077.8 3.078.8 1077 110 0.40 72.89 61.81 21.08 3.488 0 3.1000 3.077.8 3.077.8 1097 11.3 10.74 47.44 21.85 3.188 0 3.2600 3.177.7 3.162.16 11.38 11.7 0.44 67.42 45.81 22.85 2.84 0 3.3600 3.277.7 3.162.16 11.38 1.72 0.42 65.7 42.86 2.228 2.84 0 3.3600 3.477.7 3.476.9 1.318 0.45 61.9 3.41.22 2.84 0 3.41 2.116 0 3.4800 3.477.7 3.497.0 1.34 1.24 0.44 65.2 3.10 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85 <td></td>															
3.0000 2.897.4 3.078 2.093.3 0.07 10.0 0.40 74.72 56.04 2.088 3.08 0 3.1000 3.074 3.177 3.104.48 11.17 11.50 0.40 62.08 3.48 0 3.1000 3.177 3.114.48 11.17 11.51 0.41 67.40 43.84 2.168 3.168 0 3.0000 3.127 3.1174 3.118.4 11.18 11.11 0.42 65.57 42.68 2.269 2.269 0 3.0000 3.3173 3.3173 3.1124 11.18 11.12 0.42 65.57 42.68 2.510 2.510 0 3.0000 3.3173 3.477 3.2141 12.12 12.30 0.44 61.91 3.014 2.512 0 0 3.0000 3.077 3.4778 3.8484 12.41 12.41 0.44 64.59 3.014 2.512 0.50 0 3.0000 3.0774 3.5775 3.681.7 14.64 15.47 0.44 50.7 2.51 2.51 <td></td>															
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3.2000 3.17.2 3.17.7 3.10.2.6 1.17 1.15 0.41 0.70.4 4.74 2.18 1.10.3 0 3.2000 3.202 3.27.7 3.102.6 1.18 1.19 0.42 65.7 4.28 2.20 0.24 0.42 3.2000 3.207.6 3.207.6 3.204.69 1.17 1.12 0.42 65.7 4.28 2.20 0.24 0.44 3.2000 3.207.7 3.47.27 3.34.4 1.20 0.42 6.43 61.01 3.41 2.51 2.68 0 3.400.00 3.367.7 3.47.27 3.34.84 1.20 1.23 0.43 60.08 3.61.7 2.43 2.65 0.43 3.5000 3.454.0 3.384.4 1.22 1.44 5.44 5.42 2.16 1.17 1.33 1.44 1.35 0.44 5.24 2.167 1.21 1.33 1.49 1.47 1.33 1.49 1.47 1.33 1.49 1.47 1.33 1.49 1.47 1.33 1.49 1.47 1.38 1.49	3,100.00	3,034.01	3,077.86	3,010.36	10.77	11.10	0.40	72.89	51.81	21.08	3.458	0			
328000 3,1742 3,1277 3,1942 1,138 1,171 0,41 67.40 4,511 22.00 2.080 0 3,3000 3,287.3 3,3726 3,287.80 1,170 1,212 0,42 63.74 4.064 2.010 2.769 0 3,4000 3,317.30 3,317.61 3,287.80 1,314.11 1,223 0,43 0,610 3,61.7 2,512 0,64 0 3,6000 3,407.70 3,477.61 3,384.81 1,241 1,274 0,44 68.26 3,393 2,432 2,360 0 3,6000 3,607.70 3,877.81 3,483.11 1,262 1,316 0,44 68.26 3,393 2,432 2,161 0 3,6000 3,607.31 3,637.31 1,328 0,46 62.76 2,721 2,58 1,962 0 3,7700 3,672.61 1,638 0,46 62.77 2,61 1,612 0 0 4,771 1,612 0 0 4,771 1,612 0 0 4,771 1,612 0 0															
3.300 3.202 3.277 3.197 3.198 1.192 0.42 6.57 4.28 2.02 0.289 0 3.300.0 3.287.3 3.327.6 3.3460 1.19 1.23 0.42 6.57 4.280 2.102 0.200 0 3.400.0 3.347.3 3.377.6 3.342.7 3.342.1 1.20 1.23 0.43 6191 3.41 2.42 2.65 0 3.400.0 3.447.0 3.342.7 3.348.4 1.20 1.32 0.44 65.4 1.69 2.42 2.45 2.65 0 3.600.0 3.67.7 3.77.75 3.67.80 1.62 1.30 0.44 5.64 2.65 2.65 0 3.600.0 3.67.7 3.77.74 3.67.60 1.60 1.64 1.64 1.64 2.67 2.61 2.65 0.65 3.600.0 3.67.74 3.77.74 3.67.60 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.64															
3.80.0 3.247.3 3.247.00 3.246.00 11.79 1.212 0.42 63.74 4.06 2.10 2.549.0 0 3.4000 3.316.0 3.377.65 3.238.98 11.99 1.233 0.43 61.91 3.841.2 2.254.0 0 3.5000 3.477.57 3.384.8 1.241 1.274 0.44 8.52.2 3.333 2.43.2 2.350.0 3.6000 3.647.0 3.57.57 3.480.01 1.282 1.24 0.44 8.52.6 3.333 2.43.2 2.305.0 3.6000 3.647.40 3.57.57 3.480.01 1.282 1.34 0.46 5.276 2.721 2.55.2 1.650 1.60 3.6000 3.647.40 3.777.3 3.672.00 3.577.5 3.672.00 1.346 1.37 0.47 4.010 2.273 2.635 1.600 2.721.1 1.671 0.64 4.77.7 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 3.672.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
3.4000 3.314.03 3.377.65 3.280.95 11.99 12.33 0.43 61.91 38.41 2.51 2.634 0 3.460.00 3.367.70 3.277.65 3.347.12 12.20 12.53 0.43 60.08 36.17 2.315 2.65 0 3.660.00 3.647.05 3.277.65 3.487.61 12.22 12.41 0.74 0.44 65.42 31.69 2.47.2 2.81 0.6 3.660.00 3.647.01 3.277.61 3.487.11 12.62 13.16 0.46 65.42 2.71 2.55 2.065 0 3.600.01 3.647.40 3.777.31 3.674.06 13.77 13.64 13.77 0.47 4.910 2.27 2.636 106.0 2.752 15.79 0 3.600.01 3.677.40 3.777.33 3.672.60 13.66 1.386 0.46 5.03 1.60 2.762 1.579 0 3.600.01 3.677.41 3.877.22 3.678.58 14.40 0.51 4.179 13.76 2.031.141 0 Lewel 3 3.600.01															
