

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

EMNRD-OCD ARTESIA
REC'D: 7/2/2020

Form C-102

Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

¹ API Number 30-015-45846	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 325339	⁵ Property Name POKER LAKE UNIT 25 BD	⁶ Well Number 102H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,343'

¹⁰ Surface Location

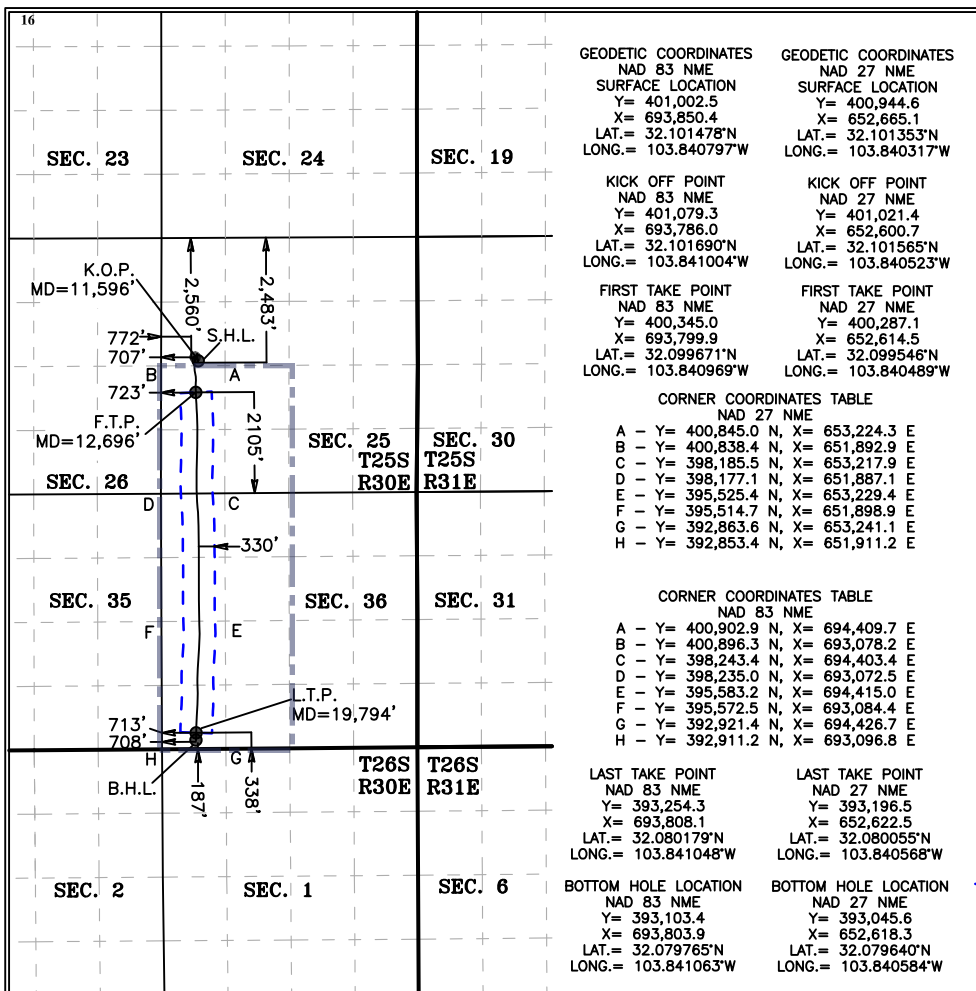
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	25 S	30 E		2,560	NORTH	772	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	25 S	30 E		187	SOUTH	708	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Cheryl Rowell Date: 6/26/20

Printed Name: Cheryl Rowell

E-mail Address: cheryl_rowell@xtoenergy.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06-26-2020

Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



RR 2018010047

RWP 7/10/2020

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)

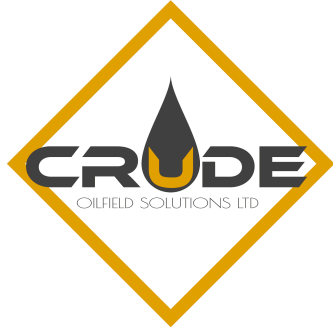
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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



Crude Oilfield Solutions
11767 Katy Fwy Ste. 420
Houston, TX 77079
P: 832-338-9496

To: New Mexico Energy, Minerals and
Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505 (505) 476-3220

Re: Certified Survey Report / **POKER LAKE UNIT 25 BD 102-152H/ 30-015-45846**

Via: Electronic Filing

Crude Oilfield Solutions, respectfully submits for filing the required directional certified survey performed on the referenced well by Crude Oilfield Solutions. Other information required by your office is as follows:

<u>Name & Title of Supervisor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Nicholas Flores MWD Coordinator	211' to 19945'	9-21-19 TO 10-20-19	MWD

The directional MWD surveys performed by Crude Oilfield Solutions are attached.

Please file this certified survey report. If there are any questions or additional data required, please let me know at your earliest opportunity.

