

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

NEW MEXICO OIL CONSERVATION DIVISION
ARTESIA DISTRICT
SEP 08 2019
RECEIVED
AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015- 44839	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 321151	⁵ Property Name MUY WAYNO 18 FEDERAL	⁶ Well Number 104H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,165'

¹⁰ Surface Location

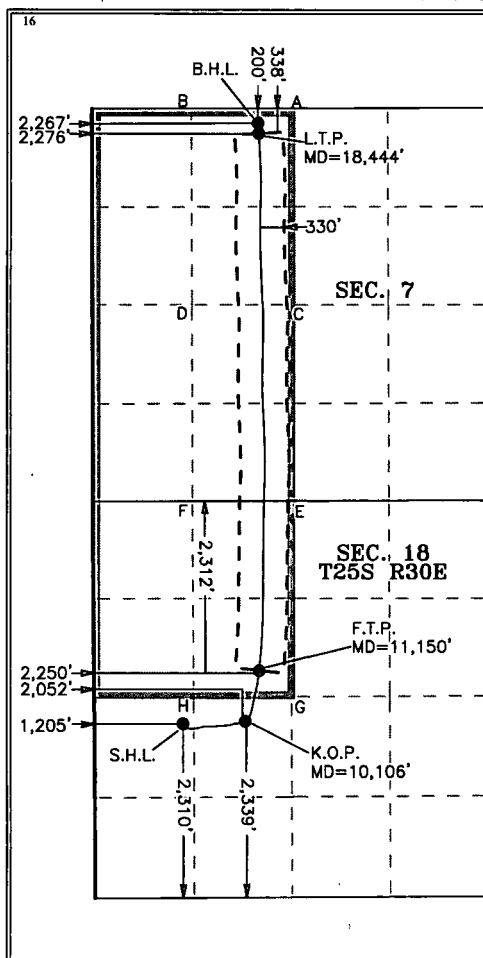
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	18	25 S	30 E		2,310	SOUTH	1,205	WEST	EDDY

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
C	7	25 S	30 E		200	NORTH	2,267	WEST	EDDY

¹² Dedicated Acres 483.44	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



GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 410,910.3
X= 626,396.2
LAT.= 32.129051°N
LONG.= 103.925025°W
K.O.P.
NAD 27 NME
Y= 410,943.8
X= 627,242.9
LAT.= 32.129134°N
LONG.= 103.922290°W
FIRST TAKE POINT
NAD 27 NME
Y= 411,611.7
X= 627,436.9
LAT.= 32.130968°N
LONG.= 103.921655°W
NAD 83 NME
SURFACE LOCATION
Y= 410,968.6
X= 667,580.8
LAT.= 32.129175°N
LONG.= 103.925510°W
K.O.P.
NAD 83 NME
Y= 411,002.1
X= 668,427.6
LAT.= 32.129258°N
LONG.= 103.922774°W
FIRST TAKE POINT
NAD 83 NME
Y= 411,670.0
X= 668,621.5
LAT.= 32.131092°N
LONG.= 103.922140°W
CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 419,236.3 N, X= 627,843.0 E
B - Y= 419,230.0 N, X= 626,505.6 E
C - Y= 416,584.3 N, X= 627,852.8 E
D - Y= 416,580.8 N, X= 626,517.9 E
E - Y= 413,925.0 N, X= 627,862.7 E
F - Y= 413,919.9 N, X= 626,527.4 E
G - Y= 411,266.7 N, X= 627,877.5 E
H - Y= 411,260.6 N, X= 626,542.4 E
CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 419,294.7 N, X= 669,027.4 E
B - Y= 419,288.4 N, X= 667,690.0 E
C - Y= 416,642.7 N, X= 669,037.3 E
D - Y= 416,639.2 N, X= 667,702.4 E
E - Y= 413,983.3 N, X= 669,047.3 E
F - Y= 413,978.2 N, X= 667,712.0 E
G - Y= 411,325.0 N, X= 669,062.2 E
H - Y= 411,318.9 N, X= 667,727.0 E
LAST TAKE POINT
NAD 27 NME
Y= 418,896.0
X= 627,427.2
LAT.= 32.150992°N
LONG.= 103.921596°W
LAST TAKE POINT
NAD 83 NME
Y= 418,954.4
X= 668,611.6
LAT.= 32.151116°N
LONG.= 103.922081°W
BOTTOM HOLE LOCATION
NAD 27 NME
Y= 419,034.2
X= 627,417.4
LAT.= 32.151372°N
LONG.= 103.921626°W
BOTTOM HOLE LOCATION
NAD 83 NME
Y= 419,092.6
X= 668,601.8
LAT.= 32.151496°N
LONG.= 103.922111°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: Cheryl Rowell
Date: 9/4/19
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.

