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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 30-015-46326	² Pool Code 96217	³ Pool Name Willow Lake; Bone Spring SE
⁴ Property Code 322863	⁵ Property Name CORRAL CANYON 3 FED COM	⁶ Well Number 22H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,031'

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
C	10	25 S	29 E		500	NORTH	2,440	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
3	3	25 S	29 E		71	NORTH	1,965	WEST	EDDY

¹² Dedicated Acres 159.85	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 PLAT BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY

LOT TABLE SECTION 3, T25S, R29E LOT 1 - 39.65 ACRES LOT 2 - 39.75 ACRES LOT 3 - 39.85 ACRES LOT 4 - 39.95 ACRES	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 418,642.7 X = 611,674.6 LAT. = 32.150451°N LONG. = 103.972497°W FIRST TAKE POINT NAD 27 NME Y = 419,278.2 X = 611,216.2 LAT. = 32.152202°N LONG. = 103.973971°W CORNER COORDINATES TABLE NAD 27 NME A - Y = 419,144.2 N, X = 611,882.0 E B - Y = 419,135.7 N, X = 610,558.0 E C - Y = 421,798.1 N, X = 611,875.2 E D - Y = 421,789.7 N, X = 610,546.7 E E - Y = 424,447.5 N, X = 611,866.9 E F - Y = 424,441.8 N, X = 610,533.9 E CORNER COORDINATES TABLE NAD 83 NME A - Y = 419,202.6 N, X = 653,066.6 E B - Y = 419,194.1 N, X = 651,742.5 E C - Y = 421,856.6 N, X = 653,059.3 E D - Y = 421,848.2 N, X = 651,730.8 E E - Y = 424,506.0 N, X = 653,051.3 E F - Y = 424,500.3 N, X = 651,718.3 E LAST TAKE POINT NAD 27 NME Y = 424,276.4 X = 611,163.8 LAT. = 32.165943°N LONG. = 103.974087°W BOTTOM HOLE LOCATION NAD 27 NME Y = 424,373.2 X = 611,166.6 LAT. = 32.166209°N LONG. = 103.974077°W LAST TAKE POINT NAD 83 NME Y = 424,335.0 X = 652,347.9 LAT. = 32.166066°N LONG. = 103.974574°W BOTTOM HOLE LOCATION NAD 83 NME Y = 424,431.8 X = 652,350.7 LAT. = 32.166332°N LONG. = 103.974564°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. <i>Cassie Evans</i> 09/12/2020 Signature Date Cassie Evans Printed Name cassie_evans@xtoenergy.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. 9-3-2020 Date of Survey Signature and Seal of Professional Surveyor: <i>Mark Dillon Harp</i> MARK DILLON HARP 23786 Certificate Number JC 2017091549
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number



MWD SURVEY CERTIFICATION

Legacy Directional Drilling, LLC.

State of NEW MEXICO

County of Eddy

I, Brandon Cox certify that; I am employed by Legacy Directional Drilling, LLC.;

that I did on the day(s) of October 25, 2019 through November 24, 2019 conduct or supervise

the taking of a MWD survey from a depth of 171 Feet to a depth of 14404 Feet;

that the data is true, correct, complete and within the limitations of the tool set forth by

Legacy Directional Drilling, LLC.; that I am authorized and qualified to make this report; that this survey was

conducted at the request of XTO ENERGY INC. for the

CORRAL CANYON 3 FEDERAL COM No. 22H Well, A.P.I No. 30-015-46326 in

WILLOW LAKE; BONE SPRING SE Field and that I have reviewed this report and find that it conforms

to the principles and procedures set forth by Legacy Directional Drilling, LLC.

Brandon Cox

Surveyor's Signature

MWD Field Operator

Title

Mark L. Miller

Supervisor's Signature

Mark L. Miller

Printed Name

V.P. Technology

Title



Legacy Directional Drilling, LLC.
MWD Survey Data Certification

OPERATOR:	XTO ENERGY INC.	JOB NUMBER:	HU190210
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WELL NAME:	CORRAL CANYON 3 FEDERAL COM NO. 22H	COUNTY & STATE:	EDDY Co., NM
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FIELD:	WILLOW LAKE; BONE SPRING SE	API NUMBER:	30-015-46326
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TIE-IN DATA							
DEPTH (FT)	INC (°)	AZM (°)	TVD (FT)	N/S (FT)	E/W (FT)	PROPOSED DIRECTION	DATA SOURCE
0	0	0	0	0	0	359.26	