34600 3.8077 3.427.62 3.3121 12.01 12.53 0.43 60.69 3.61.7 3.201.2 0 3.5000 3.47.2 3.37.53 3.435.74 12.62 12.41 12.74 0.44 56.22 3.169 2.432 2.281 0 3.6000 3.507.27 3.57.52 3.45.74 12.62 12.94 0.44 56.42 3.169 2.47.3 2.281 0 3.6000 3.507.27 3.57.53 3.530.27 13.34 13.56 0.46 50.39 2.497 2.55 2.60 0 3.7000 3.640.73 3.57.74 3.57.53 13.24 13.56 0.46 6.503 2.497 2.569 1.662 0 3.7000 3.640.73 3.77.74 3.672.69 13.45 13.77 0.44 4.64 12.27 2.649 2.579 0 3.8000 3.77.43 3.873.55 3.765.9 1.481 1.49 0.50 3.642 1.624 1.640 1.641 1.641 1.641 1.641 1.642 1.641 1.641 1.641 1.6	3,350.00	3,267.36	3,327.69	3,246.69	11.79	12.12	0.42	63.74	40.64	23.10	2.759	0			
3407.37 3477.59 3484.6 12.41 12.74 0.44 56.25 33.33 24.32 2.85 0 355000 3.577.50 3.483.01 12.28 12.94 0.44 56.42 31.69 24.73 2.817 0 365000 3.577.40 3.857.40 3.587.40 3.577.50 13.03 13.36 0.46 52.67 27.21 25.65 2.065 0 370000 3.640.73 3.777.30 3.624.60 13.86 13.86 0.46 52.76 27.21 2.563 1.662 0 3.80000 3.674.00 3.777.30 3.624.60 13.86 13.86 0.46 52.77 2.049 2.653 1.662 0 3.80000 3.807.40 3.877.32 3.766.59 14.08 14.39 0.50 4.362 16.00 2.762 1.579 0 3.80000 3.807.47 3.807.32 3.811.21 14.151 14.41 0.52 9.996 11.51 2.841 1.040 1.21 1.420 1.21 1.445 1.479 1.76 1.600 <t< td=""><td>3,400.00</td><td>3,314.03</td><td>3,377.65</td><td>3,293.95</td><td>11.99</td><td>12.33</td><td>0.43</td><td>61.91</td><td>38.41</td><td>23.51</td><td>2.634</td><td>0</td><td></td><td></td><td></td></t<>	3,400.00	3,314.03	3,377.65	3,293.95	11.99	12.33	0.43	61.91	38.41	23.51	2.634	0			
35500 3,52755 3,48374 12.62 12.24 0.44 66.27 22.61 0.1 3,6000 3,507.52 3,837752 3,483.01 12.62 13.15 0.45 54.59 22.61 2.11 0 3,6000 3,507.52 3,677.62 3,577.52 3,483.01 12.62 13.66 0.46 50.69 27.21 2.55 2.05 0 3,7600 3,640.73 3,777.42 3,672.40 13.45 13.77 0.47 49.10 22.73 2.681 1.962 0 3,760.00 3,670.47 3,877.32 3,766.59 14.08 14.39 0.69 43.62 16.00 2.762 1.671 0 3,900.00 3,776.74 3,877.32 3,818.8 14.72 15.62 0.56 36.30 7.02 2.68 1.291 0 Level 3 4,000.00 3,977.47 3,877.52 3,818.8 14.72 15.62 0.56 36.30 7.02 2.68 1.61 0.6 Level 3 4,000.00 3,977.42 3,817.44 15.59 15.85	3,450.00	3,360.70	3,427.62	3,341.21	12.20	12.53	0.43	60.08	36.17	23.91	2.512	0			
3.6000 3.677.52 3.483.01 12.82 13.15 0.46 9.459 26.14 2.171 0 3.65000 3.647.49 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80274 3.80280 13.46 13.24 13.66 0.46 0.933 2.447 2.562 2.065 0 3.8000 3.80740 3.87738 3.7739 3.675.66 13.86 13.86 14.90 4.643 12.24 2.201 1.671 0 3.80000 3.8740 3.877.52 3.8115 14.49 0.50 4.171 13.76 2.803 1.419 0.46 4.171 1.52 1.51 2.841 1.21 0 Level 3 4.00000 3.827.44 3.977.25 3.811.41 1.51 2.54 3.813 9.27 2.828 1.321 0 Level 3 4.00000 3.827.44 3.9719 3.556 1.521 0.55 5.630 7.22	3,500.00	3,407.37	3,477.59	3,388.48	12.41	12.74	0.44	58.25	33.93	24.32	2.395	0			
35000 3,547.39 3,627.49 3,502.71 13,03 13,36 0,46 52.76 27.21 25.55 2.065 0 37000 3,694.06 3,777.43 13,74 13,67 0,46 50.93 24.77 25.55 1.082 0 38000 3,687.40 3,777.39 3,672.06 13,66 13,96 0.44 47.27 20.49 26.79 1.765 0 38000 3,747.47 3,827.33 3,719.33 13,47 14.49 0.44 45.45 118.24 27.21 1.671 0 390000 3,787.74 3,827.23 3,716.59 14.08 14.39 0.50 43.62 16.00 27.62 1.579 0 400000 3,874.41 3,977.22 3,881.12 14.81 1.621 0.505 36.30 7.02 22.82 1.240 0 Lewel 3 410000 3,877.42 3,977.22 3,981.12 1.451 1.521 0.55 36.30 7.02 22.82 1.240 0 Lewel 3 410000 4,127.16 4,002.91	3,550.00	3,454.05	3,527.55	3,435.74	12.62	12.94	0.44	56.42	31.69	24.73	2.281	0			
3.7000 3.840.6 8.677.4 3.877.53 13.24 13.66 0.46 6.033 24.97 25.66 1602 0 3.750.00 3.867.03 3.772.42 3.624.06 13.46 13.77 0.47 49.10 2.273 26.38 1.662 0 3.850.00 3.740.74 3.877.32 3.765.65 14.08 14.39 0.50 43.62 16.00 27.82 1.579 0 3.800.00 3.874.08 3.977.25 3.811.12 14.61 0.52 39.66 11.51 2.84.1 1.66 0 Level 3 4.000.00 3.874.08 3.977.25 3.861.12 14.61 0.52 3.66 7.07 2.86 1.321 0 Level 3 4.000.00 3.874.08 3.977.55 3.861.12 14.81 0.52 3.66 7.07 2.86 1.321 0 Level 3 4.000.00 4.014.09 4.127.15 4.002.91 15.4 15.45 0.59 3.264 2.53 3.011 1.64 1.62 1.64 1.69 1.61 0.63 2.898	3,600.00	3,500.72	3,577.52	3,483.01	12.82	13.15	0.45	54.59	29.45	25.14	2.171	0			