9-4-2019
Date of Survey
Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR
JC 2017060871

NM OIL CONSERVATION
ARTESIA DISTRICT

Intent ☐ As Drilled ☒ XX

SEP 08 2019

API #
30-015-44839

RECEIVED

Operator Name:	Property Name:	Well Number
XTO ENERGY, INC.	Muy Wayno 18 Federal	104H

Kick Off Point (KOP)

UL K	Section 18	Township 25S	Range 30E	Lot	Feet 2339	From N/S South	Feet 2052	From E/W West	County Eddy
Latitude 32.129258					Longitude 103.922774			NAD 83	

First Take Point (FTP)

UL F	Section 18	Township 25S	Range 30E	Lot	Feet 2312	From N/S North	Feet 2250	From E/W West	County Eddy
Latitude 32.131092					Longitude 103.922140			NAD 83	

Last Take Point (LTP)

UL C	Section 7	Township 25S	Range 30E	Lot	Feet 338	From N/S North	Feet 2276	From E/W West	County Eddy
Latitude 32.151116					Longitude 103.922081			NAD 83	

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

Is this well an infill well? ☒ X

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

API #
30-015-44838

Operator Name:	Property Name:	Well Number
XTO ENERGY, INC.	Muy Wayno 18 Federal	102H

KZ 06/29/2018

SEP 09 2019



Wellbenders

End Of Well Report

RECEIVED



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Project	Eddy County, NM (Nad-27 / East Zone)		
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	Muy Wayno 18 Federal		
Site Position:		Northing:	410,905.90 usft
From:	Map	Easting:	625,541.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.129047
		Longitude:	-103.927788
		Grid Convergence:	0.216 °

Well	#104H					
Well Position	+N-S	0.00 usft	Northing:	410,910.30 usft	Latitude:	32.129050
	+E-W	0.00 usft	Easting:	626,396.00 usft	Longitude:	-103.925026
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,165.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/30/2018	6.963	59.902	47,705.57498109

Design	OH			
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	359.72

Survey Program	Date 2/6/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
111.00	18,583.00	Survey #1 (OH)	WBDS_IGRF	OWSG MWD + IGRF or WMM



