

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



7/6/2020

Operator Notice Regarding C-104 Denial and Request for Information

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

30-015-45452

Test Allowable, New Well and Recompleted Well

(Amend C-104)

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner

☐ Applicable Order (NSL, NSP, Other _____)

☐ Deviation Survey for Vertical Wells

☐ Directional Survey

☐ C-102 (As-Drilled Plat for Horizontal Well) Please see attached, some fields are not clear.

New Well and Recompleted Well Only

☐ C-103 Completion Sundry (or BLM equivalent)

☒ C-105 Completion Report (or BLM equivalent) * Approved copy

*Please review rule: 19.15.7.36

☐ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. If OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Please re-submit the attached with missing form(s) marked above.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-104
Revised August 1, 2011
EMNRD-OCD ARTESIA
REC'D: 6/02/2020
Submit one copy to appropriate District Office
☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address XTO Permian Operation LLC 6401 Holiday Hill Rd., Bldg 5 Midland, TX 79707		² OGRID Number 373075	
		³ Reason for Filing Code/ Effective Date New Well	
⁴ API Number 30-015-45052	⁵ Pool Name PURPLE SAGE; WOLFCAMP (GAS)		⁶ Pool Code 98220
⁷ Property Code 325573	⁸ Property Name POKER LAKE UNIT 15 TWIN WELLS RANCH		⁹ Well Number 108H

II. ¹⁰ Surface Location

UI or lot no. P	Section 15	Township 24S	Range 31E	Lot Idn	Feet from the 330	North/South Line South	Feet from the 1200	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. P	Section 27	Township 24S	Range 31E	Lot Idn	Feet from the 200	North/South line South	Feet from the 332	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	Plains Marketing LP	O
248440	Western Refining Company, LP	O
005380	XTO Energy, Inc	G

IV. Well Completion Data

²¹ Spud Date 08/08/19	²² Ready Date 02/07/20	²³ TD 22022	²⁴ PBDT 22004	²⁵ Perforations 12084-21832	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
18.5		16	893		745
14.75		11.75	4425		1695
10.625		8.625	10619		2000
7.875		5.5	22006		2835
		2.875 Tubing	11161		

V. Well Test Data

³¹ Date New Oil 02/08/20	³² Gas Delivery Date 02/08/20	³³ Test Date 2/26/20	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 978	³⁶ Csg. Pressure 8
³⁷ Choke Size	³⁸ Oil 2289	³⁹ Water 5990	⁴⁰ Gas 5826		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Cheryl Rowell			OIL CONSERVATION DIVISION		
Printed name: CHERYL ROWELL			Approved by: DENIED		
Title: REGULATORY COORDINATOR			Title:		
E-mail Address: CHERYL_ROWELL@XTOENERGY.COM			Approval Date:		
Date: 03/19/20		Phone: 432-218-3754	Please amend/review attachments		

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number



MWD SURVEY CERTIFICATION
Gordon Technologies, LLC

State Of New Mexico

County Of Eddy

I, Marcus Mitcham certify that; I am employed by Gordon Technologies, LLC.;
that I did on the day(s) of August 8, 2019 through October 4, 2019 conduct
or supervise the taking of a MWD survey from a depth of 177 feet to a depth of
22,022 feet; that the data is true, correct, complete and within the limitations of the
tool set forth by Gordon Technologies, LLC.; that I am authorized and qualified to make this report;
that this survey was conducted at the request of XTO Permian Operating LLC for the
PLU 15 TWR 108H Well, A.P.I. No. 30-015-45452 in
Delaware Basin / Purple Sage WO Field and that I have reviewed this report and find that
it conforms to the principles and procedures set forth by Gordon Technologies, LLC.

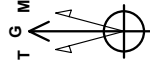
Signature

MWD Coordinator

Title

XTO Energy

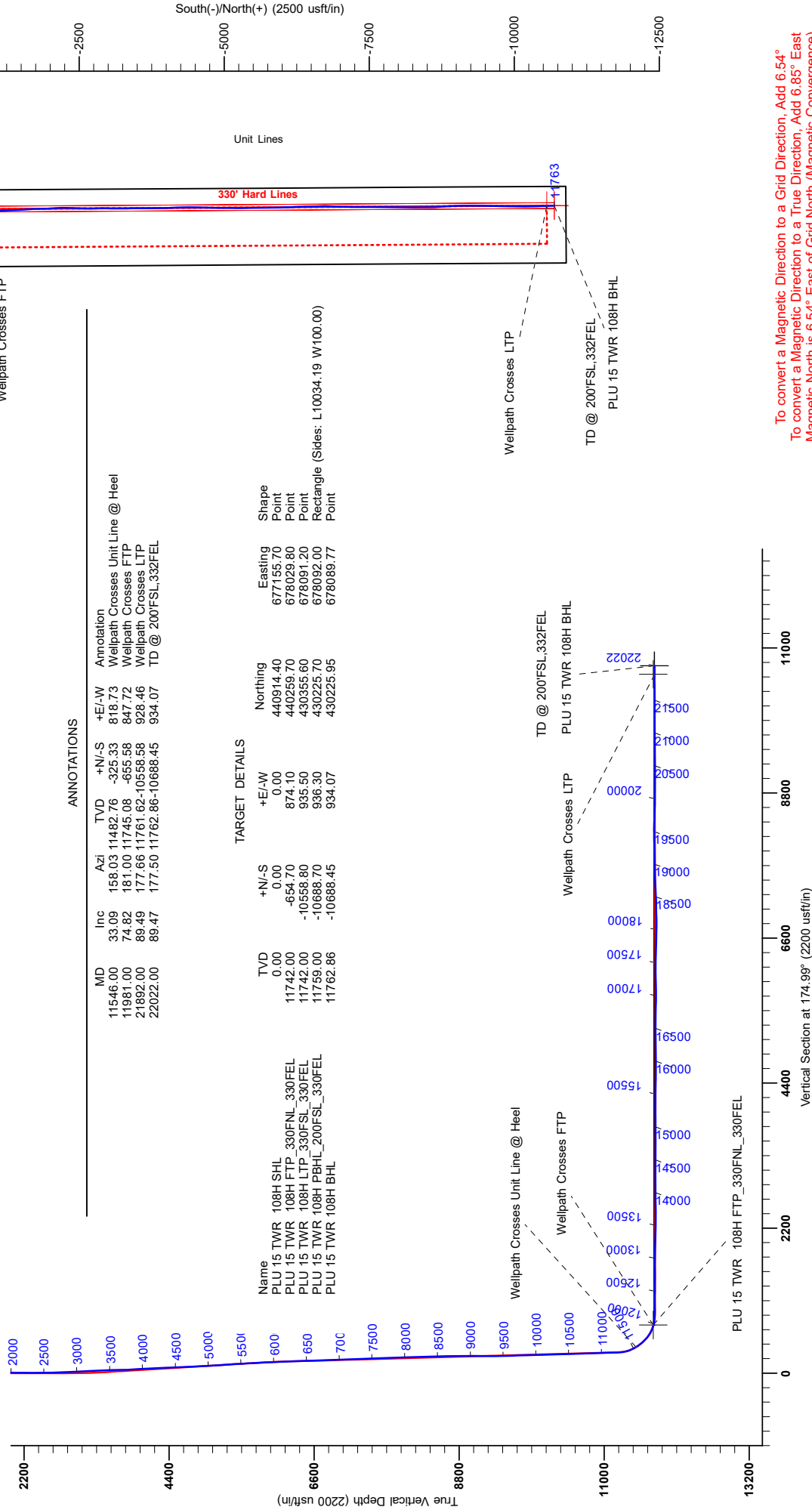
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: PLU 15 TWIN WELLS RANCH
Well: PLU 15 TWIN WELLS RANCH 108H
Wellbore: 15-108H Lateral
Design: 15-108H Lateral AsDrilled