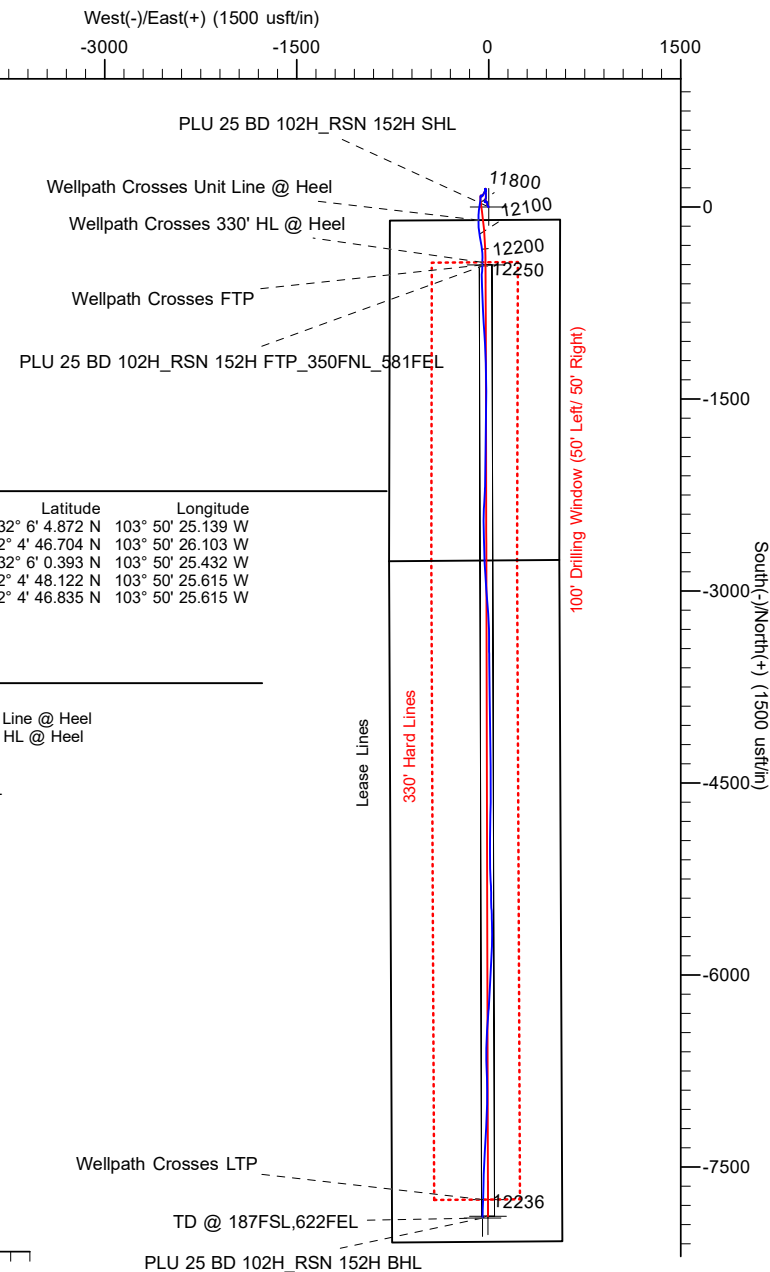
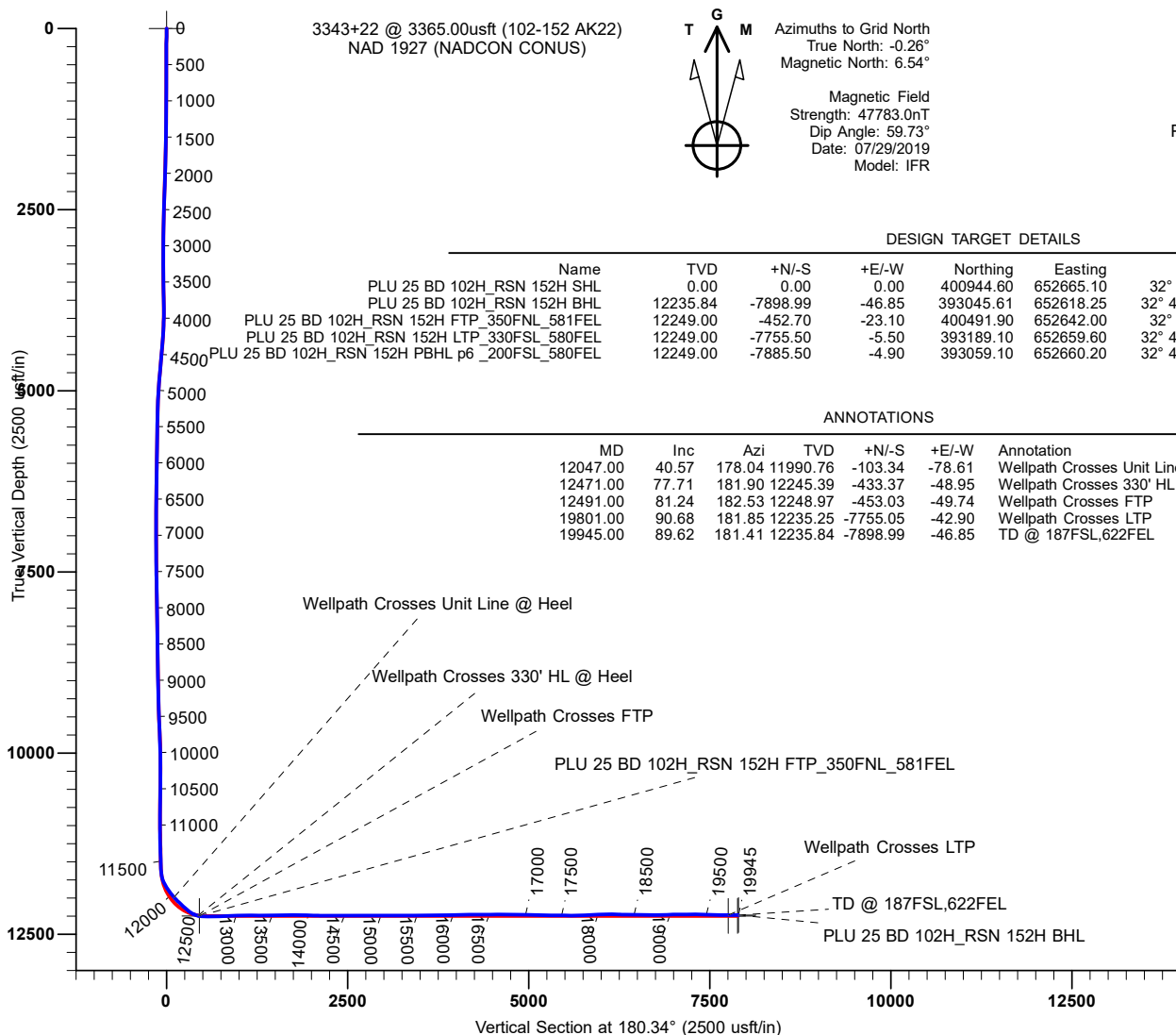
Thank You

Sincerely,

Nicholas A. Flores

Nicholas Flores
MWD Manager

Project: Eddy County, NM (NMEZ) NAD27 Grid
Site: Poker Lake Unit 25 BD
Well: PLU 25 BD 102H_RSN 152H
Wellbore: 102H-152H
Design: 102H-152H AsDrilled



To convert a Magnetic Direction to a Grid Direction, Add 6.54°
Magnetic North is 6.54° East of Grid North (Magnetic Convergence)
Magnetic North is 6.80° East of True North (Magnetic Declination)



Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_EDM

Project	Eddy County, NM (NMEZ) NAD27 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	Poker Lake Unit 25 BD			
Site Position:		Northing:	400,979.50 usft	Latitude: 32° 6' 5.217 N
From:	Map	Easting:	652,664.90 usft	Longitude: 103° 50' 25.140 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: 0.26 °

Well	PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL			
Well Position	+N/-S	0.00 usft	Northing:	400,944.60 usft
	+E/-W	0.00 usft	Easting:	652,665.10 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Ground Level:	3,343.00 usft

Wellbore	102H-152H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	07/29/19	6.80	59.73	47,783.00000000

Design	102H-152H AsDrilled			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.34