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111.00	0.40	178.10	111.00	-0.39	0.01	-0.39	111.00	178.10	0.36
196.00	0.50	160.50	196.00	-1.03	0.15	-1.03	85.00	168.31	0.20
284.00	0.40	163.70	283.99	-1.69	0.36	-1.69	88.00	161.92	0.12
378.00	0.60	144.10	377.99	-2.40	0.74	-2.41	94.00	151.92	0.28
476.00	0.40	123.30	475.99	-3.01	1.33	-3.01	98.00	135.80	0.27
569.00	0.90	148.30	568.98	-3.81	1.98	-3.82	93.00	140.67	0.61
663.00	1.00	144.40	662.97	-5.10	2.85	-5.12	94.00	146.25	0.13
758.00	1.00	122.60	757.95	-6.22	4.03	-6.24	95.00	133.50	0.40
853.00	1.00	106.20	852.94	-6.90	5.52	-6.93	95.00	114.40	0.30
867.00	1.10	101.40	866.94	-6.96	5.77	-6.99	14.00	103.69	0.95
948.00	1.30	103.30	947.92	-7.33	7.43	-7.36	81.00	102.43	0.25
1,042.00	1.30	111.20	1,041.89	-7.96	9.46	-8.00	94.00	107.25	0.19
1,137.00	1.80	127.20	1,136.86	-9.25	11.65	-9.31	95.00	120.50	0.69
1,231.00	1.60	133.00	1,230.82	-11.04	13.79	-11.10	94.00	129.93	0.28
1,327.00	1.60	147.40	1,326.78	-13.08	15.49	-13.16	96.00	140.20	0.42
1,421.00	3.40	147.10	1,420.69	-16.53	17.71	-16.61	94.00	147.20	1.91
1,516.00	3.20	146.10	1,515.53	-21.09	20.72	-21.19	95.00	146.62	0.22
1,610.00	2.60	161.50	1,609.41	-25.29	22.86	-25.40	94.00	153.00	1.04
1,703.00	3.00	160.50	1,702.30	-29.59	24.34	-29.70	93.00	160.96	0.43
1,798.00	3.30	166.40	1,797.16	-34.59	25.82	-34.71	95.00	163.59	0.46
1,892.00	2.90	155.40	1,891.02	-39.38	27.44	-39.51	94.00	161.26	0.76
1,986.00	3.00	150.50	1,984.90	-43.68	29.64	-43.83	94.00	152.91	0.29
2,081.00	3.10	157.00	2,079.76	-48.21	31.87	-48.37	95.00	153.80	0.38
2,175.00	1.90	147.60	2,173.67	-51.87	33.70	-52.03	94.00	153.43	1.34
2,269.00	1.60	132.60	2,267.63	-54.07	35.50	-54.24	94.00	140.75	0.58
2,363.00	2.00	120.70	2,361.58	-55.80	37.88	-55.98	94.00	125.99	0.58



Wellbenders
End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
2,456.00	1.50	90.20	2,454.54	-56.63	40.49	-56.83	93.00	107.68	1.12
2,549.00	1.90	109.20	2,547.50	-57.14	43.16	-57.35	93.00	100.83	0.74
2,642.00	1.70	108.10	2,640.45	-58.07	45.93	-58.30	93.00	108.68	0.22
2,737.00	1.70	109.80	2,735.41	-58.99	48.60	-59.23	95.00	108.95	0.05
2,831.00	2.20	118.60	2,829.36	-60.33	51.49	-60.58	94.00	114.76	0.62
2,925.00	3.30	94.50	2,923.25	-61.40	55.77	-61.67	94.00	104.11	1.67
3,019.00	3.90	89.50	3,017.06	-61.59	61.67	-61.89	94.00	91.79	0.72
3,112.00	4.20	96.90	3,109.83	-61.97	68.21	-62.30	93.00	93.34	0.65
3,207.00	4.80	101.20	3,204.54	-63.16	75.56	-63.53	95.00	99.19	0.72
3,301.00	5.50	102.70	3,298.16	-64.91	83.82	-65.32	94.00	102.00	0.76
3,365.00	5.40	100.50	3,361.87	-66.14	89.77	-66.57	64.00	101.61	0.36
3,513.00	5.20	98.90	3,509.24	-68.44	103.24	-68.95	148.00	99.72	0.17
3,607.00	7.00	91.40	3,602.70	-69.24	113.18	-69.79	94.00	94.60	2.09
3,702.00	9.50	81.60	3,696.72	-68.24	126.72	-68.86	95.00	85.76	3.01
3,796.00	9.30	80.00	3,789.45	-65.78	141.88	-66.48	94.00	80.81	0.35
3,890.00	9.00	80.80	3,882.26	-63.29	156.62	-64.05	94.00	80.39	0.35
3,985.00	8.60	79.90	3,976.14	-60.86	170.94	-61.69	95.00	80.36	0.45
4,080.00	8.20	79.50	4,070.12	-58.38	184.60	-59.28	95.00	79.70	0.43
4,175.00	7.90	78.10	4,164.18	-55.80	197.65	-56.76	95.00	78.81	0.38
4,270.00	7.70	77.60	4,258.31	-53.08	210.25	-54.11	95.00	77.85	0.22
4,364.00	7.20	77.20	4,351.51	-50.43	222.15	-51.51	94.00	77.41	0.53
4,459.00	6.60	75.70	4,445.82	-47.76	233.24	-48.90	95.00	76.48	0.66
4,552.00	7.20	78.30	4,538.15	-45.26	244.13	-46.45	93.00	77.06	0.73
4,646.00	8.50	81.40	4,631.27	-43.02	256.77	-44.28	94.00	79.98	1.45
4,740.00	9.00	81.70	4,724.17	-40.92	270.91	-42.25	94.00	81.55	0.53
4,834.00	9.10	86.90	4,817.00	-39.46	285.61	-40.85	94.00	84.31	0.88
4,929.00	8.60	88.30	4,910.87	-38.84	300.21	-40.31	95.00	87.58	0.57



