

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

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address XTO Permian Operating, LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707		² OGRID Number 260737
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-45507	⁵ Pool Name PURPLE SAGE: WOLFMPICAMP	⁶ Pool Code 98220
⁷ Property Code 325599	⁸ Property Name POKER LAKE UNIT 28 BS	⁹ Well Number 106H

II. 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
G	28	25S	31E		2310	North	1920	East	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	26S	31E		225	South	1580	East	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
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373075	XTO Permian Operating, LLC 6401 Holiday Hill Rd, bldg 5 Midland, TX 79707	G
34053	Plains Marketing LP	O
05380	XTO Energy, Inc. 6401 Holiday Hill Rd, bldg 5 Midland, TX 79707	W

IV. Well Completion Data

²¹ Spud Date 2/13/2020	²² Ready Date 12/10/2020	²³ TD 24729 MD 11672 TVD	²⁴ PBT 24727 MD 11672 TVD	²⁵ Perforations 12280 - 24555	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	1240	1140		
12.25	9.625	10935	2970		
8.5	5.5/2.875	24729/11078	6585		

V. Well Test Data

³¹ Date New Oil 12/11/2020	³² Gas Delivery Date 12/11/2020	³³ Test Date 1/23/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 2577	³⁶ Csg. Pressure 1432
³⁷ Choke Size	³⁸ Oil 2718	³⁹ Water 7637	⁴⁰ Gas 12161		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: <u>Cassie Evans</u>		OIL CONSERVATION DIVISION Approved by: KURT SIMMONS	
Printed name: Cassie Evans		Title: NMOCD	
Title: Regulatory Analyst		Approval Date: 02/25/2021	
E-mail Address: cassie.evans@exxonmobil.com			
Date: 02/09/2021	Phone: 432.218.3671		

District I

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

District II

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

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015-45507	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 325599	⁵ Property Name POKER LAKE UNIT 28 BS	⁶ Well Number 106H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,339'

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
G	28	25 S	31 E		2,310	NORTH	1,920	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	26 S	31 E		225	SOUTH	1,580	EAST	EDDY

¹² Dedicated Acres 800	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY

¹⁶ GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 401,300.5 X= 671,261.2 LAT.= 32.102084°N LONG.= 103.780259°W KICK OFF POINT NAD 27 NME Y= 401,063.0 X= 671,558.8 LAT.= 32.101427°N LONG.= 103.779301°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,956.5 N, X= 670,521.7 E B - Y= 400,962.8 N, X= 671,850.9 E C - Y= 398,304.2 N, X= 670,514.6 E D - Y= 398,312.1 N, X= 671,845.7 E E - Y= 395,652.3 N, X= 670,529.0 E F - Y= 395,661.9 N, X= 671,859.4 E G - Y= 393,002.3 N, X= 670,543.3 E H - Y= 393,012.5 N, X= 671,873.1 E I - Y= 390,337.1 N, X= 670,552.3 E J - Y= 390,347.9 N, X= 671,881.5 E K - Y= 387,673.5 N, X= 670,561.3 E L - Y= 387,683.4 N, X= 671,889.6 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 401,014.4 N, X= 711,707.3 E B - Y= 401,020.7 N, X= 713,036.5 E C - Y= 398,362.0 N, X= 711,700.3 E D - Y= 398,369.9 N, X= 713,031.4 E E - Y= 395,710.0 N, X= 711,714.8 E F - Y= 395,719.6 N, X= 713,045.2 E G - Y= 393,060.0 N, X= 711,729.2 E H - Y= 393,070.2 N, X= 713,059.0 E I - Y= 390,394.7 N, X= 711,738.3 E J - Y= 390,405.5 N, X= 713,067.5 E K - Y= 387,731.1 N, X= 711,747.4 E L - Y= 387,741.0 N, X= 713,075.8 E LAST TAKE POINT NAD 27 NME Y= 388,022.5 X= 671,637.4 LAT.= 32.065578°N LONG.= 103.779264°W BOTTOM HOLE LOCATION NAD 27 NME Y= 387,906.6 X= 671,637.0 LAT.= 32.065259°N LONG.= 103.779267°W GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 401,358.4 X= 712,446.8 LAT.= 32.102208°N LONG.= 103.780736°W KICK OFF POINT NAD 83 NME Y= 401,120.9 X= 712,744.4 LAT.= 32.101551°N LONG.= 103.779779°W FIRST TAKE POINT NAD 83 NME Y= 400,350.5 X= 712,782.4 LAT.= 32.099433°N LONG.= 103.779669°W FIRST TAKE POINT NAD 27 NME Y= 400,292.7 X= 671,596.7 LAT.= 32.099308°N LONG.= 103.779192°W LAST TAKE POINT NAD 83 NME Y= 388,080.1 X= 712,823.5 LAT.= 32.065703°N LONG.= 103.779740°W BOTTOM HOLE LOCATION NAD 83 NME Y= 387,964.2 X= 712,823.1 LAT.= 32.065384°N LONG.= 103.779743°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. Cassie Evans 02/09/2021 Signature Date Cassie Evans Printed Name cassie.evans@exxonmobil.com 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. 1-26-2021 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR/JC 2017070993
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I Joseph Proske, certify that I am employed by Scout Downhole Inc. (SDI). That I did on the day(s) of 02/14/20 thru 03/25/20 conduct or supervise the taking of a MWD Survey from a depth of 228' to a depth of 24671'; that the data is true, correct, complete and within the limitations of the tool as set forth by Scout Downhole Inc. (SDI).; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO ENERGY LLC. for the PLU 28 Big Sinks 106H API No. 30-015-45507 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Scout Downhole Inc. (SDI).