Survey Program	Date	10/23/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
117.00	11,483.00	Survey #1 (102H-152H)	MWD	OWSG MWD - Standard
11,604.00	19,900.00	Survey #2 (102H-152H)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
19,945.00	19,945.00	Survey #3 (102H-152H)	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 25 BD 102H_RSN 152H SHL										
117.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00	0.00	
211.00	0.09	317.63	211.00	0.05	-0.05	-0.05	0.10	0.10	0.00	
302.00	0.13	321.50	302.00	0.19	-0.16	-0.19	0.04	0.04	4.25	
390.00	0.18	13.27	390.00	0.40	-0.19	-0.40	0.16	0.06	58.83	
480.00	0.40	8.79	480.00	0.85	-0.11	-0.85	0.25	0.24	-4.98	
569.00	0.53	317.63	569.00	1.46	-0.34	-1.46	0.47	0.15	-57.48	

Survey Report

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Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)	
658.00	0.66	325.28	657.99	2.19	-0.91	-2.18	0.17	0.15	8.60	
753.00	0.53	298.65	752.99	2.85	-1.61	-2.84	0.32	-0.14	-28.03	
848.00	0.84	242.05	847.98	2.73	-2.61	-2.71	0.74	0.33	-59.58	
943.00	0.79	245.21	942.97	2.13	-3.82	-2.11	0.07	-0.05	3.33	
1,038.00	0.44	239.32	1,037.96	1.67	-4.73	-1.64	0.37	-0.37	-6.20	
1,165.00	0.53	356.57	1,164.96	2.01	-5.18	-1.98	0.65	0.07	92.32	
1,229.00	0.97	355.78	1,228.96	2.84	-5.24	-2.81	0.69	0.69	-1.23	
1,324.00	1.19	352.79	1,323.94	4.62	-5.42	-4.59	0.24	0.23	-3.15	
1,419.00	1.10	337.32	1,418.92	6.44	-5.90	-6.41	0.34	-0.09	-16.28	
1,514.00	1.19	339.96	1,513.90	8.21	-6.59	-8.17	0.11	0.09	2.78	
1,609.00	1.14	318.60	1,608.88	9.85	-7.55	-9.80	0.46	-0.05	-22.48	
1,703.00	1.32	338.99	1,702.86	11.56	-8.56	-11.51	0.50	0.19	21.69	
1,797.00	1.54	346.81	1,796.83	13.80	-9.23	-13.74	0.31	0.23	8.32	
1,891.00	1.49	344.35	1,890.80	16.21	-9.85	-16.15	0.09	-0.05	-2.62	
1,985.00	1.71	347.61	1,984.76	18.75	-10.48	-18.69	0.25	0.23	3.47	
2,079.00	1.71	344.18	2,078.72	21.47	-11.17	-21.40	0.11	0.00	-3.65	
2,172.00	1.54	357.27	2,171.68	24.05	-11.60	-23.99	0.44	-0.18	14.08	
2,266.00	1.89	354.90	2,265.64	26.86	-11.80	-26.79	0.38	0.37	-2.52	
2,360.00	2.24	359.65	2,359.58	30.24	-11.95	-30.17	0.41	0.37	5.05	
2,454.00	2.42	343	2,453.50	34.06	-11.84	-33.99	0.25	0.19	4.02	
2,548.00	2.33	334.51	2,547.43	37.77	-12.55	-37.69	1.26	-0.10	-30.77	
2,642.00	1.80	287.05	2,641.37	39.92	-14.78	-39.83	1.84	-0.56	-50.49	
2,735.00	2.02	280.81	2,734.32	40.66	-17.79	-40.55	0.33	0.24	-6.71	
2,829.00	2.29	282.74	2,828.25	41.38	-21.25	-41.26	0.30	0.29	2.05	
2,923.00	2.24	288.28	2,922.18	42.37	-24.82	-42.23	0.24	-0.05	5.89	
3,017.00	2.42	289.25	3,016.10	43.60	-28.44	-43.43	0.20	0.19	1.03	
3,110.00	1.27	274.13	3,109.05	44.33	-31.32	-44.14	1.33	-1.24	-16.26	
3,204.00	0.53	219.37	3,203.04	44.06	-32.64	-43.87	1.12	-0.79	-58.26	
3,298.00	0.09	180.61	3,297.04	43.65	-32.91	-43.46	0.49	-0.47	-41.23	
3,392.00	0.53	117.68	3,391.04	43.38	-32.53	-43.19	0.53	0.47	-66.95	
3,486.00	0.92	127.97	3,485.03	42.71	-31.55	-42.52	0.44	0.41	10.95	
3,602.00	1.10	129.55	3,601.01	41.43	-29.96	-41.25	0.16	0.16	1.36	
3,673.00	1.49	131.13	3,671.99	40.39	-28.73	-40.22	0.55	0.55	2.23	
3,767.00	2.15	135.96	3,765.95	38.32	-26.59	-38.16	0.72	0.70	5.14	
3,861.00	0.97	146.07	3,859.91	36.39	-24.92	-36.24	1.28	-1.26	10.76	
3,940.00	0.48	6.94	3,938.91	36.16	-24.51	-36.02	1.73	-0.62	-176.11	
4,055.00	1.49	3.16	4,053.89	38.14	-24.36	-37.99	0.88	0.88	-3.29	
4,149.00	2.55	358.15	4,147.83	41.45	-24.37	-41.30	1.14	1.13	-5.33	
4,242.00	3.96	2.99	4,240.68	46.72	-24.26	-46.58	1.54	1.52	5.20	
4,336.00	5.01	5.54	4,334.39	54.05	-23.70	-53.91	1.14	1.12	2.71	
4,430.00	5.10	5.18	4,428.02	62.29	-22.93	-62.16	0.10	0.10	-0.38	
4,525.00	5.14	4.22	4,522.64	70.74	-22.23	-70.61	0.10	0.04	-1.01	
4,620.00	5.01	3.34	4,617.27	79.13	-21.68	-79.00	0.16	-0.14	-0.93	