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
5,024.00	8.00	86.90	5,004.88	-38.27	313.91	-39.81	95.00	87.63	0.67
5,118.00	7.30	87.30	5,098.04	-37.64	326.41	-39.23	94.00	87.09	0.75
5,213.00	8.40	90.00	5,192.15	-37.35	339.38	-39.01	95.00	88.74	1.22
5,307.00	8.90	91.20	5,285.08	-37.51	353.51	-39.23	94.00	90.62	0.57
5,402.00	8.50	91.00	5,378.99	-37.78	367.88	-39.58	95.00	91.10	0.42
5,496.00	8.40	91.70	5,471.97	-38.11	381.69	-39.97	94.00	91.35	0.15
5,591.00	8.10	91.80	5,565.98	-38.52	395.31	-40.46	95.00	91.75	0.32
5,686.00	8.60	83.80	5,659.98	-37.97	409.07	-39.97	95.00	87.68	1.33
5,780.00	8.40	82.20	5,752.95	-36.28	422.86	-38.34	94.00	83.01	0.33
5,874.00	7.80	80.80	5,846.01	-34.32	435.95	-36.45	94.00	81.53	0.67
5,967.00	8.80	81.60	5,938.03	-32.28	449.22	-34.47	93.00	81.22	1.08
6,062.00	8.80	83.90	6,031.91	-30.44	463.64	-32.71	95.00	82.75	0.37
6,156.00	7.90	85.90	6,124.92	-29.22	477.23	-31.55	94.00	84.85	1.01
6,251.00	7.60	86.80	6,219.05	-28.40	490.01	-30.79	95.00	86.34	0.34
6,345.00	7.40	87.90	6,312.25	-27.83	502.27	-30.28	94.00	87.34	0.26
6,440.00	8.80	86.10	6,406.30	-27.11	515.63	-29.63	95.00	86.92	1.50
6,535.00	9.30	85.30	6,500.11	-25.99	530.53	-28.58	95.00	85.69	0.54
6,629.00	8.90	87.10	6,592.93	-25.00	545.37	-27.66	94.00	86.18	0.52
6,725.00	8.60	90.70	6,687.81	-24.71	559.96	-27.45	96.00	88.87	0.65
6,819.00	8.30	90.40	6,780.79	-24.84	573.77	-27.65	94.00	90.55	0.32
6,914.00	7.00	83.90	6,874.95	-24.28	586.39	-27.14	95.00	87.42	1.64
7,009.00	8.30	80.00	6,969.10	-22.47	598.90	-25.40	95.00	81.79	1.47
7,103.00	8.60	79.50	7,062.08	-20.01	612.49	-23.00	94.00	79.75	0.33
7,197.00	7.80	79.90	7,155.12	-17.61	625.68	-20.67	94.00	79.69	0.85
7,292.00	7.40	79.50	7,249.28	-15.37	638.04	-18.48	95.00	79.71	0.42
7,387.00	7.50	73.50	7,343.48	-12.49	650.00	-15.67	95.00	76.48	0.83
7,480.00	7.70	72.00	7,435.67	-8.84	661.75	-12.08	93.00	72.74	0.30