Joseph Proske

Joseph
Proske

Digitally signed by: Joseph
Proske
DN: CN = Joseph Proske
email =
jproske@scoutdrilltech.com
C = US O = Scout Downhole
OU = SDI
Date: 2020.04.29 15:37:59 -
05'00'

1125 Beach Airport Rd, Conroe, Texas
77301
PH 936-756-3255 FAX 936-756-3229



XTO Energy

Eddy County, NM

PLU 28 Big Sinks

PLU 28 Big Sinks 106H

Wellbore #1

Design: Surveys

Standard Survey Report

25 March, 2020





Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Project	Eddy County, NM		
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 28 Big Sinks		
Site Position:		Northing:	401,300.20 usft
From:	Map	Easting:	671,171.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 7.503 N
		Longitude:	103° 46' 49.977 W
		Grid Convergence:	0.29 °

Well	PLU 28 Big Sinks 106H		
Well Position	+N/-S	0.00 usft	Northing: 401,300.50 usft
	+E/-W	0.00 usft	Easting: 671,261.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 7.501 N
		Longitude:	103° 46' 48.931 W
		Ground Level:	3,339.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	1/31/2020	6.65
			Dip Angle (°) 59.68
			Field Strength (nT) 47,733.40000000

Design	Surveys		
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 (°) 178.44

Survey Program	Date	3/25/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
228.00	21,206.00	Survey #1_MagVar Corrected MWD Survey	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
21,206.00	24,729.00	Survey #2_Scout MWD Surveys (Wellbore)	MWD+HRGM	OWSG MWD + HRGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228.00	1.05	17.77	227.99	1.99	0.64	-1.97	0.46	0.46	0.00
First MWD+IFR1+MS Survey@ 228.00' MD									
258.00	1.14	14.43	257.98	2.54	0.80	-2.52	0.37	0.30	-11.13
350.00	0.88	36.75	349.97	3.99	1.45	-3.95	0.51	-0.28	24.26
440.00	0.88	77.45	439.96	4.70	2.53	-4.63	0.68	0.00	45.22
531.00	1.01	109.35	530.95	4.58	3.97	-4.47	0.59	0.14	35.05
624.00	1.14	125.52	623.93	3.77	5.50	-3.62	0.35	0.14	17.39
716.00	0.79	137.39	715.92	2.78	6.67	-2.59	0.44	-0.38	12.90
806.00	0.97	159.54	805.91	1.60	7.36	-1.40	0.42	0.20	24.61