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)
4,714.00	5.19	1.84	4,710.90	87.48	-21.30	-87.35	0.24	0.19	-1.60
4,809.00	5.19	1.40	4,805.51	96.07	-21.06	-95.94	0.04	0.00	-0.46
4,904.00	4.18	358.42	4,900.19	103.82	-21.05	-103.70	1.09	-1.06	-3.14
4,998.00	3.47	341.19	4,993.98	109.94	-22.06	-109.81	1.43	-0.76	-18.33
5,093.00	2.64	345.94	5,088.85	114.78	-23.52	-114.64	0.91	-0.87	5.00
5,188.00	1.49	1.23	5,183.78	118.14	-24.02	-118.00	1.33	-1.21	16.09
5,282.00	1.63	12.57	5,277.75	120.67	-23.71	-120.52	0.36	0.15	12.06
5,377.00	1.49	5.01	5,372.72	123.22	-23.30	-123.08	0.26	-0.15	-7.96
5,471.00	0.92	349.45	5,466.69	125.18	-23.34	-125.04	0.69	-0.61	-16.55
5,566.00	1.01	347.96	5,561.68	126.74	-23.65	-126.60	0.10	0.09	-1.57
5,660.00	1.01	359.30	5,655.67	128.38	-23.83	-128.24	0.21	0.00	12.06
5,754.00	1.01	355.08	5,749.65	130.04	-23.91	-129.89	0.08	0.00	-4.49
5,848.00	0.79	345.41	5,843.64	131.49	-24.15	-131.34	0.28	-0.23	-10.29
5,943.00	0.97	359.21	5,938.63	132.93	-24.32	-132.78	0.29	0.19	14.53
6,037.00	0.75	354.20	6,032.62	134.33	-24.40	-134.19	0.25	-0.23	-5.33
6,131.00	0.88	351.56	6,126.61	135.66	-24.57	-135.51	0.14	0.14	-2.81
6,225.00	0.88	347.61	6,220.60	137.08	-24.83	-136.93	0.06	0.00	-4.20
6,319.00	0.84	346.02	6,314.59	138.45	-25.15	-138.30	0.05	-0.04	-1.69
6,413.00	0.75	5.18	6,408.58	139.73	-25.26	-139.58	0.30	-0.10	20.38
6,507.00	0.66	9.23	6,502.57	140.88	-25.12	-140.73	0.11	-0.10	4.31
6,602.00	0.53	3.87	6,597.57	141.86	-25.00	-141.71	0.15	-0.14	-5.64
6,696.00	0.22	6.50	6,691.56	142.47	-24.95	-142.32	0.33	-0.33	2.80
6,791.00	0.31	328.01	6,786.56	142.87	-25.06	-142.72	0.20	0.09	-40.52
6,885.00	0.18	223.86	6,880.56	142.98	-25.30	-142.83	0.42	-0.14	-110.80
6,980.00	0.18	209.00	6,975.56	142.74	-25.48	-142.59	0.05	0.00	-15.64
7,074.00	0.40	216.21	7,069.56	142.35	-25.74	-142.19	0.24	0.23	7.67
7,168.00	0.35	164.18	7,163.56	141.81	-25.86	-141.65	0.35	-0.05	-55.35
7,263.00	0.53	157.32	7,258.56	141.12	-25.61	-140.97	0.20	0.19	-7.22
7,357.00	0.48	150.64	7,352.55	140.38	-25.25	-140.23	0.08	-0.05	-7.11
7,452.00	0.70	167.96	7,447.55	139.47	-24.93	-139.32	0.30	0.23	18.23
7,546.00	0.75	157.50	7,541.54	138.34	-24.58	-138.19	0.15	0.05	-11.13
7,641.00	1.05	148.27	7,636.53	137.02	-23.88	-136.88	0.35	0.32	-9.72
7,735.00	1.19	163.30	7,730.51	135.35	-23.15	-135.21	0.34	0.15	15.99
7,829.00	1.23	164.35	7,824.49	133.45	-22.60	-133.31	0.05	0.04	1.12
8,018.00	1.14	159.52	8,013.45	129.73	-21.39	-129.60	0.07	-0.05	-2.56
8,112.00	0.79	156.09	8,107.44	128.26	-20.80	-128.14	0.38	-0.37	-3.65
8,206.00	0.66	162.33	8,201.43	127.16	-20.37	-127.03	0.16	-0.14	6.64
8,300.00	0.35	220.87	8,295.42	126.42	-20.40	-126.30	0.60	-0.33	62.28
8,394.00	0.70	225.17	8,389.42	125.80	-20.99	-125.67	0.37	0.37	4.57
8,489.00	1.10	228.34	8,484.41	124.79	-22.09	-124.65	0.42	0.42	3.34
8,584.00	1.41	236.60	8,579.39	123.54	-23.74	-123.39	0.38	0.33	8.69
8,678.00	1.45	237.13	8,673.36	122.25	-25.71	-122.10	0.04	0.04	0.56

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
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Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)	
8,774.00	1.32	231.50	8,769.33	120.91	-27.59	-120.74	0.20	-0.14	-5.86	
8,869.00	1.49	227.28	8,864.30	119.39	-29.36	-119.21	0.21	0.18	-4.44	
8,964.00	1.49	220.78	8,959.27	117.61	-31.07	-117.43	0.18	0.00	-6.84	
9,059.00	1.49	218.14	9,054.24	115.71	-32.64	-115.51	0.07	0.00	-2.78	
9,154.00	1.41	214.01	9,149.21	113.77	-34.06	-113.56	0.14	-0.08	-4.35	
9,249.00	1.49	205.75	9,244.18	111.69	-35.25	-111.47	0.24	0.08	-8.69	
9,344.00	1.80	204.78	9,339.14	109.22	-36.41	-109.00	0.33	0.33	-1.02	
9,439.00	1.76	190.28	9,434.09	106.43	-37.29	-106.21	0.47	-0.04	-15.26	
9,534.00	2.33	203.46	9,529.03	103.22	-38.32	-102.99	0.77	0.60	13.87	
9,629.00	2.90	209.18	9,623.93	99.35	-40.26	-99.11	0.66	0.60	6.02	
9,724.00	3.08	204.08	9,718.80	94.92	-42.48	-94.67	0.34	0.19	-5.37	
9,819.00	2.86	212.78	9,813.67	90.60	-44.80	-90.33	0.53	-0.23	9.16	
9,914.00	2.77	217.18	9,908.56	86.78	-47.47	-86.50	0.25	-0.09	4.63	
10,009.00	2.42	217.88	10,003.46	83.37	-50.09	-83.07	0.37	-0.37	0.74	
10,104.00	0.79	248.55	10,098.42	81.54	-51.93	-81.24	1.88	-1.72	32.28	
10,199.00	1.05	349.98	10,193.42	82.16	-52.69	-81.85	1.51	0.27	106.77	
10,294.00	0.84	357.19	10,288.40	83.72	-52.88	-83.40	0.25	-0.22	7.59	
10,388.00	0.88	17.93	10,382.39	85.09	-52.69	-84.78	0.33	0.04	22.06	
10,484.00	0.75	8.44	10,478.38	86.41	-52.37	-86.10	0.19	-0.14	-9.89	
10,578.00	0.84	349.89	10,572.37	87.70	-52.40	-87.39	0.29	0.10	-19.73	
10,671.00	0.70	323.08	10,665.37	88.83	-52.86	-88.51	0.41	-0.15	-28.83	
10,766.00	0.88	293.64	10,760.36	89.58	-53.88	-89.26	0.46	0.19	-30.99	
10,860.00	1.14	273.60	10,854.34	89.93	-55.47	-89.60	0.46	0.28	-21.32	
10,954.00	1.32	256.20	10,948.32	89.73	-57.46	-89.39	0.44	0.19	-18.51	
11,048.00	1.19	241.87	11,042.30	89.01	-59.37	-88.66	0.36	-0.14	-15.24	
11,142.00	1.19	222.71	11,136.28	87.83	-60.89	-87.47	0.42	0.00	-20.38	
11,237.00	1.41	209.44	11,231.25	86.09	-62.14	-85.72	0.39	0.23	-13.97	
11,332.00	1.98	185.27	11,326.21	83.44	-62.86	-83.07	0.95	0.60	-25.44	
11,426.00	1.67	187.64	11,420.17	80.46	-63.19	-80.09	0.34	-0.33	2.52	
11,483.00	1.36	195.20	11,477.15	78.99	-63.48	-78.61	0.65	-0.54	13.26	
11,604.00	1.13	215.15	11,598.12	76.63	-64.55	-76.24	0.40	-0.19	16.49	
11,641.00	4.42	169.55	11,635.07	74.93	-64.50	-74.54	10.05	8.89	-123.24	
11,699.00	11.11	176.01	11,692.51	67.15	-63.70	-66.77	11.61	11.53	11.14	
11,744.00	17.13	186.82	11,736.14	56.23	-64.19	-55.85	14.55	13.38	24.02	
11,792.00	23.94	187.35	11,781.06	39.53	-66.28	-39.14	14.19	14.19	1.10	
11,837.00	29.52	187.41	11,821.24	19.47	-68.87	-19.06	12.40	12.40	0.13	
11,886.00	33.29	187.11	11,863.05	-5.86	-72.10	6.29	7.70	7.69	-0.61	
11,931.00	36.70	187.86	11,899.91	-31.44	-75.47	31.89	7.64	7.58	1.67	
11,980.00	38.42	184.26	11,938.76	-61.13	-78.60	61.60	5.69	3.51	-7.35	
12,025.00	39.07	177.87	11,973.87	-89.26	-79.11	89.73	9.00	1.44	-14.20	
12,047.00	40.57	178.04	11,990.76	-103.34	-78.61	103.80	6.85	6.83	0.78	
Wellpath Crosses Unit Line @ Heel										
12,073.00	42.35	178.23	12,010.25	-120.54	-78.05	121.01	6.85	6.83	0.73	