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
7,575.00	7.40	75.40	7,529.84	-5.33	673.72	-8.63	95.00	73.67	0.57
7,670.00	7.20	76.50	7,624.07	-2.40	685.43	-5.75	95.00	75.94	0.26
7,764.00	6.40	72.60	7,717.41	0.54	696.16	-2.86	94.00	74.66	0.98
7,858.00	7.20	86.30	7,810.75	2.49	707.03	-0.97	94.00	79.85	1.92
7,954.00	6.60	90.30	7,906.06	2.85	718.55	-0.66	96.00	88.21	0.80
8,048.00	5.90	93.60	7,999.50	2.52	728.78	-1.05	94.00	91.86	0.84
8,143.00	5.00	93.20	8,094.07	1.98	737.78	-1.63	95.00	93.42	0.95
8,237.00	4.30	73.50	8,187.77	2.75	745.25	-0.89	94.00	84.10	1.84
8,331.00	4.10	64.20	8,281.51	5.21	751.66	1.54	94.00	68.96	0.75
8,426.00	3.70	65.30	8,376.29	7.97	757.50	4.27	95.00	64.72	0.43
8,520.00	3.40	64.00	8,470.11	10.46	762.76	6.73	94.00	64.68	0.33
8,616.00	2.90	63.40	8,565.97	12.80	767.49	9.05	96.00	63.72	0.52
8,710.00	1.90	53.90	8,659.89	14.78	770.88	11.01	94.00	59.64	1.14
8,804.00	1.80	52.40	8,753.84	16.60	773.31	12.82	94.00	53.17	0.12
8,898.00	2.10	38.90	8,847.78	18.84	775.56	15.05	94.00	45.13	0.58
8,993.00	1.50	47.40	8,942.74	21.04	777.57	17.24	95.00	42.44	0.69
9,087.00	0.90	18.40	9,036.72	22.57	778.70	18.76	94.00	36.60	0.89
9,182.00	0.50	61.90	9,131.71	23.47	779.31	19.66	95.00	33.65	0.67
9,276.00	0.60	104.30	9,225.70	23.54	780.14	19.73	94.00	85.12	0.43
9,371.00	2.40	93.20	9,320.67	23.31	782.61	19.49	95.00	95.41	1.91
9,465.00	3.90	81.50	9,414.52	23.67	787.74	19.82	94.00	85.95	1.73
9,560.00	6.20	77.60	9,509.15	25.25	795.95	21.36	95.00	79.11	2.45
9,654.00	6.30	81.70	9,602.59	27.09	806.01	23.15	94.00	79.67	0.49
9,750.00	6.30	82.00	9,698.01	28.58	816.44	24.59	96.00	81.85	0.03
9,843.00	5.70	83.20	9,790.50	29.84	826.07	25.80	93.00	82.57	0.66
9,938.00	4.40	84.40	9,885.13	30.75	834.39	26.67	95.00	83.72	1.37
9,982.00	4.00	84.60	9,929.01	31.06	837.59	26.97	44.00	84.50	0.91