Azinuths to Grid North
True North: -0.31°
Magnetic North: 6.54°

Magnetic Field
Strength: 47871.0nT
Dip Angle: 59.90°
Date: 07/16/2019
Model: IFR

3567+32 @ 3599.00usft (Pat793ad)
NAD 1927 (NADCON CONUS)



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
11546.00	33.09	158.03	11482.76	-325.33	818.73	Wellpath Crosses Unit Line @ Heel
11981.00	74.82	181.00	11745.08	-655.58	847.72	Wellpath Crosses FTP
21892.00	89.49	177.66	11761.62	-10558.58	928.46	Wellpath Crosses LTP
22022.00	89.47	177.50	11762.86	-10688.45	934.07	TD @ 200FSL_332FEL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PLU 15 TWR 108H SHL	0.00	0.00	0.00	440914.40	677155.70	Point
PLU 15 TWR 108H FTP_330FEL	11742.00	-654.70	874.10	440259.70	678029.80	Point
PLU 15 TWR 108H LTP_330FEL	11742.00	-10558.80	935.50	430355.60	678091.20	Point
PLU 15 TWR 108H PBL_200FSL_330FEL	11759.00	-10688.70	936.30	430225.70	678092.00	Rectangle (Sides: L10034.19 W100.00)
PLU 15 TWR 108H BHL	11762.86	-10688.45	934.07	430225.95	678089.77	Point

To convert a Magnetic Direction to a Grid Direction, Add 6.54°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
Magnetic North is 6.54° East of Grid North (Magnetic Convergence)
Magnetic North is 6.85° East of True North (Magnetic Declination)

Design: 15-108H Lateral AsDrilled (PLU 15 TWIN WELLS RANCH 108H/15-108H Lateral)
Created By: Mekka Williams
eSomnia Well Design
mekka@esominawelldesign.com
17/28, October 07 2019

PREDATOR DIRECTIONAL
11323 MONARCHS WAY
Montgomery TX, 77316



Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

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

Site	PLU 15 TWIN WELLS RANCH		
Site Position:		Northing:	440,894.90 usft
From:	Map	Easting:	674,201.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32.21088250
		Longitude:	-103.77009603
		Grid Convergence:	0.30 °

Well	PLU 15 TWIN WELLS RANCH 108H		
Well Position	+N/-S	0.00 usft	Northing: 440,914.40 usft
	+E/-W	0.00 usft	Easting: 677,155.70 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.21089318
		Longitude:	-103.76054279
		Ground Level:	3,567.00 usft

Wellbore	15-108H Lateral		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	07/16/19	6.85
			Dip Angle (°) 59.90
			Field Strength (nT) 47,871.00000000

Design	15-108H Lateral AsDrilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 174.99

Survey Program	Date	10/07/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
177.00	11,140.00	Survey #1 (15-108H Lateral)	MWD	OWSG MWD - Standard
11,186.00	21,968.00	Survey #2 (15-108H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
22,022.00	22,022.00	Survey #3 (15-108H Lateral)	Projection	Projection

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PLU 15 TWR 108H SHL									
177.00	0.83	134.55	176.99	-0.90	0.91	0.98	0.47	0.47	0.00
208.00	0.94	136.98	207.99	-1.24	1.25	1.35	0.37	0.35	7.84
300.00	0.65	134.82	299.98	-2.16	2.13	2.34	0.32	-0.32	-2.35
390.00	0.58	156.12	389.98	-2.94	2.68	3.16	0.26	-0.08	23.67
480.00	0.84	164.97	479.97	-3.99	3.03	4.24	0.31	0.29	9.83
510.00	1.11	155.23	509.96	-4.47	3.21	4.73	1.05	0.90	-32.47
574.00	1.08	187.24	573.95	-5.63	3.40	5.90	0.94	-0.05	50.02