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
897.00	1.05	138.88	896.89	0.25	8.18	-0.03	0.41	0.09	-22.70
989.00	0.79	143.45	988.88	-0.89	9.11	1.14	0.29	-0.28	4.97
1,081.00	0.75	141.08	1,080.87	-1.87	9.87	2.14	0.06	-0.04	-2.58
1,164.00	1.10	138.62	1,163.86	-2.89	10.73	3.18	0.42	0.42	-2.96
1,354.00	0.92	131.76	1,353.83	-5.27	13.08	5.63	0.11	-0.09	-3.61
1,448.00	1.41	132.73	1,447.81	-6.56	14.49	6.95	0.52	0.52	1.03
1,543.00	1.85	132.64	1,542.77	-8.39	16.48	8.84	0.46	0.46	-0.09
1,637.00	1.67	133.26	1,636.73	-10.36	18.59	10.86	0.19	-0.19	0.66
1,731.00	1.49	137.04	1,730.69	-12.19	20.42	12.74	0.22	-0.19	4.02
1,825.00	2.11	120.86	1,824.65	-13.97	22.74	14.59	0.85	0.66	-17.21
1,920.00	2.55	119.19	1,919.57	-15.90	26.09	16.61	0.47	0.46	-1.76
2,015.00	2.33	123.94	2,014.48	-18.01	29.53	18.81	0.31	-0.23	5.00
2,109.00	2.07	129.65	2,108.41	-20.16	32.42	21.04	0.36	-0.28	6.07
2,204.00	1.89	137.74	2,203.36	-22.41	34.80	23.36	0.35	-0.19	8.52
2,298.00	2.42	131.85	2,297.29	-24.89	37.32	25.89	0.61	0.56	-6.27
2,393.00	2.81	132.03	2,392.19	-27.78	40.54	28.88	0.41	0.41	0.19
2,488.00	2.81	132.38	2,487.08	-30.91	43.99	32.10	0.02	0.00	0.37
2,582.00	2.86	134.31	2,580.96	-34.10	47.37	35.38	0.11	0.05	2.05
2,676.00	2.68	123.76	2,674.85	-36.96	50.88	38.34	0.57	-0.19	-11.22
2,771.00	2.64	118.75	2,769.75	-39.25	54.64	40.73	0.25	-0.04	-5.27
2,865.00	2.46	122.89	2,863.66	-41.39	58.24	42.96	0.27	-0.19	4.40
2,959.00	2.81	120.25	2,957.56	-43.64	61.92	45.32	0.39	0.37	-2.81
3,054.00	3.12	118.31	3,052.43	-46.04	66.21	47.83	0.34	0.33	-2.04
3,148.00	3.12	113.04	3,146.29	-48.26	70.81	50.17	0.31	0.00	-5.61
3,241.00	3.30	107.94	3,239.15	-50.07	75.69	52.12	0.36	0.19	-5.48
3,335.00	3.69	111.11	3,332.97	-51.99	81.08	54.19	0.46	0.41	3.37
3,429.00	3.82	112.51	3,426.77	-54.28	86.80	56.63	0.17	0.14	1.49
3,523.00	4.79	111.37	3,520.50	-56.91	93.35	59.44	1.04	1.03	-1.21
3,617.00	6.07	115.68	3,614.08	-60.49	101.48	63.24	1.43	1.36	4.59
3,711.00	6.59	121.57	3,707.51	-65.47	110.56	68.46	0.88	0.55	6.27
3,805.00	6.86	115.33	3,800.86	-70.70	120.23	73.95	0.83	0.29	-6.64
3,898.00	7.08	110.32	3,893.17	-75.06	130.62	78.60	0.69	0.24	-5.39
3,992.00	6.81	117.44	3,986.49	-79.64	141.00	83.46	0.96	-0.29	7.57
4,085.00	6.42	122.62	4,078.87	-84.99	150.27	89.06	0.77	-0.42	5.57
4,179.00	5.76	124.47	4,172.34	-90.49	158.59	94.79	0.73	-0.70	1.97
4,273.00	5.19	123.76	4,265.91	-95.52	166.01	100.02	0.61	-0.61	-0.76
4,366.00	4.88	123.59	4,358.55	-100.05	172.80	104.73	0.33	-0.33	-0.18
4,460.00	4.48	123.59	4,452.24	-104.29	179.19	109.14	0.43	-0.43	0.00
4,554.00	4.84	117.52	4,545.92	-108.16	185.77	113.19	0.65	0.38	-6.46
4,647.00	4.88	114.62	4,638.59	-111.62	192.84	116.84	0.27	0.04	-3.12
4,741.00	5.10	114.89	4,732.23	-115.04	200.27	120.46	0.24	0.23	0.29
4,835.00	5.10	114.80	4,825.86	-118.55	207.85	124.18	0.01	0.00	-0.10
4,929.00	5.36	117.17	4,919.47	-122.31	215.55	128.15	0.36	0.28	2.52



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,022.00	5.49	118.23	5,012.05	-126.40	223.33	132.45	0.18	0.14	1.14
5,116.00	5.19	117.70	5,105.65	-130.50	231.06	136.76	0.32	-0.32	-0.56
5,211.00	4.88	121.74	5,200.28	-134.62	238.30	141.08	0.50	-0.33	4.25
5,305.00	4.44	122.80	5,293.97	-138.70	244.76	145.33	0.48	-0.47	1.13
5,398.00	4.35	124.12	5,386.70	-142.63	250.70	149.42	0.15	-0.10	1.42
5,492.00	4.79	121.65	5,480.40	-146.68	257.00	153.64	0.51	0.47	-2.63
5,585.00	4.92	120.78	5,573.06	-150.76	263.73	157.91	0.16	0.14	-0.94
5,680.00	4.75	122.01	5,667.72	-154.93	270.56	162.26	0.21	-0.18	1.29
5,776.00	4.48	122.36	5,763.41	-159.05	277.10	166.55	0.28	-0.28	0.36
5,871.00	3.82	126.05	5,858.16	-162.89	282.79	170.55	0.75	-0.69	3.88
5,966.00	3.30	126.49	5,952.98	-166.38	287.55	174.17	0.55	-0.55	0.46
6,061.00	3.69	122.45	6,047.80	-169.65	292.33	177.57	0.49	0.41	-4.25
6,155.00	4.26	120.34	6,141.58	-173.04	297.89	181.10	0.63	0.61	-2.24
6,248.00	4.13	119.46	6,234.33	-176.43	303.79	184.65	0.16	-0.14	-0.95
6,344.00	4.40	119.81	6,330.06	-179.96	310.00	188.35	0.28	0.28	0.36
6,438.00	4.62	119.72	6,423.77	-183.63	316.41	192.20	0.23	0.23	-0.10
6,533.00	3.82	123.24	6,518.51	-187.26	322.38	195.99	0.88	-0.84	3.71
6,628.00	2.77	124.91	6,613.35	-190.31	326.91	199.16	1.11	-1.11	1.76
6,722.00	1.58	126.58	6,707.29	-192.38	329.82	201.31	1.27	-1.27	1.78
6,817.00	1.27	125.70	6,802.26	-193.77	331.72	202.76	0.33	-0.33	-0.93
6,912.00	1.45	129.74	6,897.23	-195.16	333.50	204.19	0.21	0.19	4.25
7,007.00	1.32	127.46	6,992.20	-196.59	335.29	205.67	0.15	-0.14	-2.40
7,103.00	0.62	115.68	7,088.19	-197.49	336.64	206.60	0.75	-0.73	-12.27
7,197.00	0.44	110.93	7,182.18	-197.84	337.44	206.97	0.20	-0.19	-5.05
7,292.00	0.53	117.52	7,277.18	-198.17	338.17	207.33	0.11	0.09	6.94
7,387.00	0.40	117.88	7,372.18	-198.53	338.85	207.70	0.14	-0.14	0.38
7,482.00	0.40	11.88	7,467.17	-198.36	339.21	207.55	0.67	0.00	-111.58
7,578.00	0.44	4.85	7,563.17	-197.67	339.31	206.85	0.07	0.04	-7.32
7,674.00	0.40	5.02	7,659.17	-196.96	339.37	206.15	0.04	-0.04	0.18
7,769.00	0.44	349.91	7,754.17	-196.27	339.34	205.46	0.12	0.04	-15.91
7,863.00	0.35	340.50	7,848.16	-195.65	339.18	204.83	0.12	-0.10	-10.01
7,956.00	0.31	306.40	7,941.16	-195.23	338.88	204.41	0.21	-0.04	-36.67
8,050.00	0.22	297.17	8,035.16	-195.00	338.51	204.17	0.11	-0.10	-9.82
8,144.00	0.35	276.61	8,129.16	-194.88	338.07	204.04	0.17	0.14	-21.87
8,237.00	0.44	265.36	8,222.16	-194.88	337.43	204.02	0.13	0.10	-12.10
8,331.00	0.66	261.84	8,316.15	-194.99	336.54	204.10	0.24	0.23	-3.74
8,425.00	0.84	272.30	8,410.15	-195.03	335.31	204.11	0.24	0.19	11.13
8,519.00	0.92	271.60	8,504.14	-194.99	333.87	204.03	0.09	0.09	-0.74
8,612.00	1.32	263.07	8,597.12	-195.09	332.06	204.08	0.46	0.43	-9.17
8,706.00	0.88	251.56	8,691.10	-195.45	330.30	204.40	0.52	-0.47	-12.24
8,800.00	0.53	248.22	8,785.09	-195.84	329.21	204.76	0.37	-0.37	-3.55
8,893.00	0.84	247.25	8,878.09	-196.27	328.18	205.15	0.33	0.33	-1.04
8,987.00	0.92	247.34	8,972.08	-196.82	326.85	205.67	0.09	0.09	0.10