FIRST SURVEY			
DATE	DEPTH (FT)	INC (°)	AZM (°)
25-Oct-2019	171	0.65	116.84

SURVEY INSTRUMENT TYPE:	Legacy MWD
TOTAL CORRECTION USED:	6.73
NORTH REFERENCE:	GRID

LAST SURVEY			
DATE	DEPTH (FT)	INC (°)	AZM (°)
24-Nov-2019	14353	94.29	1.45

TO THE BEST OF MY KNOWLEDGE I CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT

PROJECTION TO TD			
DATE	DEPTH (FT)	INC (°)	AZM (°)
24-Nov-2019	14404	94.29	1.45

Brandon Cox

Print Name

MWD OPERATOR(S) PERFORMING SURVEYS:

KEVIN LUCAS

NEILL COOPER

BRANDON COX

Brandon Cox

Signature

November 24, 2019

Today's Date



Directional Survey Report

Company Name: XTO ENERGY INC.

State/Prov: NM

Survey Company: Legacy Directional

Proposed Azimuth: 359.26°

Well Name: CORRAL CANYON 3 FEDERAL COM #022H

County: Eddy

Job Number: HU190210

Declination: 6.73°

Field: WILLOW LAKE; BONE SPRING SE

Location: 19.6 MI SW OF LOVING, NM

Latitude: 32° 9' 1.624" N

North Reference: GRID

Rig ID: AKITA 803

API/UWI: 30-015-46326

Longitude: 103° 58' 20.989" W

KB: 3062 FT

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
Tie-In	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.26	0
1	171	0.65	116.84	171.00	-0.44	0.87	-0.45	0.38	171.00	0.97	116.84	58.6
2	264	0.79	143.08	263.99	-1.19	1.72	-1.21	0.38	93.00	2.09	124.63	58.6
3	355	0.86	129.93	354.98	-2.13	2.62	-2.16	0.22	91.00	3.38	129.07	65.9
4	447	1.04	134.83	446.97	-3.16	3.74	-3.21	0.21	92.00	4.90	130.17	65.9
5	537	0.87	163.15	536.96	-4.39	4.52	-4.45	0.55	90.00	6.30	134.16	95.0
6	552	0.80	160.98	551.95	-4.60	4.59	-4.66	0.51	15.00	6.50	135.06	95.0
7	659	1.07	187.11	658.94	-6.30	4.71	-6.36	0.47	107.00	7.86	143.21	73.1
8	749	1.18	188.97	748.92	-8.04	4.46	-8.10	0.13	90.00	9.20	151.00	73.1
9	840	1.08	196.21	839.90	-9.79	4.07	-9.85	0.19	91.00	10.61	157.42	73.1
10	930	1.17	201.38	929.89	-11.46	3.50	-11.51	0.15	90.00	11.99	163.01	73.1
11	1020	1.19	210.64	1019.87	-13.12	2.69	-13.16	0.21	90.00	13.40	168.41	80.4
12	1110	1.36	206.13	1109.85	-14.89	1.74	-14.91	0.22	90.00	14.99	173.32	80.4
13	1201	1.40	211.89	1200.82	-16.80	0.68	-16.81	0.16	91.00	16.81	177.68	87.7
14	1291	0.22	194.12	1290.81	-17.90	0.06	-17.90	1.32	90.00	17.90	179.81	87.7
15	1381	0.31	71.57	1380.81	-17.99	0.25	-17.99	0.52	90.00	17.99	179.21	87.7
16	1471	0.17	130.26	1470.81	-18.00	0.58	-18.01	0.29	90.00	18.01	178.16	95.0
17	1562	0.25	146.09	1561.81	-18.25	0.79	-18.26	0.11	91.00	18.27	177.51	95.0
18	1652	0.23	84.55	1651.81	-18.40	1.08	-18.41	0.27	90.00	18.43	176.63	102.3
19	1742	0.16	82.33	1741.81	-18.37	1.39	-18.38	0.08	90.00	18.42	175.68	109.6
20	1832	0.23	23.46	1831.81	-18.18	1.58	-18.20	0.22	90.00	18.25	175.02	109.6
21	1923	0.06	147.79	1922.81	-18.06	1.68	-18.08	0.29	91.00	18.13	174.68	109.6
22	2013	0.14	65.43	2012.81	-18.05	1.81	-18.07	0.16	90.00	18.14	174.28	95.0
23	2103	0.29	323.60	2102.80	-17.82	1.77	-17.84	0.39	90.00	17.91	174.32	102.3
24	2194	0.42	345.15	2193.80	-17.31	1.55	-17.33	0.20	91.00	17.38	174.89	102.3
25	2284	0.36	312.78	2283.80	-16.80	1.26	-16.82	0.25	90.00	16.85	175.72	109.6
26	2374	0.06	5.42	2373.80	-16.56	1.05	-16.58	0.36	90.00	16.60	176.36	109.6
27	2464	0.60	106.67	2463.80	-16.65	1.51	-16.67	0.68	90.00	16.72	174.82	109.6
28	2555	0.76	104.14	2554.79	-16.94	2.55	-16.97	0.18	91.00	17.13	171.43	116.9
29	2645	1.06	106.42	2644.78	-17.32	3.93	-17.37	0.34	90.00	17.76	167.22	116.9
30	2735	1.72	113.04	2734.75	-18.08	5.97	-18.16	0.75	90.00	19.04	161.72	116.9
31	2826	1.37	114.44	2825.72	-19.06	8.22	-19.17	0.39	91.00	20.76	156.68	116.9
32	2916	1.33	112.83	2915.70	-19.92	10.16	-20.04	0.06	90.00	22.36	152.97	116.9
33	2993	1.36	122.41	2992.67	-20.75	11.76	-20.90	0.29	77.00	23.85	150.47	116.9