3,780,00 3,807,30 3,777,32 3,872,60 13,66 13,78 0,47 4,010 2,73 2,638 18,62 0 3,800,00 3,780,77 3,877,32 3,773,20 3,780,78 3,872,75 3,713 3,188 14,19 0,40 45,45 18,24 2,720 1,871 0 3,900,00 3,780,77 3,877,32 3,766,59 14,08 14,39 0,50 43,62 16,00 2,762 1,579 0 3,900,00 3,874,03 3,972,25 3,813,85 14,29 14,60 0,51 41,79 1,376 28,03 1,414 0 Level 3 4,000,00 3,920,75 4,077,19 3,955,66 14,81 0,55 3,63,0 7,72 29,86 1,321 0 Level 3 4,100,00 4,177,12 4,050,18 15,45 15,56 0,59 3,264 2,53 3,011 1,084 0 Level 2 4,200,00 4,014,98 4,27,20 4,071,19 1,567 15,86 0,61 3,081 0,28 0,33 1,009 0	3,650.00	3,547.39	3,627.49	3,530.27	13.03	13.36	0.46	52.76	27.21	25.55	2.065	0			
3.800.00 3.877.40 3.777.30 3.777.30 3.787.30 13.87 14.19 0.49 45.45 18.24 27.20 1.671 0 3.900.00 3.787.40 3.877.32 3.786.59 14.08 14.99 0.50 43.62 16.00 27.26 1.579 0 3.900.00 3.877.41 3.977.22 3.881.12 14.15 14.160 0.51 41.79 13.76 2.863 1.410 0 Level 3 4.000.00 3.967.42 4.077.19 3.955.65 14.93 15.23 0.55 36.30 7.02 2.928 1.240 0 Level 3 4.100.00 3.967.42 4.077.19 3.955.65 14.93 15.23 0.55 36.30 7.02 2.928 1.240 0 Level 3 4.200.00 4.107.14 4.207.05 4.144.70 15.78 16.06 0.63 2.898 -1.96 0.051 0.803 0 Level 1 4.300.00 4.204.74 4.327.05 1.624 16.66 0.63 2.898 -1.96 0.051 0.866 0 <	3,700.00	3,594.06	3,677.45	3,577.53	13.24	13.56	0.46	50.93	24.97	25.96	1.962	0			
3,880.00 3,734.07 3,827.35 3,719.33 13,87 14.19 0.49 45.45 18.24 27.20 1.671 0 3,900.00 3,877.47 3,877.32 3,766.59 14.08 14.39 0.50 43.62 16.00 27.62 15.79 0 3,950.00 3,827.47 3,927.25 3,881.36 14.29 14.60 0.51 41.79 13.76 28.03 1.491 0 Level 3 4,000.00 3,927.75 3,881.12 14.51 14.51 0.55 36.30 7.02 29.68 1.21 0 Level 3 4,100.00 3,967.42 4,077.19 3,955.65 14.93 15.56 0.55 36.30 7.02 29.69 1.61 0 Level 3 4,100.00 4,067.76 4,177.12 4,007.41 15.57 15.56 0.61 30.81 0.28 0.351 1.009 0 Level 1 4,250.00 4,174.19 4,270.70 4,191.97 15.00 16.27 0.66 27.15 4.21 31.6 0.94 0.391 0.37 0 <td>3,750.00</td> <td>3,640.73</td> <td>3,727.42</td> <td>3,624.80</td> <td>13.45</td> <td>13.77</td> <td>0.47</td> <td>49.10</td> <td>22.73</td> <td>26.38</td> <td>1.862</td> <td>0</td> <td></td> <td></td> <td></td>	3,750.00	3,640.73	3,727.42	3,624.80	13.45	13.77	0.47	49.10	22.73	26.38	1.862	0			
3,900.00 3,780.74 3,877.32 3,766.59 14.08 14.39 0.50 43.62 16.00 27.62 1.579 0 3,900.00 3,827.41 3,927.25 3,861.12 14.61 0.52 39.96 11.51 28.44 14.05 0 Level 3 4,000.00 3,927.72 3,905.83 14.72 15.02 0.56 36.30 7.02 28.28 1.240 0 Level 3 4,100.00 3,967.42 4,077.19 3,955.65 14.93 15.23 0.55 36.30 7.02 28.28 1.240 0 Level 3 4,100.00 4,127.15 4,002.91 15.14 15.44 0.57 3.447 4.78 29.69 1.101 0 Level 2 4,200.00 4,060.76 4,177.12 4,051.11 15.44 0.57 0.56 2.71.5 4.78 29.69 1.104 0 Level 2 4,200.00 4,007.74 4,27.70 4,017.44 15.57 15.65 0.61 30.81 0.28 30.51 10.99 0 Level 1 4,300.	3,800.00	3,687.40	3,777.39	3,672.06	13.66	13.98	0.48	47.27	20.49	26.79	1.765	0			
3,99000 3,827.41 3,927.29 3,813.85 14.29 14.60 0.51 41.79 13.76 28.03 1.491 0 Level 3 4,000.00 3,874.08 3,977.25 3,861.12 14.51 14.81 0.52 3.99.6 11.51 28.44 14.00 0 Level 3 4,000.00 3,967.42 4,077.19 3,956.55 14.93 15.23 0.55 36.30 7.02 29.69 1.61 0 Level 3 4,100.00 3,967.42 4,077.19 3,956.55 14.93 15.26 0.59 32.44 2.53 30.11 1.64 0 Level 2 4,200.00 4,060.76 4,177.12 4,050.18 15.36 16.65 0.59 32.44 2.53 30.11 1.64 0 Level 3 4,200.00 4,154.10 4,277.05 4,144.70 15.78 16.06 0.63 2.898 -1.96 30.94 0.937 0 Level 1 4,400.00 4,247.45 4,366.54 4,266.05 16.64 16.90 0.76 21.66 10.76 32.62	3,850.00	3,734.07	3,827.35	3,719.33	13.87	14.19	0.49	45.45	18.24	27.20	1.671	0			
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5,050.00 4,854.16 5,026.55 4,853.67 19.01 19.22 7.42 1.55 -35.66 37.21 0.042 0 Level 1 5,092.03 4,893.40 5,068.55 4,893.40 19.19 19.39 90.24 0.19 -38.36 38.55 0.005 0 Level 1															
5,092.03 4,893.40 5,068.55 4,893.40 19.19 19.39 90.24 0.19 -38.36 38.55 0.005 0 Level 1															
5,100.00 4,900.83 5,076.52 4,900.93 19.23 19.43 146.69 0.35 -37.87 38.22 0.009 0 Level 1	5,092.03	4,893.40	5,068.55	4,893.40	19.19	19.39	90.24	0.19	-38.36	38.55	0.005	0		Level 1	
	5,100.00	4,900.83	5,076.52	4,900.93	19.23	19.43	146.69	0.35	-37.87	38.22	0.009	0		Level 1	