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,081.00	1.05	246.46	9,066.06	-197.46	325.36	206.26	0.14	0.14	-0.94
9,175.00	1.14	234.77	9,160.04	-198.34	323.81	207.11	0.26	0.10	-12.44
9,268.00	1.32	232.31	9,253.02	-199.53	322.21	208.25	0.20	0.19	-2.65
9,362.00	1.19	228.35	9,347.00	-200.84	320.62	209.52	0.17	-0.14	-4.21
9,456.00	1.14	234.42	9,440.98	-202.03	319.13	210.67	0.14	-0.05	6.46
9,550.00	1.32	231.69	9,534.96	-203.25	317.52	211.84	0.20	0.19	-2.90
9,643.00	1.41	233.63	9,627.93	-204.59	315.76	213.13	0.11	0.10	2.09
9,737.00	1.32	227.56	9,721.91	-206.01	314.03	214.50	0.18	-0.10	-6.46
9,831.00	1.10	227.91	9,815.89	-207.34	312.56	215.80	0.23	-0.23	0.37
9,925.00	1.14	230.81	9,909.87	-208.54	311.17	216.95	0.07	0.04	3.09
10,018.00	1.10	219.56	10,002.85	-209.81	309.88	218.19	0.24	-0.04	-12.10
10,112.00	1.23	193.64	10,096.83	-211.49	309.07	219.84	0.57	0.14	-27.57
10,206.00	1.54	206.56	10,190.80	-213.60	308.27	221.93	0.47	0.33	13.74
10,300.00	1.45	209.90	10,284.77	-215.76	307.11	224.06	0.13	-0.10	3.55
10,393.00	1.63	209.19	10,377.74	-217.93	305.88	226.20	0.19	0.19	-0.76
10,487.00	1.67	200.05	10,471.70	-220.39	304.75	228.62	0.28	0.04	-9.72
10,581.00	2.07	188.36	10,565.65	-223.35	304.04	231.57	0.59	0.43	-12.44
10,675.00	2.11	190.82	10,659.59	-226.73	303.47	234.93	0.10	0.04	2.62
10,769.00	1.89	202.51	10,753.53	-229.86	302.55	238.04	0.49	-0.23	12.44
10,863.00	1.58	210.25	10,847.49	-232.42	301.30	240.55	0.41	-0.33	8.23
10,870.00	1.63	215.70	10,854.48	-232.58	301.20	240.71	2.29	0.71	77.86
10,966.00	1.44	226.19	10,950.45	-234.52	299.53	242.61	0.35	-0.20	10.93
11,060.00	1.37	224.84	11,044.42	-236.14	297.88	244.18	0.08	-0.07	-1.44
11,107.00	5.06	186.01	11,091.34	-238.60	297.27	246.62	8.69	7.85	-82.62
11,154.00	10.97	186.24	11,137.86	-245.11	296.57	253.11	12.57	12.57	0.49
11,201.00	14.84	175.98	11,183.67	-255.57	296.50	263.56	9.54	8.23	-21.83
11,248.00	19.27	171.83	11,228.60	-269.25	298.03	277.29	9.77	9.43	-8.83
11,295.00	25.89	176.06	11,271.97	-287.19	299.84	295.27	14.49	14.09	9.00
11,342.00	27.72	176.85	11,313.92	-308.34	301.14	316.45	3.97	3.89	1.68
11,389.00	28.61	176.36	11,355.36	-330.49	302.46	338.62	1.96	1.89	-1.04
11,436.00	30.51	175.67	11,396.24	-353.62	304.07	361.78	4.11	4.04	-1.47
11,484.00	32.38	174.80	11,437.19	-378.57	306.16	386.78	4.01	3.90	-1.81
11,531.00	33.21	174.10	11,476.69	-403.91	308.62	412.18	1.94	1.77	-1.49
11,575.00	34.60	173.15	11,513.21	-428.30	311.35	436.63	3.38	3.16	-2.16
11,622.00	35.98	172.79	11,551.57	-455.24	314.67	463.66	2.97	2.94	-0.77
11,669.00	38.38	175.22	11,589.02	-483.49	317.62	491.98	5.99	5.11	5.17
11,716.00	41.28	177.48	11,625.11	-513.52	319.52	522.05	6.90	6.17	4.81
11,764.00	44.40	179.23	11,660.30	-546.14	320.44	554.68	6.96	6.50	3.65
11,811.00	48.58	178.26	11,692.66	-580.21	321.20	588.76	9.02	8.89	-2.06
11,858.00	54.29	178.07	11,721.94	-616.93	322.38	625.50	12.15	12.15	-0.40
11,905.00	56.77	177.85	11,748.54	-655.65	323.76	664.24	5.29	5.28	-0.47
11,952.00	60.76	178.24	11,772.91	-695.80	325.13	704.42	8.52	8.49	0.83
11,973.47	63.19	177.79	11,783.00	-714.75	325.78	723.37	11.48	11.34	-2.07
PLU 28 BS 160H p7 FTP									