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
669.00	1.11	174.94	668.94	-7.43	3.36	7.70	0.25	0.03	-12.95	
764.00	1.38	180.78	763.91	-9.50	3.43	9.76	0.31	0.28	6.15	
853.00	1.51	186.40	852.89	-11.73	3.29	11.97	0.22	0.15	6.31	
960.00	1.88	182.45	959.84	-14.89	3.05	15.10	0.36	0.35	-3.69	
1,054.00	1.58	164.70	1,053.80	-17.68	3.33	17.90	0.65	-0.32	-18.88	
1,148.00	2.16	142.90	1,147.75	-20.34	4.74	20.68	0.97	0.62	-23.19	
1,242.00	1.58	140.05	1,241.70	-22.75	6.64	23.24	0.62	-0.62	-3.03	
1,336.00	1.18	136.36	1,335.67	-24.44	8.14	25.06	0.44	-0.43	-3.93	
1,431.00	0.59	84.74	1,430.66	-25.10	9.30	25.82	0.99	-0.62	-54.34	
1,525.00	1.50	28.29	1,524.64	-23.98	10.37	24.79	1.35	0.97	-60.05	
1,620.00	2.87	22.16	1,619.57	-20.68	11.85	21.63	1.46	1.44	-6.45	
1,713.00	2.96	25.90	1,712.45	-16.36	13.78	17.50	0.23	0.10	4.02	
1,808.00	2.94	30.23	1,807.33	-12.05	16.08	13.41	0.24	-0.02	4.56	
1,902.00	2.44	18.52	1,901.22	-8.07	17.93	9.60	0.79	-0.53	-12.46	
1,996.00	1.07	351.68	1,995.18	-5.30	18.44	6.89	1.66	-1.46	-28.55	
2,091.00	0.99	290.53	2,090.17	-4.14	17.54	5.65	1.11	-0.08	-64.37	
2,185.00	2.05	285.51	2,184.13	-3.40	15.16	4.71	1.14	1.13	-5.34	
2,280.00	1.23	272.17	2,279.09	-2.91	12.50	3.99	0.95	-0.86	-14.04	
2,374.00	0.95	232.05	2,373.08	-3.35	10.88	4.29	0.84	-0.30	-42.68	
2,468.00	1.67	230.45	2,467.05	-4.70	9.21	5.49	0.77	0.77	-1.70	
2,563.00	1.57	223.46	2,562.01	-6.53	7.25	7.14	0.23	-0.11	-7.36	
2,657.00	1.23	224.76	2,655.99	-8.18	5.65	8.64	0.36	-0.36	1.38	
2,752.00	2.10	218.99	2,750.94	-10.26	3.84	10.55	0.93	0.92	-6.07	
2,846.00	2.88	204.57	2,844.86	-13.74	1.77	13.85	1.06	0.83	-15.34	
2,941.00	3.62	168.76	2,939.71	-18.86	1.36	18.90	2.23	0.78	-37.69	
3,035.00	4.71	142.09	3,033.47	-24.81	4.31	25.09	2.33	1.16	-28.37	
3,129.00	5.04	113.44	3,127.14	-29.50	10.48	30.30	2.59	0.35	-30.48	
3,224.00	6.23	107.44	3,221.68	-32.71	19.22	34.26	1.40	1.25	-6.32	
3,318.00	4.55	109.44	3,315.27	-35.48	27.60	37.75	1.80	-1.79	2.13	
3,413.00	4.21	112.07	3,409.99	-38.04	34.39	40.90	0.42	-0.36	2.77	
3,507.00	3.47	113.99	3,503.78	-40.49	40.19	43.85	0.80	-0.79	2.04	
3,602.00	2.62	116.46	3,598.64	-42.63	44.76	46.38	0.91	-0.89	2.60	
3,696.00	2.59	117.32	3,692.54	-44.56	48.57	48.63	0.05	-0.03	0.91	
3,790.00	4.76	117.95	3,786.35	-47.36	53.90	51.89	2.31	2.31	0.67	
3,885.00	6.68	117.54	3,880.87	-51.77	62.28	57.01	2.02	2.02	-0.43	
3,977.00	6.00	118.12	3,972.30	-56.51	71.27	62.52	0.74	-0.74	0.63	
4,072.00	5.20	122.40	4,066.85	-61.15	79.28	67.84	0.95	-0.84	4.51	
4,167.00	4.97	129.10	4,161.48	-66.06	86.11	73.32	0.67	-0.24	7.05	
4,261.00	4.83	133.46	4,255.13	-71.35	92.14	79.12	0.42	-0.15	4.64	
4,356.00	4.49	120.16	4,349.82	-75.97	98.26	84.26	1.19	-0.36	-14.00	
4,543.00	4.10	109.64	4,536.30	-81.89	110.89	91.26	0.47	-0.21	-5.63	
4,638.00	4.17	108.10	4,631.05	-84.11	117.37	94.03	0.14	0.07	-1.62	
4,732.00	4.03	107.51	4,724.81	-86.16	123.77	96.64	0.16	-0.15	-0.63	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,826.00	5.11	116.15	4,818.51	-89.00	130.67	100.07	1.36	1.15	9.19	
4,920.00	6.06	121.70	4,912.07	-93.45	138.65	105.20	1.16	1.01	5.90	
5,014.00	5.95	122.51	5,005.55	-98.68	146.98	111.14	0.15	-0.12	0.86	
5,109.00	6.07	122.29	5,100.03	-104.01	155.38	117.18	0.13	0.13	-0.23	
5,203.00	6.08	121.56	5,193.50	-109.27	163.82	123.16	0.08	0.01	-0.78	
5,297.00	6.29	120.06	5,286.95	-114.45	172.52	129.08	0.28	0.22	-1.60	
5,391.00	6.07	120.46	5,380.41	-119.55	181.26	134.92	0.24	-0.23	0.43	
5,485.00	6.04	118.64	5,473.88	-124.44	189.89	140.55	0.21	-0.03	-1.94	
5,580.00	5.93	118.48	5,568.37	-129.18	198.59	146.03	0.12	-0.12	-0.17	
5,673.00	5.99	119.57	5,660.86	-133.86	207.03	151.43	0.14	0.06	1.17	
5,768.00	5.99	117.66	5,755.34	-138.61	215.73	156.92	0.21	0.00	-2.01	
5,862.00	6.33	109.12	5,848.80	-142.58	224.97	161.69	1.04	0.36	-9.09	
5,956.00	6.53	105.12	5,942.21	-145.68	235.03	165.64	0.52	0.21	-4.26	
6,050.00	6.43	105.52	6,035.61	-148.48	245.26	169.33	0.12	-0.11	0.43	
6,144.00	6.63	104.81	6,129.00	-151.27	255.58	173.02	0.23	0.21	-0.76	
6,239.00	6.38	104.55	6,223.39	-154.00	265.99	176.64	0.26	-0.26	-0.27	
6,333.00	6.66	103.88	6,316.78	-156.62	276.34	180.16	0.31	0.30	-0.71	
6,428.00	6.98	102.19	6,411.11	-159.16	287.33	183.65	0.40	0.34	-1.78	
6,523.00	7.13	102.74	6,505.39	-161.68	298.72	187.15	0.17	0.16	0.58	
6,618.00	7.14	101.78	6,599.66	-164.19	310.25	190.65	0.13	0.01	-1.01	
6,712.00	6.99	100.45	6,692.94	-166.42	321.59	193.87	0.24	-0.16	-1.41	
6,806.00	7.27	100.19	6,786.21	-168.51	333.07	196.95	0.30	0.30	-0.28	
6,900.00	7.19	100.31	6,879.47	-170.61	344.71	200.06	0.09	-0.09	0.13	
6,994.00	7.25	101.06	6,972.72	-172.80	356.32	203.26	0.12	0.06	0.80	
7,088.00	7.14	102.29	7,065.98	-175.18	367.85	206.64	0.20	-0.12	1.31	
7,183.00	6.99	101.89	7,160.26	-177.63	379.28	210.07	0.17	-0.16	-0.42	
7,277.00	6.85	102.28	7,253.58	-180.00	390.35	213.40	0.16	-0.15	0.41	
7,371.00	6.68	103.93	7,346.92	-182.51	401.14	216.84	0.27	-0.18	1.76	
7,465.00	6.58	104.05	7,440.29	-185.13	411.67	220.38	0.11	-0.11	0.13	
7,557.00	6.56	105.43	7,531.69	-187.81	421.85	223.93	0.17	-0.02	1.50	
7,651.00	6.63	105.34	7,625.07	-190.68	432.26	227.70	0.08	0.07	-0.10	
7,745.00	6.46	104.89	7,718.45	-193.47	442.60	231.38	0.19	-0.18	-0.48	
7,840.00	6.65	104.58	7,812.83	-196.23	453.09	235.05	0.20	0.20	-0.33	
7,934.00	6.58	104.88	7,906.21	-198.98	463.56	238.70	0.08	-0.07	0.32	
8,029.00	6.13	99.39	8,000.62	-201.21	473.83	241.82	0.80	-0.47	-5.78	
8,123.00	5.78	95.87	8,094.12	-202.51	483.49	243.96	0.54	-0.37	-3.74	
8,217.00	5.69	97.45	8,187.65	-203.60	492.81	245.86	0.19	-0.10	1.68	
8,311.00	5.26	99.69	8,281.22	-204.93	501.68	247.96	0.51	-0.46	2.38	
8,405.00	5.18	102.37	8,374.83	-206.56	510.07	250.32	0.27	-0.09	2.85	
8,500.00	4.82	103.56	8,469.47	-208.42	518.14	252.87	0.39	-0.38	1.25	
8,594.00	4.34	107.68	8,563.17	-210.42	525.37	255.50	0.62	-0.51	4.38	
8,690.00	4.12	106.91	8,658.90	-212.53	532.13	258.19	0.24	-0.23	-0.80	
8,785.00	3.78	100.40	8,753.68	-214.09	538.48	260.29	0.59	-0.36	-6.85	
8,879.00	3.96	88.88	8,847.47	-214.58	544.77	261.34	0.85	0.19	-12.26	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,974.00	4.89	78.81	8,942.18	-213.73	552.02	261.12	1.27	0.98	-10.60
9,068.00	5.73	77.56	9,035.78	-211.94	560.53	260.09	0.90	0.89	-1.33
9,162.00	7.02	77.85	9,129.20	-209.72	570.73	258.76	1.37	1.37	0.31
9,254.00	7.20	79.61	9,220.49	-207.50	581.90	257.53	0.31	0.20	1.91
9,348.00	8.25	82.24	9,313.63	-205.53	594.38	256.65	1.18	1.12	2.80
9,443.00	9.03	93.52	9,407.56	-205.07	608.57	257.43	1.96	0.82	11.87
9,537.00	8.79	97.76	9,500.43	-206.49	623.05	260.11	0.74	-0.26	4.51
9,632.00	7.98	98.31	9,594.41	-208.42	636.77	263.23	0.86	-0.85	0.58
9,726.00	7.14	99.78	9,687.59	-210.36	648.98	266.23	0.92	-0.89	1.56
9,822.00	6.58	101.06	9,782.91	-212.43	660.26	269.27	0.60	-0.58	1.33
9,916.00	6.29	104.37	9,876.32	-214.74	670.53	272.47	0.50	-0.31	3.52
10,011.00	5.67	105.30	9,970.80	-217.27	680.10	275.83	0.66	-0.65	0.98
10,106.00	5.36	99.27	10,065.36	-219.22	689.01	278.55	0.69	-0.33	-6.35
10,200.00	4.98	104.42	10,158.98	-220.94	697.29	280.99	0.64	-0.40	5.48
10,295.00	4.95	103.61	10,253.62	-222.93	705.27	283.67	0.08	-0.03	-0.85
10,389.00	4.78	103.04	10,347.28	-224.77	713.03	286.18	0.19	-0.18	-0.61
10,484.00	4.59	108.36	10,441.96	-226.86	720.49	288.92	0.50	-0.20	5.60
10,553.00	4.65	111.92	10,510.74	-228.78	725.71	291.28	0.42	0.09	5.16
10,714.00	3.81	114.94	10,671.30	-233.47	736.61	296.90	0.54	-0.52	1.88
10,808.00	4.19	98.34	10,765.07	-235.28	742.84	299.26	1.29	0.40	-17.66
10,903.00	3.09	103.41	10,859.88	-236.38	748.76	300.87	1.21	-1.16	5.34
10,997.00	2.58	128.16	10,953.77	-238.28	752.89	303.11	1.40	-0.54	26.33
11,091.00	3.10	127.61	11,047.65	-241.13	756.57	306.28	0.55	0.55	-0.59
11,140.00	3.39	118.01	11,096.58	-242.62	758.90	307.97	1.25	0.59	-19.59
11,186.00	4.41	117.21	11,142.47	-244.07	761.67	309.65	2.22	2.22	-1.74
11,230.00	5.55	115.39	11,186.30	-245.76	765.10	311.63	2.62	2.59	-4.14
11,281.00	7.48	120.21	11,236.97	-248.48	770.20	314.80	3.93	3.78	9.45
11,318.00	10.94	125.89	11,273.49	-251.75	775.12	318.48	9.66	9.35	15.35
11,343.00	13.43	133.15	11,297.93	-255.13	779.16	322.20	11.68	9.96	29.04
11,375.00	15.84	139.05	11,328.89	-260.97	784.74	328.51	8.85	7.53	18.44
11,406.00	19.30	145.78	11,358.44	-268.41	790.40	336.41	12.93	11.16	21.71
11,438.00	23.71	151.61	11,388.21	-278.45	796.43	346.93	15.30	13.78	18.22
11,469.00	26.98	152.89	11,416.22	-290.19	802.60	359.17	10.69	10.55	4.13
11,501.00	29.66	154.95	11,444.39	-303.83	809.26	373.34	8.91	8.37	6.44
11,532.00	32.24	156.51	11,470.97	-318.36	815.81	388.39	8.72	8.32	5.03
11,546.00	33.09	158.03	11,482.76	-325.33	818.73	395.59	8.45	6.08	10.88
Wellpath Crosses Unit Line @ Heel									
11,564.00	34.21	159.89	11,497.74	-334.64	822.30	405.18	8.45	6.22	10.32
11,595.00	36.23	163.76	11,523.07	-351.63	827.86	422.58	9.71	6.52	12.48
11,627.00	38.34	167.08	11,548.53	-370.38	832.73	441.69	9.11	6.59	10.37
11,659.00	40.68	170.32	11,573.22	-390.34	836.70	461.92	9.74	7.31	10.12
11,690.00	43.35	172.49	11,596.25	-410.86	839.79	482.62	9.80	8.61	7.00
11,722.00	46.18	174.84	11,618.97	-433.25	842.27	505.15	10.24	8.84	7.34