10/9/2022 1:09:31PM

Released to Imaging: 12/29/2022 11:35:01 AM

Page 42

COMPASS 5000.1 Build 56



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

f fset De urvey Prog Refer	ram: 0-X	OMR2_OWSG	MWD+IFR1+	ED - O27F MS Semi Major				tance					Offset Well Error:	0.00 u
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation	Probability of Collision	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor			
5,150.00	4,947.50	5,126.48	4,948.19	19.45	19.64	175.04	2.13	-36.03	38.16		0		Level 1	
5,200.00	4,994.18	5,176.45	4,995.46	19.66	19.85	177.44	3.96	-34.60	38.56	0.103	0		Level 1	
5,250.00	5,040.85	5,226.42	5,042.72	19.88	20.06	178.33	5.78	-33.19	38.97		0		Level 1	
5,300.00	5,087.52	5,276.38	5,089.99	20.10	20.27	178.79	7.61	-31.78	39.39	0.193	0		Level 1	
5,350.00	5,134.19	5,326.35	5,137.25	20.31	20.48	179.07	9.44	-30.37	39.81	0.237	0		Level 1	
5,400.00	5,180.86	5,376.32	5,184.51	20.53	20.70	179.26	11.27	-28.96	40.23		0		Level 1	
5,450.00	5,227.53	5,426.28	5,231.78	20.75	20.91	179.40	13.10	-27.55	40.65		0		Level 1	
5,500.00	5,274.20	5,476.25	5,279.04	20.97	21.12	179.51	14.93	-26.15	41.08		0		Level 1	
5,550.00	5,320.87	5,526.21	5,326.31	21.19	21.33	179.59	16.76	-24.74	41.50		0		Level 1	
5,600.00	5,367.54	5,576.18	5,373.57	21.40	21.54	179.65	18.59	-23.34	41.92		0		Level 1	
5,650.00	5,414.21	5,626.15	5,420.83	21.62	21.75	179.70	20.42	-21.93	42.35	0.482	0		Level 1	
5,700.00	5,460.88	5,676.11	5,468.10	21.84	21.97	179.75	22.25	-20.53	42.77	0.520	0		Level 1	
5,750.00	5,507.55	5,726.08	5,515.36	22.06	22.18	179.79	24.08	-19.12	43.20	0.557	0		Level 1	
5,800.00	5,554.22	5,776.05	5,562.63	22.28	22.39	179.82	25.90	-17.72	43.62	0.594	0		Level 1	
5,850.00	5,600.89	5,826.01	5,609.89	22.49	22.60	179.85	27.73	-16.31	44.05	0.630	0		Level 1	
5,900.00	5,647.56	5,875.98	5,657.15	22.71	22.81	179.87	29.56	-14.91	44.47	0.665	0		Level 1	
5,950.00	5,694.23	5,925.95	5,704.42	22.93	23.03	179.89	31.39	-13.51	44.90	0.699	0		Level 1	
6,000.00	5,740.91	5,975.91	5,751.68	23.15	23.24	179.91	33.22	-12.10	45.32	0.733	0		Level 1	
6,050.00	5,787.58	6,025.88	5,798.95	23.37	23.45	179.93	35.05	-10.70	45.75	0.766	0		Level 1	
6,100.00	5,834.25	6,075.85	5,846.21	23.59	23.66	179.95	36.88	-9.29	46.18	0.799	0		Level 1	
6,150.00	5,880.92	6,125.81	5,893.48	23.81	23.87	179.96	38.71	-7.89	46.60	0.831	0		Level 1	
6,200.00	5,927.59	6,175.78	5,940.74	24.03	24.09	179.97	40.54	-6.49	47.03	0.862	0		Level 1	
6,250.00	5,974.26	6,225.75	5,988.00	24.25	24.30	179.99	42.37	-5.09	47.45	0.893	0		Level 1	
6,300.00	6,021.08	6,275.73	6,035.28	24.46	24.51	180.00	43.78	-4.16	47.94	0.913	0		Level 1	
6,350.00	6,068.20	6,325.72	6,082.57	24.68	24.72	-179.99	44.32	-4.10	48.42	0.915	0		Level 1	
6,400.00	6,115.60	6,375.72	6,129.87	24.89	24.94	-179.98	43.98	-4.90	48.88	0.900	0		Level 1	
6,450.00	6,163.27	6,425.70	6,177.15	25.10	25.15	-179.97	42.77	-6.55	49.32	0.867	0		Level 1	
6,500.00	6,211.20	6,475.44	6,224.21	25.30	25.36	-179.96	40.73	-9.01	49.75	0.819	0		Level 1	
6,550.00	6,259.37	6,524.71	6,271.03	25.51	25.57	-179.95	38.48	-11.67	50.15	0.767	0		Level 1	
6,600.00	6,307.77	6,574.01	6,318.14	25.71	25.77	-179.93	36.22	-14.32	50.54	0.717	0		Level 1	
6,650.00	6,356.38	6,623.36	6,365.54	25.90	25.97	-179.92	33.94	-16.97	50.91	0.667	0		Level 1	
6,700.00	6,405.18	6,672.74	6,413.20	26.10	26.17	-179.90	31.66	-19.61	51.26	0.618	0		Level 1	
6,750.00	6,454.17	6,722.16	6,461.12	26.28	26.37	-179.88	29.36	-22.24	51.60	0.569	0		Level 1	
6,800.00	6,503.33	6,771.62	6,509.27	26.47	26.56	-179.86	27.05	-24.86	51.91	0.521	0		Level 1	
6,850.00	6,552.63	6,821.12	6,557.65	26.65	26.75	-179.83	24.74	-27.47	52.21	0.474	0		Level 1	
6,900.00	6,602.08	6,870.66	6,606.25	26.84	26.94	-179.80	22.42	-30.07	52.49		0		Level 1	
6,950.00	6,651.64	6,920.24	6,655.04	27.01	27.13	-179.77	20.08	-32.66	52.74	0.381	0		Level 1	
7,000.00	6,701.32	6,969.85	6,704.01	27.19	27.13	-179.72	17.74	-35.24	52.98		0		Level 1	
7,050.00	6,751.08	7,019.51	6,753.16	27.19	27.31	-179.67	17.74	-35.24	53.20		0		Level 1	
7,050.00	6,800.93	7,019.51	6,802.46	27.53	27.49	-179.67	13.40	-37.80	53.20		0		Level 1	
7,150.00	6,850.83	7,009.21	6,802.46 6,851.90	27.53	27.84	-179.59	10.69	-40.35 -42.89	53.40		0		Level 1	
7,200.00	6,900.78	7,168.73	6,901.47	27.86	28.01	-179.33	8.33	-45.41	53.74	0.155	0		Level 1	
7,250.00	6,950.76	7,218.55	6,951.15	28.01	28.18	-179.05	5.97	-47.90	53.87		0		Level 1	
7,300.00	7,000.76	7,268.41	7,000.93	28.17	28.34	-178.40	3.60	-50.38	53.98		0		Level 1	
7,350.00	7,050.76	7,318.32	7,050.81	28.32	28.50	-77.97	1.63	-52.63	54.26		0		Level 1	
7,400.00	7,100.76	7,368.29	7,100.76	28.47	28.66	-70.59	0.54	-54.00	54.54		0		Level 1	
7,450.00	7,150.76	7,418.29	7,150.76	28.62	28.82	-61.08	0.29	-54.64	54.94		0		Level 1	
7,500.00	7,130.76	7,418.29	7,130.76	28.02	28.97	-61.08	0.29	-54.04	55.24		0		Level 1	
		7,468.29	7,250.76			-61.08					0		Level 1	
7,550.00	7,250.76			28.93	29.12		0.29	-55.25	55.55					
7,600.00	7,300.76	7,568.29	7,300.76	29.08	29.28	-61.08	0.29	-55.56	55.85		0		Level 1	
7,650.00	7,350.76	7,618.29	7,350.76	29.23	29.43	-61.08	0.29	-55.87	56.16	0.005	0		Level 1	
7,700.00	7,400.76	7,668.29	7,400.76	29.39	29.59	-61.08	0.29	-56.17	56.46	0.005	0		Level 1	