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
10,050.00	3.60	84.30	9,996.86	31.50	842.08	27.38	68.00	84.46	0.59	
10,144.00	7.30	59.00	10,090.43	34.87	850.14	30.71	94.00	67.30	4.60	
10,191.00	11.10	50.40	10,136.82	39.29	856.19	35.11	47.00	53.82	8.58	
10,239.00	15.10	45.80	10,183.57	46.60	864.23	42.37	48.00	47.75	8.61	
10,286.00	20.30	39.50	10,228.33	57.16	873.81	52.89	47.00	42.20	11.78	
10,333.00	24.10	37.20	10,271.84	71.10	884.81	66.78	47.00	38.26	8.29	
10,380.00	27.20	33.80	10,314.20	87.68	896.59	83.30	47.00	35.40	7.30	
10,428.00	29.00	30.40	10,356.55	106.83	908.58	102.39	48.00	32.05	5.02	
10,475.00	31.60	21.90	10,397.14	128.10	918.94	123.61	47.00	25.98	10.66	
10,522.00	35.00	15.90	10,436.43	152.50	927.23	147.97	47.00	18.76	10.07	
10,569.00	41.50	13.00	10,473.32	180.67	934.44	176.10	47.00	14.35	14.34	
10,617.00	47.40	12.30	10,507.57	213.45	941.79	208.85	48.00	12.63	12.33	
10,664.00	53.80	13.20	10,537.39	248.86	949.81	244.21	47.00	12.77	13.70	
10,711.00	59.20	13.40	10,563.32	286.98	958.82	282.29	47.00	13.30	11.49	
10,758.00	63.50	13.90	10,585.85	327.05	968.56	322.32	47.00	13.66	9.20	
10,805.00	68.60	13.30	10,604.92	368.79	978.65	364.00	47.00	13.59	10.91	
10,853.00	72.40	13.20	10,620.94	412.82	989.02	407.98	48.00	13.25	7.92	
10,900.00	76.60	12.50	10,633.50	456.97	999.09	452.08	47.00	12.85	9.05	
10,947.00	80.20	12.00	10,642.95	501.95	1,008.85	497.02	47.00	12.25	7.73	
10,994.00	84.00	10.40	10,649.41	547.61	1,017.89	542.63	47.00	11.20	8.76	
11,032.00	84.80	8.90	10,653.12	584.89	1,024.23	579.88	38.00	9.65	4.46	
11,131.00	86.68	7.89	10,660.47	682.56	1,038.64	677.47	99.00	8.39	2.15	
11,225.00	86.86	4.73	10,665.77	775.83	1,048.95	770.69	94.00	6.31	3.36	
11,320.00	88.35	4.73	10,669.74	870.42	1,056.78	865.24	95.00	4.73	1.57	
11,415.00	91.30	3.32	10,670.03	965.17	1,063.45	959.96	95.00	4.02	3.44	
11,508.00	91.21	3.32	10,667.99	1,057.99	1,068.83	1,052.76	93.00	3.32	0.10	
11,602.00	90.86	3.41	10,666.29	1,151.82	1,074.35	1,146.55	94.00	3.37	0.38	



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
11,696.00	91.08	3.06	10,664.70	1,245.65	1,079.65	1,240.36	94.00	3.24	0.44
11,790.00	90.51	2.18	10,663.40	1,339.54	1,083.95	1,334.23	94.00	2.62	1.12
11,884.00	88.48	1.39	10,664.23	1,433.49	1,086.88	1,428.16	94.00	1.79	2.32
11,978.00	90.68	1.13	10,664.92	1,527.46	1,088.94	1,522.12	94.00	1.26	2.36
12,072.00	89.36	0.86	10,664.88	1,621.44	1,090.58	1,616.09	94.00	0.99	1.43
12,166.00	91.08	0.60	10,664.52	1,715.43	1,091.77	1,710.07	94.00	0.73	1.85
12,261.00	89.23	359.63	10,664.27	1,810.42	1,091.97	1,805.07	95.00	0.11	2.20
12,355.00	92.97	0.86	10,662.46	1,904.39	1,092.37	1,899.03	94.00	0.24	4.19
12,449.00	93.36	1.04	10,657.27	1,998.23	1,093.92	1,992.86	94.00	0.95	0.46
12,543.00	93.58	1.04	10,651.58	2,092.04	1,095.63	2,086.66	94.00	1.04	0.23
12,637.00	90.02	0.16	10,648.63	2,185.97	1,096.61	2,180.59	94.00	0.60	3.90
12,732.00	91.21	1.39	10,647.61	2,280.96	1,097.89	2,275.56	95.00	0.77	1.80
12,826.00	91.69	1.30	10,645.23	2,374.90	1,100.10	2,369.50	94.00	1.35	0.52
12,921.00	91.12	359.81	10,642.90	2,469.86	1,101.02	2,464.45	95.00	0.55	1.68
13,015.00	92.22	359.89	10,640.16	2,563.82	1,100.77	2,558.41	94.00	359.85	1.17
13,110.00	94.02	0.86	10,634.99	2,658.68	1,101.39	2,653.26	95.00	0.37	2.15
13,204.00	90.55	0.60	10,631.25	2,752.58	1,102.59	2,747.16	94.00	0.73	3.70
13,298.00	89.63	359.89	10,631.10	2,846.58	1,102.99	2,841.15	94.00	0.24	1.24
13,393.00	92.97	1.65	10,628.94	2,941.53	1,104.27	2,936.09	95.00	0.77	3.97
13,487.00	89.80	0.42	10,626.67	3,035.47	1,105.96	3,030.03	94.00	1.03	3.62
13,580.00	91.08	1.74	10,625.96	3,128.45	1,107.72	3,123.00	93.00	1.08	1.98
13,674.00	90.55	3.41	10,624.62	3,222.34	1,111.94	3,216.87	94.00	2.58	1.86
13,768.00	84.92	1.56	10,628.33	3,316.13	1,116.01	3,310.64	94.00	2.49	6.30
13,862.00	83.74	0.60	10,637.62	3,409.65	1,117.78	3,404.15	94.00	1.08	1.62
13,956.00	86.90	359.46	10,645.29	3,503.33	1,117.82	3,497.82	94.00	0.03	3.57
14,050.00	89.93	358.84	10,647.89	3,597.27	1,116.43	3,591.77	94.00	359.15	3.29
14,143.00	87.60	357.87	10,649.89	3,690.20	1,113.76	3,684.72	93.00	358.36	2.71