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,753.00	48.90	176.04	11,639.90	-456.04	844.08	528.01	9.23	8.77	3.87
11,784.00	51.74	177.18	11,659.69	-479.86	845.49	551.86	9.59	9.16	3.68
11,815.00	54.60	178.04	11,678.27	-504.65	846.52	576.64	9.49	9.23	2.77
11,847.00	59.30	178.21	11,695.72	-531.45	847.39	603.42	14.69	14.69	0.53
11,893.00	66.79	179.80	11,716.55	-572.41	848.09	644.29	16.57	16.28	3.46
11,924.00	69.86	180.05	11,728.00	-601.22	848.12	672.99	9.93	9.90	0.81
11,955.00	72.99	180.35	11,737.88	-630.60	848.02	702.25	10.14	10.10	0.97
11,979.00	74.68	180.95	11,744.56	-653.65	847.76	725.19	7.43	7.03	2.51
PLU 15 TWR 108H FTP_330FNL_330FEL									
11,981.00	74.82	181.00	11,745.08	-655.58	847.72	727.10	7.43	7.03	2.48
Wellpath Crosses FTP									
11,987.00	75.24	181.15	11,746.63	-661.37	847.62	732.87	7.43	7.03	2.48
12,018.00	76.89	181.61	11,754.10	-691.45	846.89	762.77	5.51	5.32	1.48
12,050.00	80.91	181.65	11,760.26	-722.83	846.00	793.95	12.56	12.56	0.12
12,082.00	85.03	182.88	11,764.17	-754.56	844.74	825.45	13.43	12.87	3.84
12,113.00	86.80	183.00	11,766.38	-785.44	843.15	856.07	5.72	5.71	0.39
12,143.90	88.47	182.01	11,767.66	-816.28	841.81	886.67	6.28	5.40	-3.19
PLU 15 TWR 108H LP p1 (~163'PastFTP)									
12,207.00	91.88	180.00	11,767.47	-879.36	840.70	949.42	6.28	5.40	-3.19
12,302.00	89.94	177.87	11,765.96	-974.32	842.46	1,044.17	3.03	-2.04	-2.24
12,396.00	88.99	176.48	11,766.83	-1,068.20	847.09	1,138.09	1.79	-1.01	-1.48
12,490.00	89.08	179.68	11,768.42	-1,162.12	850.24	1,231.93	3.41	0.10	3.40
12,585.00	90.17	179.20	11,769.04	-1,257.11	851.17	1,326.64	1.25	1.15	-0.51
12,679.00	90.00	177.29	11,768.90	-1,351.06	854.05	1,420.48	2.04	-0.18	-2.03
12,774.00	90.45	176.83	11,768.53	-1,445.94	858.92	1,515.42	0.68	0.47	-0.48
12,868.00	90.28	175.83	11,767.93	-1,539.74	864.94	1,609.39	1.08	-0.18	-1.06
12,962.00	89.83	175.46	11,767.84	-1,633.47	872.08	1,703.39	0.62	-0.48	-0.39
13,057.00	88.51	178.35	11,769.21	-1,728.31	877.21	1,798.31	3.34	-1.39	3.04
13,150.00	88.57	178.45	11,771.58	-1,821.24	879.80	1,891.12	0.13	0.06	0.11
13,243.00	88.49	177.64	11,773.97	-1,914.15	882.97	1,983.95	0.87	-0.09	-0.87
13,338.00	88.74	177.38	11,776.27	-2,009.04	887.10	2,078.83	0.38	0.26	-0.27
13,432.00	88.99	176.35	11,778.13	-2,102.88	892.24	2,172.76	1.13	0.27	-1.10
13,526.00	87.84	178.89	11,780.73	-2,196.75	896.14	2,266.62	2.97	-1.22	2.70
13,620.00	89.13	181.78	11,783.21	-2,290.70	895.59	2,360.16	3.37	1.37	3.07
13,714.00	90.98	182.79	11,783.12	-2,384.62	891.84	2,453.40	2.24	1.97	1.07
13,808.00	92.21	181.78	11,780.51	-2,478.51	888.10	2,546.60	1.69	1.31	-1.07
13,902.00	90.76	180.17	11,778.07	-2,572.46	886.50	2,640.05	2.30	-1.54	-1.71
13,997.00	90.39	179.48	11,777.12	-2,667.45	886.79	2,734.71	0.82	-0.39	-0.73
14,091.00	90.25	179.81	11,776.59	-2,761.45	887.37	2,828.39	0.38	-0.15	0.35
14,186.00	90.22	179.66	11,776.20	-2,856.45	887.81	2,923.07	0.16	-0.03	-0.16
14,280.00	89.78	180.19	11,776.20	-2,950.45	887.93	3,016.72	0.73	-0.47	0.56
14,374.00	88.88	180.34	11,777.30	-3,044.44	887.50	3,110.31	0.97	-0.96	0.16
14,468.00	91.01	180.52	11,777.39	-3,138.43	886.79	3,203.88	2.27	2.27	0.19
14,562.00	89.94	179.93	11,776.61	-3,232.43	886.42	3,297.49	1.30	-1.14	-0.63