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)
12,118.00	45.69	178.50	12,042.60	-151.80	-77.16	152.25	7.43	7.42	0.60
12,192.00	48.36	171.29	12,093.08	-205.65	-72.28	206.07	7.99	3.61	-9.74
12,286.00	48.70	169.44	12,155.33	-275.08	-60.48	275.43	1.52	0.36	-1.97
12,357.00	54.48	173.27	12,199.43	-330.05	-52.20	330.36	9.17	8.14	5.39
12,450.00	73.40	180.92	12,240.15	-413.05	-48.44	413.33	21.62	20.34	8.23
12,463.04	76.08	181.53	12,243.58	-425.63	-48.71	425.91	21.03	20.53	4.72
PLU 25 BD 102H_RSN 152H 80°									
12,471.00	77.71	181.90	12,245.39	-433.37	-48.95	433.66	21.03	20.54	4.63
Wellpath Crosses 330° HL @ Heel									
12,485.00	80.59	182.54	12,248.02	-447.11	-49.48	447.40	21.03	20.55	4.55
12,489.52	81.08	182.53	12,248.74	-451.57	-49.68	451.85	10.81	10.80	-0.21
PLU 25 BD 102H_RSN 152H FTP_350FNL_581FEL									
12,491.00	81.24	182.53	12,248.97	-453.03	-49.74	453.32	10.81	10.80	-0.21
Wellpath Crosses FTP									
12,563.71	89.09	182.38	12,255.09	-525.36	-52.84	525.66	10.81	10.80	-0.21
PLU 25 BD 102H_RSN 152H LP p6 (~79°Past FTP)									
12,567.00	89.45	182.37	12,255.13	-528.65	-52.97	528.95	10.81	10.80	-0.21
12,661.00	90.01	176.85	12,255.58	-622.61	-52.33	622.91	5.90	0.60	-5.87
12,754.00	90.77	177.33	12,254.94	-715.48	-47.61	715.75	0.97	0.82	0.52
12,848.00	92.14	177.80	12,252.56	-809.37	-43.62	809.61	1.54	1.46	0.50
12,942.00	93.35	176.21	12,248.06	-903.12	-38.72	903.34	2.12	1.29	-1.69
13,036.00	93.69	176.60	12,242.28	-996.76	-32.83	996.94	0.55	0.36	0.41
13,131.00	89.62	177.20	12,239.54	-1,091.56	-27.70	1,091.71	4.33	-4.28	0.63
13,224.00	88.47	177.32	12,241.09	-1,184.44	-23.25	1,184.56	1.24	-1.24	0.13
13,318.00	89.06	178.47	12,243.12	-1,278.36	-19.80	1,278.45	1.37	0.63	1.22
13,413.00	91.53	179.89	12,242.63	-1,373.33	-18.44	1,373.42	3.00	2.60	1.49
13,506.00	90.24	179.75	12,241.19	-1,466.32	-18.15	1,466.40	1.40	-1.39	-0.15
13,600.00	93.60	180.73	12,238.04	-1,560.25	-18.54	1,560.34	3.72	3.57	1.04
13,694.00	90.10	180.48	12,235.01	-1,654.18	-19.53	1,654.27	3.73	-3.72	-0.27
13,788.00	89.31	180.91	12,235.49	-1,748.17	-20.68	1,748.27	0.96	-0.84	0.46
13,882.00	89.37	181.32	12,236.57	-1,842.15	-22.50	1,842.25	0.44	0.06	0.44
13,976.00	86.62	180.65	12,239.86	-1,936.07	-24.12	1,936.18	3.01	-2.93	-0.71
14,070.00	89.48	180.76	12,243.06	-2,030.00	-25.28	2,030.11	3.04	3.04	0.12
14,164.00	87.41	180.95	12,245.61	-2,123.95	-26.68	2,124.07	2.21	-2.20	0.20
14,258.00	92.98	182.49	12,245.29	-2,217.87	-29.50	2,218.00	6.15	5.93	1.64
14,352.00	89.79	182.89	12,243.02	-2,311.72	-33.91	2,311.88	3.42	-3.39	0.43
14,445.00	90.80	181.88	12,242.54	-2,404.64	-37.78	2,404.82	1.54	1.09	-1.09
14,539.00	90.21	178.92	12,241.71	-2,498.62	-38.43	2,498.80	3.21	-0.63	-3.15
14,634.00	88.87	178.34	12,242.48	-2,593.59	-36.16	2,593.76	1.54	-1.41	-0.61
14,727.00	88.44	179.16	12,244.66	-2,686.54	-34.13	2,686.69	1.00	-0.46	0.88
14,821.00	90.88	176.57	12,245.22	-2,780.46	-30.63	2,780.59	3.79	2.60	-2.76
14,915.00	87.04	175.38	12,246.92	-2,874.19	-24.04	2,874.28	4.28	-4.09	-1.27
15,009.00	92.39	177.66	12,247.39	-2,967.98	-18.33	2,968.03	6.19	5.69	2.43