Wellbenders
End Of Well Report



Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
Well: #104H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #104H
TVD Reference: RKB = 26' @ 3191.00usft (PAT 225)
MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
14,237.00	90.33	358.75	10,651.59	3,784.14	1,110.99	3,778.66	94.00	358.31	3.05
14,331.00	90.15	358.14	10,651.20	3,878.10	1,108.44	3,872.64	94.00	358.44	0.68
14,425.00	90.33	358.05	10,650.80	3,972.05	1,105.31	3,966.60	94.00	358.10	0.21
14,520.00	90.33	357.79	10,650.26	4,066.98	1,101.86	4,061.55	95.00	357.92	0.27
14,614.00	89.14	357.26	10,650.69	4,160.89	1,097.81	4,155.48	94.00	357.53	1.39
14,708.00	89.45	357.26	10,651.85	4,254.78	1,093.31	4,249.38	94.00	357.26	0.33
14,802.00	88.44	356.73	10,653.58	4,348.63	1,088.39	4,343.26	94.00	357.00	1.21
14,896.00	88.66	357.52	10,655.96	4,442.48	1,083.67	4,437.13	94.00	357.13	0.87
14,989.00	90.73	0.60	10,656.45	4,535.45	1,082.15	4,530.11	93.00	359.06	3.99
15,083.00	91.38	0.33	10,654.72	4,629.43	1,082.91	4,624.09	94.00	0.47	0.75
15,177.00	91.74	359.98	10,652.16	4,723.40	1,083.16	4,718.05	94.00	0.16	0.53
15,271.00	90.33	0.33	10,650.46	4,817.38	1,083.42	4,812.03	94.00	0.16	1.55
15,364.00	89.45	0.42	10,650.64	4,910.38	1,084.03	4,905.02	93.00	0.37	0.95
15,458.00	88.75	0.69	10,652.12	5,004.36	1,084.94	4,999.00	94.00	0.55	0.80
15,552.00	87.96	1.56	10,654.82	5,098.30	1,086.78	5,092.93	94.00	1.12	1.25
15,646.00	87.38	2.18	10,658.64	5,192.17	1,089.85	5,186.78	94.00	1.87	0.90
15,741.00	86.07	2.00	10,664.07	5,286.95	1,093.31	5,281.55	95.00	2.09	1.39
15,835.00	86.55	1.04	10,670.12	5,380.72	1,095.79	5,375.30	94.00	1.52	1.14
15,929.00	88.53	357.87	10,674.15	5,474.61	1,094.90	5,469.20	94.00	359.45	3.97
16,024.00	89.23	356.73	10,676.01	5,569.49	1,090.42	5,564.09	95.00	357.30	1.41
16,117.00	92.70	357.17	10,674.44	5,662.33	1,085.48	5,656.96	93.00	356.95	3.76
16,212.00	91.78	356.47	10,670.73	5,757.11	1,080.21	5,751.76	95.00	356.82	1.22
16,307.00	91.43	356.03	10,668.07	5,851.87	1,074.00	5,846.55	95.00	356.25	0.59
16,401.00	92.09	358.14	10,665.18	5,945.70	1,069.22	5,940.40	94.00	357.08	2.35
16,495.00	91.74	358.31	10,662.04	6,039.60	1,066.31	6,034.32	94.00	358.23	0.41
16,590.00	91.56	358.66	10,659.30	6,134.53	1,063.80	6,129.25	95.00	358.49	0.41
16,683.00	90.33	357.61	10,657.77	6,227.46	1,060.78	6,222.20	93.00	358.13	1.74