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,657.00	87.95	179.30	11,778.36	-3,327.40	887.06	3,392.16	2.20	-2.09	-0.66
14,751.00	89.47	179.40	11,780.48	-3,421.37	888.13	3,485.86	1.62	1.62	0.11
14,846.00	90.76	180.40	11,780.29	-3,516.37	888.29	3,580.51	1.72	1.36	1.05
14,940.00	91.12	180.23	11,778.75	-3,610.35	887.78	3,674.09	0.42	0.38	-0.18
15,034.00	91.12	179.95	11,776.91	-3,704.33	887.63	3,767.70	0.30	0.00	-0.30
15,128.00	90.87	179.01	11,775.28	-3,798.31	888.48	3,861.39	1.03	-0.27	-1.00
15,222.00	90.11	178.37	11,774.47	-3,892.28	890.63	3,955.19	1.06	-0.81	-0.68
15,316.00	89.86	178.18	11,774.50	-3,986.24	893.46	4,049.04	0.33	-0.27	-0.20
15,410.00	89.50	177.30	11,775.02	-4,080.17	897.17	4,142.93	1.01	-0.38	-0.94
15,505.00	88.80	177.96	11,776.43	-4,175.07	901.10	4,237.81	1.01	-0.74	0.69
15,598.00	89.05	178.85	11,778.18	-4,268.02	903.68	4,330.63	0.99	0.27	0.96
15,693.00	88.09	178.79	11,780.55	-4,362.97	905.64	4,425.39	1.01	-1.01	-0.06
15,787.00	89.64	181.50	11,782.41	-4,456.94	905.40	4,518.98	3.32	1.65	2.88
15,881.00	88.37	180.33	11,784.04	-4,550.91	903.90	4,612.46	1.84	-1.35	-1.24
15,976.00	91.09	181.90	11,784.49	-4,645.88	902.05	4,706.90	3.31	2.86	1.65
16,071.00	91.43	181.46	11,782.40	-4,740.81	899.27	4,801.23	0.59	0.36	-0.46
16,165.00	92.10	181.16	11,779.50	-4,834.74	897.12	4,894.62	0.78	0.71	-0.32
16,260.00	90.45	181.08	11,777.39	-4,929.70	895.26	4,989.05	1.74	-1.74	-0.08
16,354.00	88.43	180.19	11,778.31	-5,023.68	894.22	5,082.58	2.35	-2.15	-0.95
16,449.00	90.31	181.31	11,779.35	-5,118.66	892.98	5,177.09	2.30	1.98	1.18
16,543.00	90.28	180.33	11,778.87	-5,212.65	891.63	5,270.60	1.04	-0.03	-1.04
16,637.00	88.99	179.56	11,779.47	-5,306.65	891.72	5,364.25	1.60	-1.37	-0.82
16,731.00	89.27	178.93	11,780.90	-5,400.63	892.96	5,457.98	0.73	0.30	-0.67
16,824.00	89.44	178.24	11,781.94	-5,493.59	895.26	5,550.79	0.76	0.18	-0.74
16,919.00	88.66	178.00	11,783.52	-5,588.53	898.37	5,645.63	0.86	-0.82	-0.25
17,013.00	90.11	180.23	11,784.53	-5,682.50	899.83	5,739.37	2.83	1.54	2.37
17,107.00	91.09	179.87	11,783.54	-5,776.50	899.74	5,833.00	1.11	1.04	-0.38
17,201.00	90.59	179.10	11,782.16	-5,870.48	900.59	5,926.70	0.98	-0.53	-0.82
17,295.00	90.87	178.71	11,780.97	-5,964.46	902.38	6,020.47	0.51	0.30	-0.41
17,388.00	89.97	178.04	11,780.29	-6,057.41	905.02	6,113.31	1.21	-0.97	-0.72
17,481.00	89.86	177.08	11,780.42	-6,150.33	908.98	6,206.21	1.04	-0.12	-1.03
17,575.00	88.46	177.66	11,781.80	-6,244.22	913.29	6,300.12	1.61	-1.49	0.62
17,670.00	88.40	177.76	11,784.40	-6,339.11	917.09	6,394.98	0.12	-0.06	0.11
17,689.00	88.43	177.89	11,784.93	-6,358.08	917.81	6,413.95	0.70	0.16	0.68
17,783.00	89.16	179.05	11,786.91	-6,452.03	920.32	6,507.75	1.46	0.78	1.23
17,877.00	89.22	178.59	11,788.24	-6,546.00	922.25	6,601.53	0.49	0.06	-0.49
17,971.00	88.12	179.15	11,790.42	-6,639.95	924.11	6,695.29	1.31	-1.17	0.60
18,065.00	88.38	179.75	11,793.29	-6,733.90	925.01	6,788.96	0.70	0.28	0.64
18,159.00	92.21	182.49	11,792.80	-6,827.86	923.17	6,882.39	5.01	4.07	2.91
18,253.00	91.99	182.19	11,789.36	-6,921.72	919.34	6,975.56	0.40	-0.23	-0.32
18,346.00	90.64	181.93	11,787.23	-7,014.63	916.00	7,067.82	1.48	-1.45	-0.28
18,441.00	90.67	181.08	11,786.14	-7,109.59	913.50	7,162.20	0.90	0.03	-0.89
18,535.00	93.78	180.87	11,782.49	-7,203.49	911.90	7,255.61	3.32	3.31	-0.22