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)
15,104.00	90.27	175.81	12,245.18	-3,062.79	-12.93	3,062.81	2.96	-2.23	-1.95
15,197.00	89.06	174.97	12,245.73	-3,155.48	-5.45	3,155.46	1.58	-1.30	-0.90
15,291.00	91.95	177.74	12,244.90	-3,249.27	0.52	3,249.21	4.26	3.07	2.95
15,385.00	89.51	178.52	12,243.70	-3,343.20	3.59	3,343.12	2.73	-2.60	0.83
15,478.00	93.29	180.38	12,241.43	-3,436.15	4.48	3,436.06	4.53	4.06	2.00
15,572.00	89.37	178.81	12,239.25	-3,530.10	5.15	3,530.01	4.49	-4.17	-1.67
15,665.00	88.75	178.43	12,240.77	-3,623.06	7.39	3,622.95	0.78	-0.67	-0.41
15,759.00	89.43	180.16	12,242.27	-3,717.04	8.55	3,716.92	1.98	0.72	1.84
15,853.00	92.90	180.35	12,240.36	-3,811.00	8.13	3,810.89	3.70	3.69	0.20
15,946.00	91.97	179.31	12,236.41	-3,903.92	8.40	3,903.80	1.50	-1.00	-1.12
16,040.00	91.56	179.17	12,233.51	-3,997.86	9.65	3,997.74	0.46	-0.44	-0.15
16,133.00	90.55	179.33	12,231.80	-4,090.84	10.87	4,090.70	1.10	-1.09	0.17
16,226.00	90.60	178.07	12,230.86	-4,183.81	12.98	4,183.66	1.36	0.05	-1.35
16,320.00	90.07	179.45	12,230.32	-4,277.78	15.01	4,277.62	1.57	-0.56	1.47
16,415.00	89.90	179.11	12,230.34	-4,372.77	16.20	4,372.60	0.40	-0.18	-0.36
16,508.00	90.43	180.04	12,230.07	-4,465.77	16.89	4,465.59	1.15	0.57	1.00
16,603.00	90.04	180.60	12,229.68	-4,560.77	16.36	4,560.59	0.72	-0.41	0.59
16,696.00	89.03	180.72	12,230.44	-4,653.76	15.29	4,653.58	1.09	-1.09	0.13
16,790.00	89.71	181.23	12,231.47	-4,747.74	13.69	4,747.57	0.90	0.72	0.54
16,883.00	89.12	180.57	12,232.42	-4,840.72	12.23	4,840.56	0.95	-0.63	-0.71
16,977.00	88.98	180.50	12,233.98	-4,934.70	11.35	4,934.55	0.17	-0.15	-0.07
17,071.00	90.07	179.93	12,234.76	-5,028.70	11.00	5,028.54	1.31	1.16	-0.61
17,164.00	88.25	179.47	12,236.12	-5,121.68	11.49	5,121.52	2.02	-1.96	-0.49
17,258.00	87.52	177.06	12,239.59	-5,215.57	14.33	5,215.39	2.68	-0.78	-2.56
17,352.00	89.43	177.81	12,242.09	-5,309.43	18.54	5,309.23	2.18	2.03	0.80
17,445.00	91.89	180.19	12,241.02	-5,402.40	20.16	5,402.19	3.68	2.65	2.56
17,539.00	88.50	176.80	12,240.70	-5,496.34	22.63	5,496.11	5.10	-3.61	-3.61
17,633.00	90.01	178.96	12,241.92	-5,590.26	26.10	5,590.01	2.80	1.61	2.30
17,727.00	89.03	179.26	12,242.71	-5,684.24	27.56	5,683.98	1.09	-1.04	0.32
17,820.00	92.14	182.08	12,241.76	-5,777.21	26.48	5,776.95	4.51	3.34	3.03
17,914.00	94.89	183.04	12,236.00	-5,870.93	22.29	5,870.70	3.10	2.93	1.02
18,008.00	93.52	183.20	12,229.11	-5,964.54	17.19	5,964.33	1.47	-1.46	0.17
18,102.00	91.70	183.06	12,224.83	-6,058.29	12.06	6,058.12	1.94	-1.94	-0.15
18,196.00	88.64	183.60	12,224.55	-6,152.12	6.60	6,151.98	3.31	-3.26	0.57
18,289.00	86.59	182.94	12,228.42	-6,244.89	1.30	6,244.77	2.32	-2.20	-0.71
18,384.00	90.74	184.14	12,230.63	-6,339.66	-4.56	6,339.57	4.55	4.37	1.26
18,477.00	87.55	183.59	12,232.02	-6,432.42	-10.83	6,432.37	3.48	-3.43	-0.59
18,571.00	89.79	182.76	12,234.20	-6,526.25	-16.04	6,526.23	2.54	2.38	-0.88
18,665.00	88.81	179.51	12,235.35	-6,620.21	-17.90	6,620.20	3.61	-1.04	-3.46
18,759.00	89.57	178.23	12,236.68	-6,714.18	-16.04	6,714.15	1.58	0.81	-1.36
18,852.00	91.22	178.27	12,236.04	-6,807.13	-13.20	6,807.09	1.77	1.77	0.04
18,946.00	93.21	179.10	12,232.40	-6,901.03	-11.05	6,900.97	2.29	2.12	0.88
19,040.00	90.07	181.65	12,229.71	-6,994.97	-11.66	6,994.91	4.30	-3.34	2.71