10/9/2022 1:09:31PM

Page 43

COMPASS 5000.1 Build 56



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset De	-			ED - 027F	605H - O	27F 605H	ST1 - PLAN	13					Offset Site Error:	0.00 us
urvey Prog Refer	•	OMR2_OWSG Offse		+MS Semi Major	Avis		Die	tance					Offset Well Error:	0.00 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Separation Factor	of Collision	·	
7,750.00	7,450.76	7,718.29	7,450.76	29.54	29.74	-61.08	0.29	-56.48	56.77	0.005	0		Level 1	
7,800.00	7,500.76	7,768.29	7,500.76	29.69	29.90	-61.08	0.29	-56.79	57.08	0.005	0		Level 1	
7,850.00	7,550.76	7,818.29	7,550.76	29.85	30.05	-61.08	0.29	-57.10	57.39	0.005	0		Level 1	
7,900.00	7,600.76	7,868.29	7,600.76	30.00	30.21	-61.08	0.29	-57.41	57.70	0.005	0		Level 1	
7,950.00	7,650.76	7,918.29	7,650.76	30.16	30.36	-61.08	0.29	-57.72		0.005	0		Level 1	
8,000.00	7,700.76	7,968.29	7,700.76	30.31	30.52	-61.08	0.29	-58.03	58.32	0.005	0		Level 1	
8,050.00	7,750.76	8,018.29	7,750.76	30.47	30.67	-61.08	0.29	-58.34		0.005	0		Level 1	
8,100.00	7,800.76	8,068.29	7,800.76	30.62	30.83	-61.08	0.29	-58.65		0.005	0		Level 1	
8,150.00	7,850.76	8,118.29	7,850.76	30.78	30.99	-61.08	0.29	-58.96		0.005	0		Level 1	
8,200.00	7,900.76	8,168.29	7,900.76	30.93	31.14	-61.08	0.29	-59.27		0.005	0		Level 1	
8,250.00	7,950.76	8,218.29	7,950.76	31.09	31.30	-61.08	0.29	-59.59	59.88	0.005	0		Level 1	
8,300.00	8,000.76	8,268.29	8,000.76	31.25	31.46	-61.08	0.29	-59.90		0.005	0		Level 1	
8,350.00	8,050.76	8,318.29	8,050.76	31.40	31.62	-61.08	0.29	-60.21		0.005	0		Level 1	
8,400.00	8,100.76	8,368.29	8,100.76	31.56	31.77	-61.08	0.29	-60.53		0.005	0		Level 1	
8,450.00	8,150.76	8,418.29	8,150.76	31.72	31.93	-61.08	0.29	-60.84		0.005	0		Level 1	
8,500.00	8,200.76	8,468.29	8,200.76	31.88	32.09	-61.08	0.29	-61.16	61.45	0.005	0		Level 1	
8,550.00	8,250.76	8,518.29	8,250.76	32.03	32.25	-61.08	0.29	-61.47	61.77	0.005	0		Level 1	
8,600.00	8,300.76	8,568.29	8,300.76	32.19	32.41	-61.08	0.29	-61.79	62.08	0.005	0		Level 1	
8,650.00	8,350.76	8,618.29	8,350.76	32.35	32.57	-61.08	0.29	-62.11	62.40	0.005	0		Level 1	
8,700.00	8,400.76	8,668.29	8,400.76	32.51	32.73	-61.08	0.29	-62.42	62.72	0.005	0		Level 1	
8,750.00	8,450.76	8,718.29	8,450.76	32.67	32.89	-61.08	0.29	-62.74	63.03	0.005	0		Level 1	
8,800.00	8,500.76	8,768.29	8,500.76	32.83	33.05	-61.08	0.29	-63.06	63.35	0.005	0		Level 1	
8,850.00	8,550.76	8,818.29	8,550.76	32.98	33.21	-61.08	0.29	-63.38	63.67	0.005	0		Level 1	
8,900.00	8,600.76	8,868.29	8,600.76	33.14	33.37	-61.08	0.29	-63.70	63.99	0.005	0		Level 1	
8,950.00	8,650.76	8,918.29	8,650.76	33.30	33.53	-61.08	0.29	-64.02	64.31	0.005	0		Level 1	
9,000.00	8,700.76	8,968.29	8,700.76	33.46	33.69	-61.08	0.29	-64.34	64.63	0.005	0		Level 1	
9,050.00	8,750.76	9,018.29	8,750.76	33.62	33.85	-61.08	0.29	-64.66	64.95	0.004	0		Level 1	
9,100.00	8,800.76	9,068.29	8,800.76	33.78	34.01	-61.08	0.29	-64.98	65.27	0.004	0		Level 1	
9,150.00	8,850.76	9,118.29	8,850.76	33.94	34.17	-61.08	0.29	-65.30	65.59	0.004	0		Level 1	
9,200.00	8,900.76	9,168.29	8,900.76	34.10	34.33	-61.08	0.29	-65.62	65.91	0.004	0		Level 1	
9,250.00	8,950.76	9,218.29	8,950.76	34.26	34.49	-61.08	0.29	-65.94	66.24	0.004	0		Level 1	
9,300.00	9,000.76	9,268.29	9,000.76	34.43	34.65	-61.08	0.29	-66.27	66.56	0.004	0		Level 1	
9,350.00	9,050.76	9,318.29	9,050.76	34.59	34.81	-61.08	0.29	-66.59		0.004	0		Level 1	
9,400.00	9,100.76	9,368.29	9,100.76	34.75	34.98	-61.08	0.29	-66.91	67.20		0		Level 1	
9,450.00	9,150.76	9,418.29	9,150.76	34.91	35.14	-61.08	0.29	-67.23	67.53		0		Level 1	
9,500.00	9,200.76	9,468.29	9,200.76	35.07	35.30	-61.08	0.29	-67.56		0.004	0		Level 1	
9,550.00	9,250.76	9,518.29	9,250.76	35.23	35.46	-61.08	0.29	-67.88	69.17	0.004	0		Level 1	
9,600.00	9,250.76	9,518.29	9,250.76 9,300.76	35.23	35.46	-61.08	0.29	-67.66	68.50		0		Level 1	
9,650.00	9,350.76	9,618.29	9,350.76 9,350.76	35.56	35.03	-61.08	0.29	-68.53		0.004	0		Level 1	
9,850.00		9,618.29	9,350.76 9,400.76				0.29		69.15		0		Level 1	
9,750.00	9,400.76 9,450.76	9,000.29 9,718.29	9,400.76 9,450.76	35.72 35.88	35.95 36.11	-61.08 -61.08	0.29	-68.86 -69.18		0.004	0		Level 1	
9,800.00		9,768.29	9,500.76	36.04	36.28	-61.08	0.29	-69.51		0.004	0		Level 1	
9,850.00	9,550.76	9,818.29	9,550.76	36.21	36.44	-61.08	0.29	-69.83		0.004	0		Level 1	
9,900.00	9,600.76	9,868.29	9,600.76	36.37	36.60	-61.08	0.29	-70.16		0.004	0		Level 1	
9,950.00	9,650.76	9,918.29	9,650.76	36.53	36.77	-61.08	0.29	-70.49		0.004	0		Level 1	
10,000.00	9,700.76	9,968.29	9,700.76	36.70	36.93	-61.08	0.29	-70.81	71.10	0.004	0		Level 1	
10,050.00	9,750.76	10,018.29	9,750.76	36.86	37.10	-61.08	0.29	-71.14	71.43		0		Level 1	
10,100.00	9,800.76	10,068.29	9,800.76	37.02	37.26	-61.08	0.29	-71.47		0.004	0		Level 1	
10,150.00	9,850.76	10,118.29	9,850.76	37.19	37.42	-61.08	0.29	-71.80		0.004	0		Level 1	
10,200.00	9,900.76	10,168.29	9,900.76	37.35	37.59	-61.08	0.29	-72.12		0.004	0		Level 1	
10,250.00	9,950.76	10,218.29	9,950.76	37.51	37.75	-61.08	0.29	-72.45	72.74	0.004	0		Level 1	
10,300.00	10,000.76	10,268.29	10,000.76	37.68	37.92	-61.08	0.29	-72.78	73.07	0.004	0		Level 1	