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Site:	Muy Wayno 18 Federal	MD Reference:	RKB = 26' @ 3191.00usft (PAT 225)
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
16,778.00	88.70	356.99	10,658.58	6,322.35	1,056.30	6,317.11	95.00	357.30	1.84
16,872.00	91.74	358.31	10,658.21	6,416.26	1,052.45	6,411.04	94.00	357.65	3.53
16,966.00	92.48	359.89	10,654.75	6,510.18	1,050.97	6,504.96	94.00	359.10	1.86
17,060.00	91.96	0.07	10,651.11	6,604.11	1,050.94	6,598.89	94.00	359.98	0.59
17,155.00	91.56	359.72	10,648.19	6,699.06	1,050.76	6,693.85	95.00	359.89	0.56
17,249.00	91.56	359.89	10,645.64	6,793.03	1,050.44	6,787.81	94.00	359.80	0.18
17,343.00	90.55	0.86	10,643.90	6,887.00	1,051.06	6,881.79	94.00	0.38	1.49
17,437.00	91.21	2.53	10,642.46	6,980.95	1,053.84	6,975.72	94.00	1.69	1.91
17,531.00	89.14	2.00	10,642.17	7,074.87	1,057.55	7,069.62	94.00	2.26	2.27
17,626.00	88.04	1.04	10,644.51	7,169.80	1,060.07	7,164.54	95.00	1.52	1.54
17,719.00	87.82	359.89	10,647.87	7,262.74	1,060.83	7,257.47	93.00	0.47	1.26
17,814.00	87.16	359.63	10,652.03	7,357.65	1,060.43	7,352.38	95.00	359.76	0.75
17,907.00	87.47	358.84	10,656.39	7,450.54	1,059.19	7,445.27	93.00	359.23	0.91
18,001.00	87.96	357.61	10,660.14	7,544.41	1,056.28	7,539.16	94.00	358.22	1.41
18,095.00	87.34	357.17	10,663.99	7,638.24	1,052.00	7,633.00	94.00	357.39	0.81
18,190.00	85.45	356.38	10,669.96	7,732.89	1,046.67	7,727.69	95.00	356.78	2.16
18,284.00	86.37	356.38	10,676.67	7,826.47	1,040.75	7,821.29	94.00	356.38	0.98
18,378.00	85.89	356.55	10,683.01	7,920.07	1,034.97	7,914.92	94.00	356.46	0.54
18,472.00	84.75	355.50	10,690.68	8,013.53	1,028.48	8,008.41	94.00	356.03	1.65
18,530.00	85.58	356.03	10,695.57	8,071.17	1,024.21	8,066.06	58.00	355.77	1.70
18,583.00	85.58	356.03	10,699.65	8,123.88	1,020.55	8,118.80	53.00	356.03	0.00
Final Station Closure Distance= 8187.73 /Direction= 7.16 - Projection to Bit: 18583.00' MD/ 10699.65' TVD - TD: Latitude = 32.151372 / Longitude = -103.921629 - TD: Y= 419034.18 / X= 627416.55									



Wellbenders
End Of Well Report



Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
Well: #104H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #104H
MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: RKB = 26' @ 3191.00usft (PAT 225)
Survey Calculation Method: Grid
Database: Minimum Curvature
WBDS_SQL_2

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,583.00	10,699.65	8,123.88	1,020.55	Final Station Closure Distance= 8187.73 /Direction= 7.16
18,583.00	10,699.65	8,123.88	1,020.55	Projection to Bit: 18583.00' MD/ 10699.65' TVD
18,583.00	10,699.65	8,123.88	1,020.55	TD: Latitude = 32.151372 / Longitude = -103.921629
18,583.00	10,699.65	8,123.88	1,020.55	TD: Y= 419034.18 / X= 627416.55

Checked By: _____ Approved By: _____ Date: _____