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,999.00	66.09	177.29	11,793.93	-737.79	326.77	746.43	11.48	11.34	-1.98
12,046.00	69.30	176.54	11,811.77	-781.20	329.12	789.89	6.99	6.83	-1.60
12,093.00	71.95	176.85	11,827.36	-825.46	331.67	834.21	5.67	5.64	0.66
12,140.00	74.15	177.73	11,841.06	-870.37	333.80	879.15	5.01	4.68	1.87
12,187.00	77.84	178.50	11,852.43	-915.94	335.29	924.75	8.01	7.85	1.64
12,234.00	81.23	179.89	11,860.97	-962.14	335.94	970.95	7.78	7.21	2.96
12,281.00	85.75	181.06	11,866.29	-1,008.83	335.55	1,017.61	9.93	9.62	2.49
12,376.00	91.44	182.59	11,868.62	-1,103.71	332.52	1,112.37	6.20	5.99	1.61
12,469.00	90.04	180.54	11,867.42	-1,196.66	329.99	1,205.22	2.67	-1.51	-2.20
12,563.00	88.50	180.20	11,868.62	-1,290.65	329.38	1,299.15	1.68	-1.64	-0.36
12,658.00	87.77	180.00	11,871.71	-1,385.59	329.21	1,394.06	0.80	-0.77	-0.21
12,751.00	88.05	180.06	11,875.10	-1,478.53	329.16	1,486.97	0.31	0.30	0.06
12,846.00	88.58	180.21	11,877.90	-1,573.49	328.94	1,581.88	0.58	0.56	0.16
12,940.00	88.64	180.01	11,880.18	-1,667.46	328.76	1,675.81	0.22	0.06	-0.21
13,033.00	87.63	179.18	11,883.20	-1,760.41	329.42	1,768.74	1.41	-1.09	-0.89
13,128.00	88.67	178.79	11,886.27	-1,855.34	331.10	1,863.69	1.17	1.09	-0.41
13,222.00	90.18	178.82	11,887.21	-1,949.32	333.06	1,957.68	1.61	1.61	0.03
13,315.00	90.63	177.73	11,886.56	-2,042.27	335.86	2,050.68	1.27	0.48	-1.17
13,409.00	90.77	176.69	11,885.41	-2,136.15	340.43	2,144.65	1.12	0.15	-1.11
13,502.00	91.13	178.61	11,883.86	-2,229.05	344.25	2,237.62	2.10	0.39	2.06
13,577.00	92.00	178.78	11,881.82	-2,304.01	345.95	2,312.59	1.18	1.16	0.23
13,671.00	91.50	178.83	11,878.95	-2,397.94	347.91	2,406.54	0.53	-0.53	0.05
13,765.00	91.84	178.60	11,876.21	-2,491.88	350.02	2,500.50	0.44	0.36	-0.24
13,858.00	92.29	180.25	11,872.86	-2,584.81	350.95	2,593.42	1.84	0.48	1.77
13,952.00	90.74	180.57	11,870.37	-2,678.77	350.28	2,687.33	1.68	-1.65	0.34
14,046.00	88.64	181.22	11,870.88	-2,772.75	348.81	2,781.24	2.34	-2.23	0.69
14,140.00	88.58	180.37	11,873.16	-2,866.71	347.51	2,875.13	0.91	-0.06	-0.90
14,234.00	88.50	179.38	11,875.55	-2,960.68	347.71	2,969.07	1.06	-0.09	-1.05
14,328.00	88.78	178.68	11,877.78	-3,054.64	349.30	3,063.04	0.80	0.30	-0.74
14,421.00	88.75	177.80	11,879.79	-3,147.58	352.16	3,156.01	0.95	-0.03	-0.95
14,515.00	88.61	178.15	11,881.95	-3,241.49	355.48	3,249.99	0.40	-0.15	0.37
14,609.00	89.40	180.30	11,883.59	-3,335.46	356.75	3,343.96	2.44	0.84	2.29
14,704.00	89.90	180.25	11,884.17	-3,430.46	356.30	3,438.91	0.53	0.53	-0.05
14,798.00	90.55	179.84	11,883.80	-3,524.46	356.22	3,532.87	0.82	0.69	-0.44
14,892.00	89.48	180.42	11,883.77	-3,618.46	356.01	3,626.83	1.29	-1.14	0.62
14,986.00	91.28	181.52	11,883.15	-3,712.44	354.42	3,720.73	2.24	1.91	1.17
15,080.00	90.29	180.47	11,881.86	-3,806.41	352.79	3,814.62	1.54	-1.05	-1.12
15,175.00	90.41	180.24	11,881.28	-3,901.41	352.20	3,909.57	0.27	0.13	-0.24
15,269.00	91.22	178.76	11,879.95	-3,995.39	353.02	4,003.54	1.79	0.86	-1.57
15,362.00	89.71	178.91	11,879.19	-4,088.36	354.91	4,096.53	1.63	-1.62	0.16
15,456.00	88.98	180.23	11,880.26	-4,182.35	355.61	4,190.50	1.60	-0.78	1.40
15,550.00	89.59	179.88	11,881.44	-4,276.35	355.52	4,284.46	0.75	0.65	-0.37
15,644.00	87.94	180.00	11,883.46	-4,370.32	355.62	4,378.40	1.76	-1.76	0.13