10/9/2022 1:09:31PM

Page 44



GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Offset Des Survey Progr	•			ED - O27F MS	605H - O	27F 605H 3	ST1 - PLAN	13					Offset Site Error: Offset Well Error:	0.00 usft 0.00 usft
Refer	ence	Offs	et	Semi Major	Axis		Dis	ance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
10,350.00	10,050.76	10,318.29	10,050.76	37.84	38.08	-61.08	0.29	-73.11	73.40	0.004	0		Level 1	
10,400.00	10,100.76	10,368.29	10,100.76	38.01	38.25	-61.08	0.29	-73.44	73.73	0.004	0		Level 1	
10,450.00	10,150.76	10,418.29	10,150.76	38.17	38.41	-61.08	0.29	-73.77	74.06	0.004	0		Level 1	
10,500.00	10,200.76	10,468.29	10,200.76	38.34	38.58	-61.08	0.29	-74.10	74.39	0.004	0		Level 1	
10,550.00	10,250.76	10,518.29	10,250.76	38.50	38.74	-61.08	0.29	-74.43	74.72	0.004	0		Level 1	
10,600.00	10,300.76	10,568.29	10,300.76	38.66	38.91	-61.08	0.29	-74.76	75.05	0.004	0		Level 1	
10,650.00	10,350.76	10,618.29	10,350.76	38.83	39.07	-61.08	0.29	-75.09	75.38	0.004	0		Level 1	
10,700.00	10,400.76	10,668.29	10,400.76	38.99	39.24	-61.08	0.29	-75.42	75.71	0.004	0		Level 1	
10,750.00	10,450.76	10,718.29	10,450.76	39.16	39.41	-61.08	0.29	-75.75	76.04	0.004	0		Level 1	
10,800.00	10,500.76	10,768.29	10,500.76	39.33	39.57	-61.08	0.29	-76.08	76.37	0.004	0		Level 1	
10,850.00	10,550.76	10,818.29	10,550.76	39.49	39.74	-61.08	0.29	-76.41	76.71	0.004	0		Level 1	
10,900.00	10,600.76	10,868.29	10,600.76	39.66	39.90	-61.08	0.29	-76.75	77.04	0.004	0		Level 1	
10,950.00	10,650.76	10,918.29	10,650.76	39.82	40.07	-61.08	0.29	-77.08	77.37	0.004	0		Level 1	
11,000.00	10,700.76	10,968.29	10,700.76	39.99	40.24	-61.08	0.29	-77.41	77.70	0.004	0		Level 1	
11,050.00	10,750.76	11,018.29	10,750.76	40.15	40.40	-61.08	0.29	-77.74	78.03	0.004	0		Level 1	
11,100.00	10,800.76	11,068.29	10,800.76	40.32	40.57	-61.08	0.29	-78.07	78.37	0.004	0		Level 1	
11,150.00	10,850.76	11,118.29	10,850.76	40.49	40.74	-61.08	0.29	-78.41	78.70	0.004	0		Level 1	
11,200.00	10,900.76	11,168.29	10,900.76	40.65	40.90	-61.08	0.29	-78.74	79.03	0.004	0		Level 1	
11,250.00	10,950.76	11,218.29	10,950.76	40.82	41.07	-61.08	0.29	-79.07	79.37	0.004	0		Level 1	
11,300.00	11,000.76	11,268.29	11,000.76	40.99	41.24	-61.08	0.29	-79.41	79.70	0.004	0		Level 1	
11,350.00	11,050.76	11,318.29	11,050.76	41.15	41.40	-61.08	0.29	-79.74	80.03	0.004	0		Level 1	
11,400.00	11,100.76	11,368.29	11,100.76	41.32	41.57	-61.08	0.29	-80.08	80.37	0.004	0		Level 1	
11,450.00	11,150.76	11,418.29	11,150.76	41.49	41.74	-61.08	0.29	-80.41	80.70	0.004	0		Level 1	
11,500.00	11,200.76	11,468.29	11,200.76	41.65	41.91	-61.08	0.29	-80.74	81.04	0.004	0		Level 1	
11,550.00	11,250.76	11,518.29	11,250.76	41.82	42.07	-61.08	0.29	-81.08	81.37	0.004	0		Level 1	
11,600.00	11,300.76	11,568.29	11,300.76	41.99	42.24	-61.08	0.29	-81.41	81.71	0.004	0		Level 1	
11,650.00	11,350.76	11,618.29	11,350.76	42.15	42.41	-61.08	0.29	-81.75	82.04	0.004	0		Level 1	
11,700.00	11,400.76	11,668.29	11,400.76	42.32	42.58	-61.08	0.29	-82.08	82.38	0.004	0		Level 1	
11,750.00	11,450.76	11,718.29	11,450.76	42.49	42.74	-61.08	0.29	-82.42	82.71	0.004	0		Level 1	
11,800.00	11,500.76	11,768.29	11,500.76	42.66	42.91	-61.08	0.29	-82.76	83.05	0.004	0		Level 1	
11,850.00	11,550.76	11,818.29	11,550.76	42.82	43.08	-61.08	0.29	-83.09	83.38	0.004	0		Level 1	
11,900.00	11,600.76	11,868.29	11,600.76	42.99	43.25	-61.08	0.29	-83.43	83.72	0.003	0		Level 1	
11,950.00	11,650.76	11,918.29	11,650.76	43.16	43.42	-61.08	0.29	-83.76	84.06	0.003	0		Level 1	
12,000.00	11,700.76	11,968.29	11,700.76	43.33	43.59	-61.08	0.29	-84.10	84.39	0.003	0		Level 1 , ES, SF	