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
34	3119	1.33	133.77	3118.64	-22.56	14.07	-22.74	0.21	126.00	26.59	148.05	95.0
35	3210	1.35	135.45	3209.62	-24.06	15.59	-24.26	0.05	91.00	28.67	147.06	95.0
36	3300	0.20	208.33	3299.61	-24.95	16.26	-25.16	1.45	90.00	29.78	146.91	95.0
37	3390	1.20	289.98	3389.60	-24.77	15.30	-24.96	1.32	90.00	29.11	148.30	95.0
38	3480	2.70	297.80	3479.55	-23.46	12.54	-23.62	1.69	90.00	26.60	151.88	95.0
39	3571	4.14	300.12	3570.38	-20.81	7.80	-20.91	1.59	91.00	22.22	159.46	95.0
40	3661	4.98	297.28	3660.10	-17.39	1.52	-17.41	0.97	90.00	17.46	175.02	102.3
41	3751	7.13	296.13	3749.59	-13.14	-6.97	-13.05	2.39	90.00	14.87	207.95	95.0
42	3842	8.09	295.85	3839.79	-7.86	-17.80	-7.63	1.06	91.00	19.46	246.18	102.3
43	3932	7.92	295.33	3928.91	-2.45	-29.11	-2.07	0.21	90.00	29.21	265.20	102.3
44	4022	7.54	293.09	4018.09	2.52	-40.14	3.04	0.54	90.00	40.22	273.60	102.3
45	4113	7.79	290.90	4108.28	7.06	-51.40	7.73	0.42	91.00	51.88	277.83	102.3
46	4203	8.16	288.27	4197.41	11.24	-63.16	12.06	0.58	90.00	64.15	280.09	102.3
47	4293	8.52	279.30	4286.46	14.32	-75.81	15.30	1.50	90.00	77.15	280.70	102.3
48	4384	9.19	273.41	4376.38	15.84	-89.71	17.00	1.24	91.00	91.10	280.02	102.3
49	4474	9.13	273.36	4465.23	16.69	-104.01	18.03	0.07	90.00	105.35	279.12	102.3
50	4564	8.71	272.65	4554.14	17.42	-117.95	18.95	0.48	90.00	119.23	278.40	102.3
51	4655	8.59	272.55	4644.10	18.04	-131.62	19.74	0.13	91.00	132.85	277.81	102.3
52	4745	8.53	272.31	4733.10	18.61	-145.01	20.48	0.08	90.00	146.20	277.31	102.3
53	4836	8.58	271.63	4823.09	19.08	-158.54	21.12	0.12	91.00	159.68	276.86	102.3
54	4926	7.83	271.85	4912.17	19.47	-171.37	21.68	0.83	90.00	172.48	276.48	102.3
55	5016	7.55	271.76	5001.36	19.85	-183.41	22.21	0.31	90.00	184.48	276.18	102.3
56	5107	6.48	270.65	5091.68	20.09	-194.52	22.60	1.19	91.00	195.56	275.90	102.3
57	5197	6.14	269.56	5181.13	20.11	-204.41	22.75	0.40	90.00	205.40	275.62	109.6
58	5287	6.04	268.59	5270.62	19.96	-213.96	22.72	0.16	90.00	214.89	275.33	109.6
59	5378	5.57	265.44	5361.16	19.49	-223.15	22.37	0.62	91.00	224.00	274.99	102.3
60	5468	5.30	264.60	5450.75	18.75	-231.64	21.74	0.31	90.00	232.40	274.63	102.3
61	5558	5.05	263.00	5540.38	17.87	-239.71	20.97	0.32	90.00	240.38	274.26	102.3
62	5649	4.50	262.40	5631.07	16.91	-247.22	20.11	0.61	91.00	247.80	273.91	102.3
63	5739	3.97	260.70	5720.82	15.94	-253.80	19.22	0.61	90.00	254.30	273.59	102.3
64	5830	4.18	267.07	5811.59	15.26	-260.22	18.62	0.55	91.00	260.67	273.36	102.3
65	5920	4.34	267.56	5901.34	14.95	-266.90	18.40	0.18	90.00	267.32	273.21	109.6
66	6010	3.85	267.55	5991.11	14.68	-273.32	18.21	0.54	90.00	273.71	273.07	109.6
67	6101	4.90	268.95	6081.85	14.48	-280.26	18.09	1.16	91.00	280.63	272.96	109.6
68	6191	6.18	270.20	6171.42	14.42	-288.94	18.15	1.43	90.00	289.30	272.86	95.0
69	6281	5.93	268.75	6260.92	14.34	-298.44	18.19	0.33	90.00	298.78	272.75	95.0
70	6371	5.80	269.34	6350.45	14.18	-307.63	18.16	0.16	90.00	307.96	272.64	95.0
71	6462	5.69	269.19	6440.99	14.07	-316.74	18.16	0.12	91.00	317.05	272.54	95.0
72	6552	5.48	268.86	6530.57	13.92	-325.50	18.12	0.24	90.00	325.80	272.45	95.0