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,738.00	89.01	180.19	11,885.97	-4,464.29	355.47	4,472.32	1.16	1.14	0.20
15,833.00	89.96	180.35	11,886.82	-4,559.28	355.02	4,567.27	1.01	1.00	0.17
15,927.00	88.16	182.35	11,888.36	-4,653.23	352.80	4,661.13	2.86	-1.91	2.13
16,021.00	86.82	181.38	11,892.48	-4,747.09	349.75	4,754.87	1.76	-1.43	-1.03
16,116.00	88.16	181.33	11,896.64	-4,841.97	347.50	4,849.65	1.41	1.41	-0.05
16,209.00	89.93	180.51	11,898.19	-4,934.94	346.01	4,942.55	2.10	1.90	-0.88
16,303.00	90.18	180.01	11,898.10	-5,028.94	345.58	5,036.50	0.59	0.27	-0.53
16,396.00	92.20	179.04	11,896.17	-5,121.91	346.35	5,129.45	2.41	2.17	-1.04
16,491.00	93.46	178.65	11,891.48	-5,216.77	348.27	5,224.33	1.39	1.33	-0.41
16,584.00	91.61	179.24	11,887.36	-5,309.66	349.98	5,317.23	2.09	-1.99	0.63
16,678.00	92.73	179.42	11,883.80	-5,403.59	351.08	5,411.15	1.21	1.19	0.19
16,772.00	89.85	178.95	11,881.69	-5,497.54	352.41	5,505.11	3.10	-3.06	-0.50
16,866.00	90.88	178.98	11,881.09	-5,591.52	354.11	5,599.11	1.10	1.10	0.03
16,960.00	91.11	178.29	11,879.46	-5,685.48	356.35	5,693.09	0.77	0.24	-0.73
17,053.00	90.07	177.88	11,878.50	-5,778.42	359.46	5,786.08	1.20	-1.12	-0.44
17,147.00	89.71	176.79	11,878.68	-5,872.32	363.83	5,880.06	1.22	-0.38	-1.16
17,241.00	90.07	177.78	11,878.86	-5,966.21	368.28	5,974.04	1.12	0.38	1.05
17,335.00	90.24	178.71	11,878.61	-6,060.17	371.16	6,068.04	1.01	0.18	0.99
17,428.00	90.15	180.08	11,878.29	-6,153.16	372.14	6,161.02	1.48	-0.10	1.47
17,522.00	90.15	181.92	11,878.04	-6,247.14	370.50	6,254.93	1.96	0.00	1.96
17,616.00	91.33	182.44	11,876.83	-6,341.06	366.92	6,348.72	1.37	1.26	0.55
17,710.00	92.12	181.87	11,874.00	-6,434.95	363.39	6,442.47	1.04	0.84	-0.61
17,804.00	90.69	182.27	11,871.69	-6,528.86	360.00	6,536.25	1.58	-1.52	0.43
17,897.00	90.85	181.84	11,870.45	-6,621.79	356.66	6,629.06	0.49	0.17	-0.46
17,991.00	91.14	180.89	11,868.81	-6,715.75	354.42	6,722.92	1.06	0.31	-1.01
18,085.00	90.83	179.32	11,867.20	-6,809.73	354.25	6,816.86	1.70	-0.33	-1.67
18,178.00	90.77	177.85	11,865.90	-6,902.69	356.55	6,909.85	1.58	-0.06	-1.58
18,272.00	90.88	178.47	11,864.54	-6,996.63	359.57	7,003.84	0.67	0.12	0.66
18,366.00	91.25	179.53	11,862.80	-7,090.60	361.21	7,097.82	1.19	0.39	1.13
18,459.00	91.64	178.61	11,860.45	-7,183.56	362.72	7,190.78	1.07	0.42	-0.99
18,553.00	91.19	179.40	11,858.13	-7,277.52	364.35	7,284.75	0.97	-0.48	0.84
18,647.00	90.91	178.90	11,856.41	-7,371.49	365.74	7,378.73	0.61	-0.30	-0.53
18,740.00	90.91	177.95	11,854.93	-7,464.44	368.30	7,471.71	1.02	0.00	-1.02
18,834.00	90.15	178.68	11,854.06	-7,558.40	371.06	7,565.71	1.12	-0.81	0.78
18,927.00	90.18	180.08	11,853.79	-7,651.39	372.07	7,658.69	1.51	0.03	1.51
19,021.00	90.38	179.61	11,853.33	-7,745.39	372.32	7,752.66	0.54	0.21	-0.50
19,115.00	89.90	179.84	11,853.11	-7,839.38	372.77	7,846.64	0.57	-0.51	0.24
19,209.00	90.27	178.86	11,852.97	-7,933.38	373.84	7,940.62	1.11	0.39	-1.04
19,303.00	91.42	179.49	11,851.58	-8,027.35	375.19	8,034.60	1.39	1.22	0.67
19,397.00	91.56	178.83	11,849.14	-8,121.31	376.57	8,128.56	0.72	0.15	-0.70
19,490.00	91.78	179.03	11,846.42	-8,214.26	378.31	8,221.52	0.32	0.24	0.22
19,584.00	91.72	178.78	11,843.55	-8,308.19	380.10	8,315.47	0.27	-0.06	-0.27
19,668.00	91.50	179.04	11,841.19	-8,392.15	381.70	8,399.44	0.41	-0.26	0.31
19,761.00	92.54	179.51	11,837.92	-8,485.08	382.87	8,492.37	1.23	1.12	0.51