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 15 TWIN WELLS RANCH 108H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
18,628.00	92.49	180.41	11,777.40	-7,296.35	910.87	7,348.02	1.47	-1.39	-0.49	
18,721.00	92.55	180.62	11,773.32	-7,389.25	910.03	7,440.50	0.23	0.06	0.23	
18,814.00	91.82	180.28	11,769.77	-7,482.18	909.30	7,533.01	0.87	-0.78	-0.37	
18,908.00	91.12	179.98	11,767.36	-7,576.15	909.09	7,626.60	0.81	-0.74	-0.32	
19,001.00	91.34	180.13	11,765.36	-7,669.13	909.00	7,719.21	0.29	0.24	0.16	
19,095.00	90.87	179.87	11,763.55	-7,763.11	909.00	7,812.83	0.57	-0.50	-0.28	
19,189.00	91.06	179.93	11,761.97	-7,857.10	909.16	7,906.48	0.21	0.20	0.06	
19,282.00	92.21	180.28	11,759.31	-7,950.06	908.99	7,999.07	1.29	1.24	0.38	
19,374.00	90.84	180.63	11,756.86	-8,042.02	908.26	8,090.61	1.54	-1.49	0.38	
19,468.00	90.67	180.96	11,755.63	-8,136.00	906.96	8,184.12	0.39	-0.18	0.35	
19,562.00	89.38	180.67	11,755.58	-8,229.99	905.62	8,277.64	1.41	-1.37	-0.31	
19,655.00	87.98	180.47	11,757.73	-8,322.96	904.70	8,370.17	1.52	-1.51	-0.22	
19,750.00	86.81	179.96	11,762.04	-8,417.86	904.34	8,464.67	1.34	-1.23	-0.54	
19,843.00	87.70	178.69	11,766.50	-8,510.74	905.43	8,557.30	1.67	0.96	-1.37	
19,936.00	89.19	177.35	11,769.02	-8,603.65	908.65	8,650.13	2.15	1.60	-1.44	
19,954.00	89.44	177.16	11,769.24	-8,621.63	909.51	8,668.11	1.74	1.39	-1.06	
20,048.00	89.78	176.65	11,769.88	-8,715.49	914.58	8,762.06	0.65	0.36	-0.54	
20,140.00	89.24	175.98	11,770.66	-8,807.29	920.50	8,854.03	0.94	-0.59	-0.73	
20,217.00	90.22	177.25	11,771.03	-8,884.15	925.04	8,931.00	2.08	1.27	1.65	
20,311.00	89.75	177.13	11,771.05	-8,978.04	929.65	9,024.93	0.52	-0.50	-0.13	
20,405.00	90.42	179.60	11,770.91	-9,071.99	932.33	9,118.76	2.72	0.71	2.63	
20,498.00	90.70	180.45	11,770.00	-9,164.99	932.29	9,211.39	0.96	0.30	0.91	
20,592.00	90.50	179.39	11,769.02	-9,258.98	932.42	9,305.04	1.15	-0.21	-1.13	
20,685.00	90.22	179.23	11,768.43	-9,351.97	933.54	9,397.77	0.35	-0.30	-0.17	
20,779.00	90.64	180.88	11,767.73	-9,445.97	933.45	9,491.40	1.81	0.45	1.76	
20,872.00	89.66	180.43	11,767.49	-9,538.96	932.39	9,583.94	1.16	-1.05	-0.48	
20,966.00	90.53	181.98	11,767.33	-9,632.94	930.41	9,677.39	1.89	0.93	1.65	
21,059.00	90.98	182.04	11,766.10	-9,725.87	927.15	9,769.68	0.49	0.48	0.06	
21,152.00	90.90	181.87	11,764.58	-9,818.80	923.98	9,861.98	0.20	-0.09	-0.18	
21,246.00	90.62	181.84	11,763.33	-9,912.75	920.94	9,955.30	0.30	-0.30	-0.03	
21,340.00	90.22	180.81	11,762.64	-10,006.72	918.76	10,048.72	1.18	-0.43	-1.10	
21,434.00	90.03	179.81	11,762.44	-10,100.71	918.25	10,142.31	1.08	-0.20	-1.06	
21,528.00	90.14	179.28	11,762.30	-10,194.71	919.00	10,236.02	0.58	0.12	-0.56	
21,622.00	90.22	178.55	11,762.00	-10,288.69	920.78	10,329.80	0.78	0.09	-0.78	
21,716.00	90.34	178.67	11,761.54	-10,382.66	923.06	10,423.61	0.18	0.13	0.13	
21,811.00	90.00	178.28	11,761.26	-10,477.63	925.59	10,518.43	0.54	-0.36	-0.41	
21,892.00	89.49	177.66	11,761.62	-10,558.58	928.46	10,599.32	0.99	-0.63	-0.77	
Wellpath Crosses LTP										
21,892.33	89.49	177.66	11,761.62	-10,558.91	928.47	10,599.65	0.00	0.00	0.00	
PLU 15 TWR 108H LTP_330FSL_330FEL										
21,905.00	89.41	177.56	11,761.75	-10,571.56	929.00	10,612.31	1.02	-0.64	-0.79	
21,968.00	89.47	177.50	11,762.36	-10,634.50	931.72	10,675.24	0.13	0.10	-0.10	
22,022.00	89.47	177.50	11,762.86	-10,688.45	934.07	10,729.19	0.00	0.00	0.00	
TD @ 200'FSL,332FEL - PLU 15 TWR 108H PBHL_200FSL_330FEL										