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



GeoGuidance

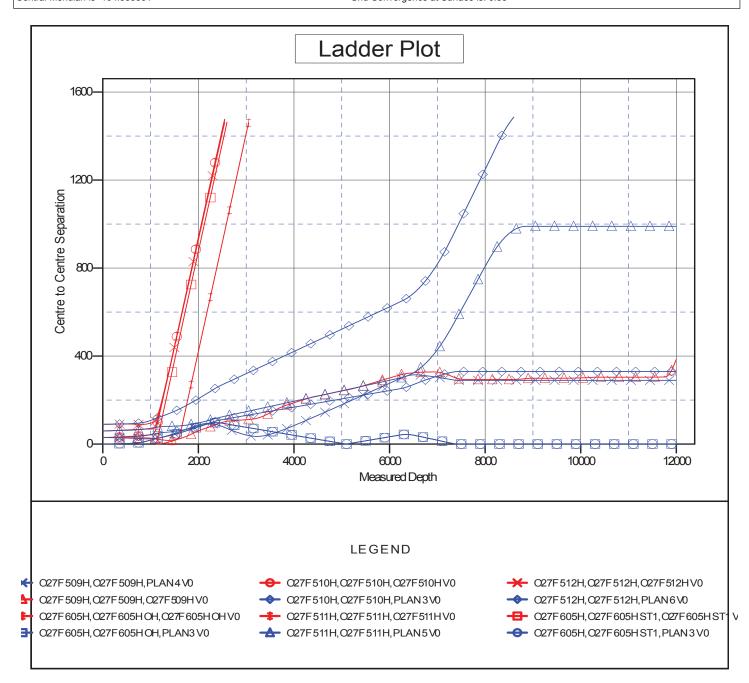
Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30'
			KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Reference Depths are relative to O27F 605H @ 3558.00usft (H&P 508 Offset Depths are relative to Offset Datum Central Meridian is -104.333334 °

Coordinates are relative to: O27F 605H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.35°





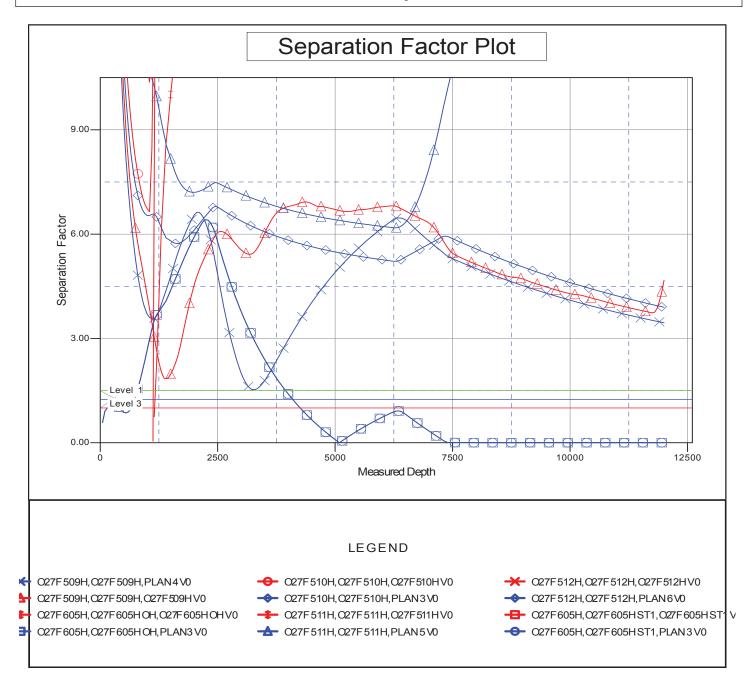
GeoGuidance

Anticollision Risk Report



Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well O27F 605H
Project:	LEA COUNTY, NM	TVD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Reference Site:	OUTRIDER 27 FED	MD Reference:	O27F 605H @ 3558.00usft (H&P 508 - 30' KB)
Site Error:	0.00	North Reference:	Grid
Reference Well:	O27F 605H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	O27F 605H ST1	Database:	XTO ENERGY
Reference Design:	BOP1123	Offset TVD Reference:	Offset Datum

Reference Depths are relative to O27F 605H @ 3558.00usft (H&P 508 Offset Depths are relative to Offset Datum Central Meridian is -104.333334 ° Coordinates are relative to: O27F 605H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.35°



RE: [EXTERNAL] Outrider 27 Federal 605H (API: 30-025-50287) -- Intermediate Collision w/Outrider 27 Federal 509H (API: 30-025-50237)

Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com> Tue 10/11/2022 6:07 AM To: Vo, Long T <lvo@blm.gov>;Bailey, Stephen A <sbailey@blm.gov> Cc: Dooling, Jessica <jessica.dooling@exxonmobil.com>;Walls, Christopher <cwalls@blm.gov> Thank you, Long!

Sundry submissions for all work performed pending this morning. Will let you and the team know once submitted.

Appreciate your help with this issue.

Stephanie Rabadue ExxonMobil UOG Unconventional Permian Business Unit, Regulatory Manager Phone: 432-620-6714 <u>stephanie.rabadue@exxonmobil.com</u>

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

From: Vo, Long T [mailto:lvo@blm.gov]
Sent: Tuesday, October 11, 2022 6:01 AM
To: Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com>; Bailey, Stephen A <sbailey@blm.gov>
Cc: Dooling, Jessica <jessica.dooling@exxonmobil.com>; Walls, Christopher <cwalls@blm.gov>
Subject: Re: [EXTERNAL] Outrider 27 Federal 605H (API: 30-025-50287) -- Intermediate Collision w/Outrider 27 Federal 509H (API: 30-025-50237)

External Email - Think Before You Click

Ms. Stephanie,

Before sidetracking the 605H, please properly secure and TA the 509H well. Please provide the BLM with a current and propose procedure of the TA. The collided interval of the 509H will need to have a balance plug 50' below and 50' on top and a CIBP with 25 sxs on top, the wells will also need to not pressure communicate with one another. Please perform an MIT test on the 509H.

To sidetrack the 605H please spot cement from the last Tag depth to the KOP and wait on cement until 500 psi is reached before drilling the sidetrack.