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_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)
19,134.00	90.04	182.21	12,229.62	-7,088.91	-14.83	7,088.88	0.60	-0.03	0.60
19,228.00	90.10	182.77	12,229.51	-7,182.82	-18.91	7,182.81	0.60	0.06	0.60
19,321.00	90.32	182.77	12,229.17	-7,275.72	-23.41	7,275.73	0.24	0.24	0.00
19,415.00	91.05	183.74	12,228.04	-7,369.56	-28.74	7,369.60	1.29	0.78	1.03
19,509.00	85.30	182.48	12,231.04	-7,463.33	-33.84	7,463.40	6.26	-6.12	-1.34
19,602.00	89.15	181.53	12,235.54	-7,556.14	-37.09	7,556.23	4.26	4.14	-1.02
19,696.00	90.07	181.61	12,236.18	-7,650.11	-39.66	7,650.21	0.98	0.98	0.09
19,790.00	90.88	181.90	12,235.40	-7,744.06	-42.54	7,744.17	0.92	0.86	0.31
19,800.04	90.70	181.86	12,235.26	-7,754.09	-42.87	7,754.21	1.89	-1.84	-0.43
PLU 25 BD 102H_RSN 152H LTP_330FSL_580FEL									
19,801.00	90.68	181.85	12,235.25	-7,755.05	-42.90	7,755.17	1.89	-1.84	-0.43
Wellpath Crosses LTP									
19,884.00	89.15	181.50	12,235.37	-7,838.01	-45.33	7,838.14	1.89	-1.84	-0.43
19,900.00	89.62	181.41	12,235.54	-7,854.01	-45.74	7,854.14	2.99	2.94	-0.56
19,930.57	89.62	181.41	12,235.75	-7,884.56	-46.49	7,884.70	0.00	0.00	0.00
PLU 25 BD 102H_RSN 152H PBHL p6_200FSL_580FEL									
19,945.00	89.62	181.41	12,235.84	-7,898.99	-46.85	7,899.13	0.00	0.00	0.00
TD @ 187FSL,622FEL									

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 25 BD 102H_RSN - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	400,944.60	652,665.10	32° 6' 4.872 N	103° 50' 25.139 W
PLU 25 BD 102H_RSN - actual wellpath misses target center by 0.01usft at 19945.00usft MD (12235.84 TVD, -7898.99 N, -46.85 E) - Point	0.00	0.00	12,235.84	-7,898.99	-46.85	393,045.61	652,618.25	32° 4' 46.704 N	103° 50' 26.103 W
PLU 25 BD 102H_RSN - actual wellpath misses target center by 39.84usft at 19800.07usft MD (12235.26 TVD, -7754.12 N, -42.87 E) - Point	0.00	0.00	12,249.00	-7,755.50	-5.50	393,189.10	652,659.60	32° 4' 48.122 N	103° 50' 25.615 W
PLU 25 BD 102H_RSN - actual wellpath misses target center by 43.66usft at 19930.57usft MD (12235.75 TVD, -7884.56 N, -46.49 E) - Rectangle (sides W100.00 H7,433.00 D0.00)	0.00	0.00	12,249.00	-7,885.50	-4.90	393,059.10	652,660.20	32° 4' 46.835 N	103° 50' 25.615 W
PLU 25 BD 102H_RSN - actual wellpath misses target center by 26.60usft at 12489.52usft MD (12248.74 TVD, -451.57 N, -49.68 E) - Point	0.00	0.00	12,249.00	-452.70	-23.10	400,491.90	652,642.00	32° 6' 0.393 N	103° 50' 25.432 W

Survey Report

Company:	XTO ENERGY INC.	Local Co-ordinate Reference:	Well PLU 25 BD 102H_RSN 152H - Slot PLU 25 BD 102H_RSN 152H SHL
Project:	Eddy County, NM (NMEZ) NAD27 Grid	TVD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Site:	Poker Lake Unit 25 BD	MD Reference:	3343+22 @ 3365.00usft (102-152 AK22)
Well:	PLU 25 BD 102H_RSN 152H	North Reference:	Grid
Wellbore:	102H-152H	Survey Calculation Method:	Minimum Curvature
Design:	102H-152H AsDrilled	Database:	CRUDE_EDM

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
12,047.00	11,990.76	-103.34	-78.61	Wellpath Crosses Unit Line @ Heel	
12,471.00	12,245.39	-433.37	-48.95	Wellpath Crosses 330' HL @ Heel	
12,491.00	12,248.97	-453.03	-49.74	Wellpath Crosses FTP	
19,801.00	12,235.25	-7,755.05	-42.90	Wellpath Crosses LTP	
19,945.00	12,235.84	-7,898.99	-46.85	TD @ 187FSL,622FEL	

Checked By: _____	Approved By: _____	Date: _____
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MAR 29 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☐ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45846	² Pool Code 98220	³ Pool Name Purple Sage Wolfcamp
⁴ Property Code 325339	⁵ Property Name POKER LAKE UNIT 25 BD	
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁶ Well Number 102H
		⁹ Elevation 3,343'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	25 S	30 E		2,560	NORTH	772	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	26 S	30 E		2,440	NORTH	980	WEST	EDDY

¹² Dedicated Acres 960	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 400,944.6 X= 652,665.1 LAT.= 32.101353°N LONG.= 103.840317°W FIRST TAKE POINT NAD 27 NME Y= 400,493.4 X= 652,872.0 LAT.= 32.100110°N LONG.= 103.839655°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,845.0 N, X= 653,224.3 E B - Y= 400,838.4 N, X= 651,892.9 E C - Y= 398,185.5 N, X= 653,217.9 E D - Y= 398,177.1 N, X= 651,887.1 E E - Y= 395,525.4 N, X= 653,229.4 E F - Y= 395,514.7 N, X= 651,898.9 E G - Y= 392,863.6 N, X= 653,241.1 E H - Y= 392,853.4 N, X= 651,911.2 E I - Y= 390,201.1 N, X= 653,258.7 E J - Y= 390,191.2 N, X= 651,926.3 E K - Y= 387,545.4 N, X= 653,287.5 E L - Y= 387,538.8 N, X= 651,963.9 E M - Y= 384,877.1 N, X= 653,290.3 E N - Y= 384,869.5 N, X= 651,959.6 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,902.9 N, X= 694,409.7 E B - Y= 400,896.3 N, X= 693,078.2 E C - Y= 398,243.4 N, X= 694,403.4 E D - Y= 398,235.0 N, X= 693,072.5 E E - Y= 395,583.2 N, X= 694,415.0 E F - Y= 395,572.5 N, X= 693,084.4 E G - Y= 392,921.4 N, X= 694,426.7 E H - Y= 392,911.2 N, X= 693,096.8 E I - Y= 390,258.8 N, X= 694,444.4 E J - Y= 390,248.9 N, X= 693,112.0 E K - Y= 387,603.0 N, X= 694,473.3 E L - Y= 387,596.5 N, X= 693,149.7 E M - Y= 384,934.7 N, X= 694,476.2 E N - Y= 384,927.1 N, X= 693,145.5 E LAST TAKE POINT NAD 27 NME Y= 385,233.6 X= 652,940.2 LAT.= 32.058161°N LONG.= 103.839660°W BOTTOM HOLE LOCATION NAD 27 NME Y= 385,103.6 X= 652,940.0 LAT.= 32.057804°N LONG.= 103.839663°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 401,002.5 X= 693,850.4 LAT.= 32.101478°N LONG.= 103.840797°W FIRST TAKE POINT NAD 83 NME Y= 400,551.3 X= 694,057.4 LAT.= 32.100235°N LONG.= 103.840135°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,902.9 N, X= 694,409.7 E B - Y= 400,896.3 N, X= 693,078.2 E C - Y= 398,243.4 N, X= 694,403.4 E D - Y= 398,235.0 N, X= 693,072.5 E E - Y= 395,583.2 N, X= 694,415.0 E F - Y= 395,572.5 N, X= 693,084.4 E G - Y= 392,921.4 N, X= 694,426.7 E H - Y= 392,911.2 N, X= 693,096.8 E I - Y= 390,258.8 N, X= 694,444.4 E J - Y= 390,248.9 N, X= 693,112.0 E K - Y= 387,603.0 N, X= 694,473.3 E L - Y= 387,596.5 N, X= 693,149.7 E M - Y= 384,934.7 N, X= 694,476.2 E N - Y= 384,927.1 N, X= 693,145.5 E LAST TAKE POINT NAD 83 NME Y= 385,291.2 X= 694,126.1 LAT.= 32.058286°N LONG.= 103.840138°W BOTTOM HOLE LOCATION NAD 83 NME Y= 385,161.2 X= 694,125.9 LAT.= 32.057929°N LONG.= 103.840141°W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 03-26-2018 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number AW 2018010047		