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Site:	PLU 15 TWIN WELLS RANCH	MD Reference:	3567+32 @ 3599.00usft (Pat793ad)
Well:	PLU 15 TWIN WELLS RANCH 108H	North Reference:	Grid
Wellbore:	15-108H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	15-108H Lateral AsDrilled	Database:	PREDATOR_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 15 TWR 108H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	440,914.40	677,155.70	32.21089318	-103.76054279
PLU 15 TWR 108H LTP - actual wellpath misses target center by 20.84usft at 21892.33usft MD (11761.62 TVD, -10558.91 N, 928.47 E) - Point	0.00	0.00	11,742.00	-10,558.80	935.50	430,355.60	678,091.20	32.18185469	-103.75770095
PLU 15 TWR 108H FTF - actual wellpath misses target center by 26.49usft at 11979.00usft MD (11744.56 TVD, -653.65 N, 847.76 E) - Point	0.00	0.00	11,742.00	-654.70	874.10	440,259.70	678,029.80	32.20908067	-103.75772805
PLU 15 TWR 108H PBH - actual wellpath misses target center by 4.46usft at 22022.00usft MD (11762.86 TVD, -10688.45 N, 934.07 E) - Rectangle (sides W100.00 H10,034.19 D0.00)	0.00	0.01	11,759.00	-10,688.70	936.30	430,225.70	678,092.00	32.18149760	-103.75770061
PLU 15 TWR 108H BHL - actual wellpath hits target center - Point	0.00	0.01	11,762.86	-10,688.45	934.07	430,225.95	678,089.77	32.18149832	-103.75770782