Regards,

Long Vo

Petroleum Engineer Carlsbad Field Office Land and Minerals Bureau of Land Management Department of Interior 575-988-5402 Cell From: Rabadue, Stephanie <<u>stephanie.rabadue@exxonmobil.com</u>>
Sent: Monday, October 10, 2022 5:16 PM
To: Vo, Long T <<u>lvo@blm.gov</u>>; Bailey, Stephen A <<u>sbailey@blm.gov</u>>
Cc: Dooling, Jessica <jessica.dooling@exxonmobil.com</u>>; Walls, Christopher <<u>cwalls@blm.gov</u>>
Subject: RE: [EXTERNAL] Outrider 27 Federal 605H (API: 30-025-50287) -- Intermediate Collision w/Outrider 27 Federal 509H (API: 30-025-50237)

Long,

Thank you for the conversation this afternoon. While skidding the rig is an option if we continue to have difficulties, we'd need to skid to the otherside of the pad to be successful. This well is between two other wells on the pad at current: one to the North and the 509H to the South. I've attached our updated AC report for the 605H sidetrack/deviation in the intermediate casing. As discussed, our anticipated KOP would be at ~1123'MD where we tagged the last plug in the hole. XTO has no intention of drilling a surface casing window or interfering with the surface casing shoe associated with the 605H.

Please let us know if sidetracking/parallel and deviating the 605H is approvable.

Thank you for your help!

Stephanie Rabadue ExxonMobil UOG Unconventional Permian Business Unit, Regulatory Manager Phone: 432-620-6714 <u>stephanie.rabadue@exxonmobil.com</u>

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

From: Vo, Long T [mailto:lvo@blm.gov]
Sent: Monday, October 10, 2022 4:35 PM
To: Rabadue, Stephanie <<u>stephanie.rabadue@exxonmobil.com</u>>; Bailey, Stephen A <<u>sbailey@blm.gov</u>>
Cc: Dooling, Jessica <jessica.dooling@exxonmobil.com>; Walls, Christopher <<u>cwalls@blm.gov</u>>
Subject: Re: [EXTERNAL] Outrider 27 Federal 605H (API: 30-025-50287) -- Intermediate Collision w/Outrider 27 Federal 509H (API: 30-025-50237)

External Email - Think Before You Click

Stephanie,

With 605H only has the surface casing set, how about plugging this well and skid over 30' and drill a new well? Please see the attached skidding procedure. You'll just have to submit a skidding sundry and a P&A sundry. The 509H can be re-evaluated.

Regards,

Long Vo

Petroleum Engineer Carlsbad Field Office Land and Minerals Bureau of Land Management Department of Interior 575-988-5402 Cell From: Rabadue, Stephanie <<u>stephanie.rabadue@exxonmobil.com</u>>
Sent: Monday, October 10, 2022 4:17 PM
To: Vo, Long T <<u>lvo@blm.gov</u>>; Bailey, Stephen A <<u>sbailey@blm.gov</u>>
Cc: Dooling, Jessica <jessica.dooling@exxonmobil.com>; Walls, Christopher <<u>cwalls@blm.gov</u>>
Subject: [EXTERNAL] Outrider 27 Federal 605H (API: 30-025-50287) -- Intermediate Collision w/Outrider 27 Federal 509H (API: 30-025-50237)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good afternoon, Long and Stephen,

As discussed on the phone, XTO experienced a wellbore collision the morning of Saturday, October 08.

Situation Summary

While drilling our Outrider 27 Federal 605H (API: 30-025-50287) we experienced severe bit drift that caused a collision with XTO's Outrider 27 Federal 509H (API: 30-025-50237) at approximately ~1553' MD/1580'TVD in the intermediate portions of the wells. Both wells are currently under control. Neither well had finished drilling to planned TD and neither well was completed/producing at the time of the incident. Both wells remain static. Post-collision, XTO pressure tested the 605H with the 509H well shut-in where it was observed the wellbores were communicating with each other. XTO then pu, mped a 500' 17.5ppg Class H cement plug at the base of the 605H (1580'MD), WOC, and tagged TOC at 1557'MD in the 605H bore, indicating that the majority of the cement fell into the 509H wellbore. A second 800' 14.8ppg Class C cement plug was then pumped at 1557MD'. After WOC, we were able to tag the plug at ~1123'MD. We're currently WOC for the next-12 hours to ensure cement integrity in the 605H hole.

Well Configuration / Current Status

Outrider 27 Federal 509H

- 1. Surface and Intermediate Casing Set.
- 2. Hole in Casing Point: TBD, Depth Under Evaluation.
- 3. Well is static.
- 4. No pressure observed on bradenhead for surface or intermediate annuli.

Configuration

Surface Csg: 17-1/2" hole, 13-3/8" 54.5ppf J-55 csg @ 968'MD Surface Cmt: 124bbl of 12.8ppg 35/65 Poz C Lead; 229bbl of 14.8ppg Class C Tail. Circ'd to Surf. Inter. Csg: 12-1/4" hole, 9-5/8" 40ppf P110/L80 csg (xo @4885') @ 11,660'MD Inter. Cmt: 597bbl of 14ppg Class C Squeeze and 351bbl of 15.6ppg Class H Tail. Circ'd to Surf.

Outrider 27 Federal 605H

- 1. Surface casing set and cemented.
- 2. XTO was drilling ahead with intermediate hole when collision occurred at ~1553' MD/1580'TVD (Current TD of Intermediate Hole).
- 3. Well is static w/OH from 1112-1123' MD (Salt Formation).
- 4. No pressure observed on surface csg annuli.

Configuration

Surface Csg: 17-1/2" hole, 13-3/8" 54.5ppf J-55 csg @ 1112'MD Surface Cmt: 124bbl of 12.8ppg 35/65 Poz C Lead; 229bbl of 14.8ppg Class C Tail. Circ'd to Surf.

Intermediate Hole: 12-1/4" @ 1553'MD/1580'TVD (Collision w/509H)

Proposed Plan

Outrider 27 Federal 509H

No current proposed plan. This well is under evaluation for forward plan. Wellbore integrity is of the utmost priority. Once the rig returns to the 509H, continued evaluation of the static wellbore will ensue and XTO will communicate and request BLM permission to proceed with our recommended plan of action (casing patch, abandonment, etcetera).

Outrider 27 Federal 605H

XTO requests permission to utilize the recently tagged plug at 1123'MD as a kick-off plug, then deviate and parallel the existing well with no changes anticipated to MD/TVD. Further, no change in casing/cement configuration are requested at this time. We'll be ready to proceed with this plan at ~3am, Tuesday October 11.

I appreciate your help this afternoon, especially it being a holiday!

Stephanie Rabadue

ExxonMobil UOG Unconventional Permian Business Unit, Regulatory Manager 6401 Holiday Hill Road, Bldg 5 Midland, TX 79707 Phone: 432-620-6714 <u>stephanie.rabadue@exxonmobil.com</u>

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	167236
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/29/2022

Action 167236