RP4-11-19



Project: Eddy County, NM (NAD-27)
Site: PLU 25 Brushy Draw
Well: #102H
Wellbore: OH
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #102H

Rig Name: RKB-27 @ 3370.00usft
Ground Level: 3343.00
+N/-S 0.00 +E/-W 0.00 Northing 400944.60 Easting 652665.10 Latitude 32.101353 Longitude -103.840316

DESIGN TARGET DETAILS

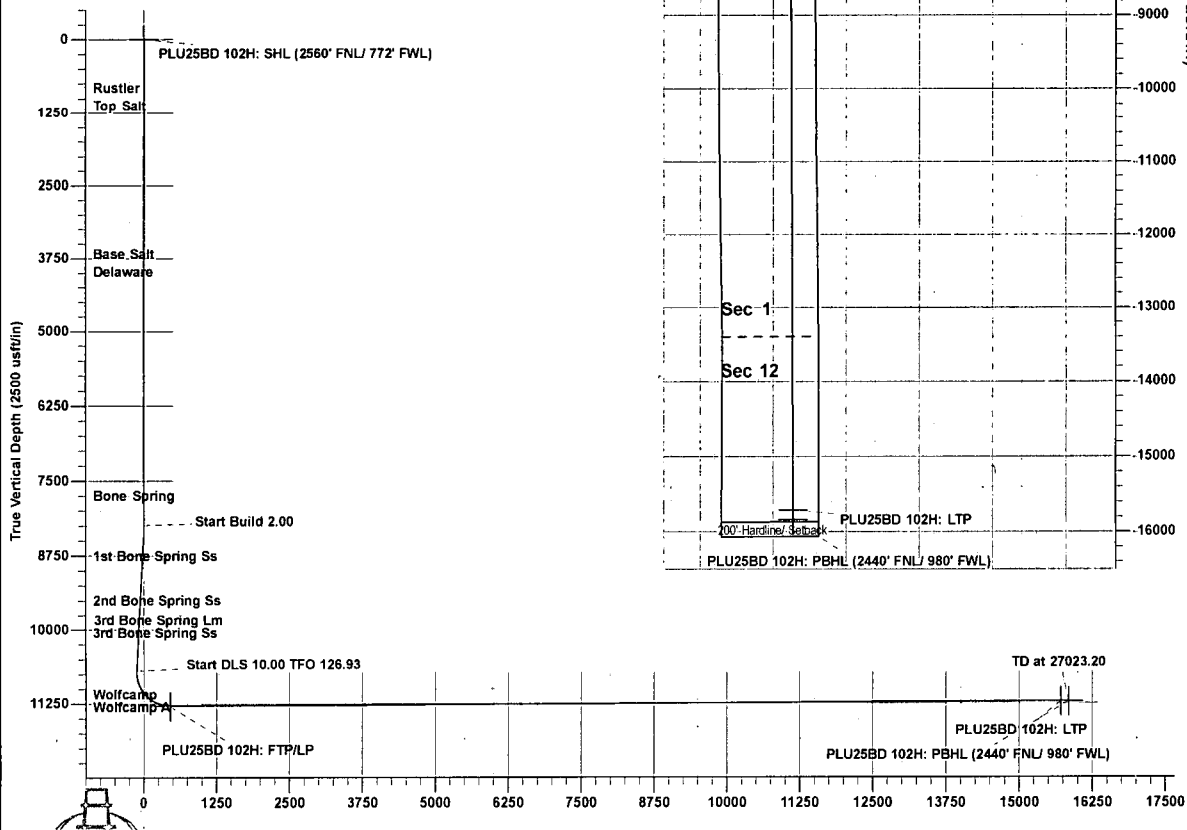
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PLU25BD 102H: SHL (2560' FNL/ 772' FWL)	0.00	0.00	0.00	400944.60	652665.10	32.101353	-103.840316	Point
PLU25BD 102H: PBHL (2440' FNL/ 980' FWL)	11218.00	-15941.00	274.90	385103.60	652940.00	32.057804	-103.839663	Point
PLU25BD 102H: LTP	11218.83	-15711.00	275.10	385233.60	652840.20	32.058161	-103.839660	Point
PLU25BD 102H: FTP/LP	11293.00	-451.20	206.90	400493.40	652872.00	32.100110	-103.839655	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8235.00	0.00	0.00	8235.00	0.00	0.00	0.00	0.00	0.00
3	8484.88	5.00	52.70	8484.57	6.60	8.66	2.00	52.70	-6.56
4	10700.19	5.00	52.70	10691.45	123.56	162.17	0.00	0.00	-122.85
5	11633.06	90.28	179.75	11293.00	-451.20	206.90	10.00	128.93	452.10
6	26893.20	90.28	179.75	11218.63	-15711.00	274.33	0.00	0.00	15712.05
7	27023.20	90.28	179.75	11218.00	-15841.00	274.90	0.00	0.00	15842.05

FORMATION TOP DETAILS

TVDPath	Formation
955.00	Rustler
1252.00	Top Salt
3804.00	Base Salt
4011.00	Delaware
7878.00	Bone Spring
8884.00	1st Bone Spring Ss
9625.00	2nd Bone Spring Ss
10064.00	3rd Bone Spring Lm
10824.00	3rd Bone Spring Ss
11228.00	Wolfcamp
11293.00	LP



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the customer.

Vertical Section at 179.75° (2500 usft/in)

Plan: PERMIT (#102H/OH)

Created By: Prototype Well Planning, LLC Date: 10/10/2018