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,546.00	11,482.76	-325.33	818.73	Wellpath Crosses Unit Line @ Heel
11,981.00	11,745.08	-655.58	847.72	Wellpath Crosses FTP
21,892.00	11,761.62	-10,558.58	928.46	Wellpath Crosses LTP
22,022.00	11,762.86	-10,688.45	934.07	TD @ 200'FSL,332FEL

Checked By: _____	Approved By: _____	Date: _____
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTEMNRD-OCD ARTESIA
REC'D: 6/02/2020FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other				5. Lease Serial No. NMNM0506A	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____				6. If Indian, Allottee or Tribe Name	
2. Name of Operator XTO PERMIAN OPERATING LLC E-Mail: Melanie_Collins@xtoenergy.com				7. Unit or CA Agreement Name and No.	
3. Address 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707				8. Lease Name and Well No. POKER LAKE UNIT 15 TWR 108H	
3a. Phone No. (include area code) Ph: 432-218-3709				9. API Well No. 30-015-45452	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESE 330FSL 1200FEL 32.211017 N Lat, 103.761026 W Lon Sec 15 T24S R31E Mer NMP At top prod interval reported below SESE 330FSL 1200FEL 32.211017 N Lat, 103.761026 W Lon Sec 27 T24S R31E Mer NMP At total depth SESE 200FSL 332FEL 32.181622 N Lat, 103.758189 W Lon				10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP	
14. Date Spudded 08/08/2019				11. Sec., T., R., M., or Block and Survey or Area Sec 15 T24S R31E Mer NMP	
15. Date T.D. Reached 10/03/2019				12. County or Parish EDDY	
16. Date Completed ☐ D & A ☒ Ready to Prod. 02/07/2020				13. State NM	
17. Elevations (DF, KB, RT, GL)* 3567 GL					
18. Total Depth: MD 22022 TVD 11763		19. Plug Back T.D.: MD 22004 TVD 11763		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RCB/GR/CCL				22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
18.500	16.000 J-55	75.0	0	893		745	206	0	157
14.750	11.750 J-55	54.0	0	4425		1695	465	0	151
10.625	8.625 HCL-80	32.0	0	10619		2000	638	0	190
7.875	5.500 CYP-110	23.0	0	22006		2835	658	0	45

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	11161	11200						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12084	21832	12084 TO 21832	4.000	2349	ACTIVE/PRODUCING
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12084 TO 21832	522,326 BBLS OF FLUID AND 24,535,136 LBS PROPPANT

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/08/2020	02/26/2020	24		2289.0	5826.0	5990.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. 978 SI	Csg. Press. 8.0	24 Hr. Rate	Oil BBL 2289	Gas MCF 5826	Water BBL 5990	Gas:Oil Ratio 2545	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #517496 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers
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Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	696	1055	SAND, ANHYDRITE, WTR	RUSTLER	696
TOP SALT	1055	4239	SALT	TOP SALT	1055
BASE SALT	4239	4463	SALT	BASE SALT	4239
DELAWARE	4463	8315	SHALE, SAND; OIL, GAS, WTR	DELAWARE	4463
BONE SPRING	8315	11654	SAND, LIME; OIL, GAS, WTR	BONE SPRING	8315
WOLFCAMP	11654	11763	SHALE; OIL, GAS, WTR	WOLFCAMP	11654

32. Additional remarks (include plugging procedure):
 KOP 11144 ft

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):
Electronic Submission #517496 Verified by the BLM Well Information System.
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad

Name (<i>please print</i>) <u>MELANIE COLLINS</u>	Title <u>REGULATORY ANALYST</u>
Signature _____ (Electronic Submission)	Date <u>06/02/2020</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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