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,856.00	93.07	179.74	11,833.27	-8,579.96	383.50	8,587.23	0.61	0.56	0.24
19,892.00	93.49	179.73	11,831.21	-8,615.90	383.66	8,623.17	1.17	1.17	-0.03
19,986.00	88.98	181.14	11,829.18	-8,709.85	382.95	8,717.06	5.03	-4.80	1.50
20,079.00	88.87	181.21	11,830.93	-8,802.82	381.04	8,809.94	0.14	-0.12	0.08
20,173.00	89.62	180.62	11,832.17	-8,896.80	379.54	8,903.84	1.02	0.80	-0.63
20,267.00	90.15	180.43	11,832.35	-8,990.79	378.68	8,997.78	0.60	0.56	-0.20
20,360.00	90.88	180.17	11,831.52	-9,083.79	378.19	9,090.72	0.83	0.78	-0.28
20,454.00	91.39	179.86	11,829.66	-9,177.77	378.17	9,184.67	0.63	0.54	-0.33
20,548.00	92.03	179.68	11,826.85	-9,271.72	378.54	9,278.60	0.71	0.68	-0.19
20,642.00	89.82	179.62	11,825.33	-9,365.70	379.12	9,372.56	2.35	-2.35	-0.06
20,736.00	89.76	179.65	11,825.68	-9,459.70	379.72	9,466.54	0.07	-0.06	0.03
20,830.00	90.85	179.26	11,825.18	-9,553.69	380.61	9,560.52	1.23	1.16	-0.41
20,924.00	91.44	179.18	11,823.30	-9,647.67	381.89	9,654.49	0.63	0.63	-0.09
21,018.00	89.87	180.29	11,822.22	-9,741.65	382.33	9,748.46	2.05	-1.67	1.18
21,112.00	90.13	180.13	11,822.22	-9,835.65	381.98	9,842.41	0.32	0.28	-0.17
21,206.00	90.46	180.11	11,821.74	-9,929.65	381.78	9,936.37	0.35	0.35	-0.02
Latest MWD+IFR1+MS Survey@ 22332.00' MD									
21,300.00	91.02	179.65	11,820.53	-10,023.64	381.98	10,030.33	0.77	0.60	-0.49
First MWD+HRGM Survey@ 21300.00' MD									
21,394.00	88.98	180.53	11,820.53	-10,117.64	381.83	10,124.29	2.36	-2.17	0.94
21,487.00	88.78	180.45	11,822.34	-10,210.62	381.04	10,217.21	0.23	-0.22	-0.09
21,581.00	89.23	180.34	11,823.98	-10,304.60	380.39	10,311.14	0.49	0.48	-0.12
21,675.00	89.31	180.28	11,825.17	-10,398.59	379.88	10,405.08	0.11	0.09	-0.06
21,769.00	89.48	180.24	11,826.17	-10,492.58	379.45	10,499.03	0.19	0.18	-0.04
21,863.00	89.79	180.30	11,826.77	-10,586.58	379.01	10,592.98	0.34	0.33	0.06
21,957.00	90.13	180.18	11,826.83	-10,680.58	378.62	10,686.93	0.38	0.36	-0.13
22,050.00	90.32	179.88	11,826.47	-10,773.58	378.57	10,779.90	0.38	0.20	-0.32
22,144.00	90.32	179.91	11,825.94	-10,867.58	378.74	10,873.87	0.03	0.00	0.03
22,238.00	90.63	179.86	11,825.16	-10,961.57	378.93	10,967.83	0.33	0.33	-0.05
22,332.00	91.13	179.97	11,823.72	-11,055.56	379.07	11,061.79	0.54	0.53	0.12
22,425.00	91.47	180.08	11,821.61	-11,148.54	379.03	11,154.73	0.38	0.37	0.12
22,519.00	91.86	180.12	11,818.88	-11,242.50	378.87	11,248.65	0.42	0.41	0.04
22,613.00	92.03	179.67	11,815.69	-11,336.44	379.04	11,342.57	0.51	0.18	-0.48
22,707.00	92.14	180.65	11,812.27	-11,430.38	378.78	11,436.46	1.05	0.12	1.04
22,800.00	92.28	180.54	11,808.68	-11,523.31	377.81	11,529.32	0.19	0.15	-0.12
22,894.00	91.95	181.03	11,805.21	-11,617.23	376.52	11,623.18	0.63	-0.35	0.52
22,988.00	88.92	180.65	11,804.50	-11,711.21	375.15	11,717.08	3.25	-3.22	-0.40
23,082.00	89.03	180.26	11,806.18	-11,805.19	374.40	11,811.01	0.43	0.12	-0.41
23,176.00	89.43	179.86	11,807.44	-11,899.18	374.30	11,904.96	0.60	0.43	-0.43
23,270.00	89.76	179.49	11,808.11	-11,993.18	374.83	11,998.94	0.53	0.35	-0.39
23,364.00	90.69	179.63	11,807.74	-12,087.17	375.56	12,092.92	1.00	0.99	0.15
23,458.00	90.97	179.21	11,806.38	-12,181.16	376.51	12,186.90	0.54	0.30	-0.45
23,552.00	91.55	178.86	11,804.31	-12,275.12	378.09	12,280.87	0.72	0.62	-0.37



Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 28 Big Sinks 106H
Project:	Eddy County, NM	TVD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Site:	PLU 28 Big Sinks	MD Reference:	GL 3339' + 30' KB @ 3369.00usft (Cactus 118)
Well:	PLU 28 Big Sinks 106H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
23,646.00	90.07	180.18	11,802.98	-12,369.10	378.88	12,374.84	2.11	-1.57	1.40	
23,740.00	89.62	179.64	11,803.23	-12,463.10	379.02	12,468.80	0.75	-0.48	-0.57	
23,834.00	89.93	179.43	11,803.60	-12,557.10	379.79	12,562.79	0.40	0.33	-0.22	
23,927.00	90.63	179.22	11,803.15	-12,650.09	380.88	12,655.77	0.79	0.75	-0.23	
24,021.00	90.32	180.33	11,802.37	-12,744.08	381.25	12,749.74	1.23	-0.33	1.18	
24,115.00	90.63	181.09	11,801.59	-12,838.07	380.09	12,843.66	0.87	0.33	0.81	
24,209.00	91.22	180.37	11,800.07	-12,932.05	378.89	12,937.58	0.99	0.63	-0.77	
24,303.00	92.28	180.36	11,797.20	-13,026.01	378.29	13,031.48	1.13	1.13	-0.01	
24,397.00	90.88	180.57	11,794.61	-13,119.96	377.53	13,125.38	1.51	-1.49	0.22	
24,491.00	90.13	180.56	11,793.78	-13,213.96	376.60	13,219.31	0.80	-0.80	-0.01	
24,585.00	90.97	180.23	11,792.88	-13,307.95	375.95	13,313.25	0.96	0.89	-0.35	
24,671.00	91.78	179.98	11,790.82	-13,393.92	375.80	13,399.19	0.99	0.94	-0.29	
Latest MWD+HRGM Survey@ 24671.00' MD - PLU 28 BS 160H p7 LTP/BHL										
24,729.00	91.78	179.98	11,789.01	-13,451.89	375.82	13,457.14	0.00	0.00	0.00	
Projection to TD @ 24729.00' MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
228.00	227.99	1.99	0.64	First MWD+IFR1+MS Survey@ 228.00' MD	
21,206.00	11,821.74	-9,929.65	381.78	Latest MWD+IFR1+MS Survey@ 22332.00' MD	
21,300.00	11,820.53	-10,023.64	381.98	First MWD+HRGM Survey@ 21300.00' MD	
24,671.00	11,790.82	-13,393.92	375.80	Latest MWD+HRGM Survey@ 24671.00' MD	
24,729.00	11,789.01	-13,451.89	375.82	Projection to TD @ 24729.00' MD	

Checked By: _____ Approved By: _____ Date: _____

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

KZ 06/29/2018

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

Action 18798

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO PERMIAN OPERATING LLC. BUILDING 5 MIDLAND, TX79707	373075	18798	C-104C
6401 HOLIDAY HILL ROAD			
OCD Reviewer	Condition		
ksimmons	None		