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
73	6642	5.23	268.70	6620.17	13.74	-333.90	18.05	0.28	90.00	334.18	272.36	95.0
74	6733	5.06	267.94	6710.81	13.50	-342.05	17.92	0.20	91.00	342.32	272.26	87.7
75	6823	4.96	265.60	6800.46	13.06	-349.90	17.58	0.25	90.00	350.14	272.14	95.0
76	6913	4.60	263.19	6890.15	12.33	-357.36	16.95	0.46	90.00	357.57	271.98	95.0
77	7004	3.60	258.40	6980.92	11.33	-363.78	16.02	1.16	91.00	363.96	271.78	95.0
78	7094	3.91	269.43	7070.72	10.73	-369.62	15.50	0.87	90.00	369.77	271.66	95.0
79	7185	3.99	273.70	7161.51	10.90	-375.88	15.76	0.33	91.00	376.04	271.66	95.0
80	7275	5.04	268.66	7251.23	11.01	-382.96	15.96	1.25	90.00	383.12	271.65	95.0
81	7365	5.86	262.31	7340.82	10.30	-391.46	15.36	1.13	90.00	391.60	271.51	87.7
82	7456	5.22	249.81	7431.40	8.25	-399.95	13.42	1.50	91.00	400.04	271.18	87.7
83	7546	5.10	241.39	7521.04	4.93	-407.31	10.19	0.85	90.00	407.34	270.69	87.7
84	7636	5.99	249.53	7610.62	1.37	-415.22	6.73	1.32	90.00	415.22	270.19	95.0
85	7726	6.41	250.88	7700.09	-1.92	-424.37	3.56	0.49	90.00	424.37	269.74	95.0
86	7817	6.32	239.84	7790.53	-6.10	-433.50	-0.50	1.35	91.00	433.54	269.19	95.0
87	7907	6.05	237.75	7880.01	-11.12	-441.79	-5.41	0.39	90.00	441.93	268.56	95.0
88	7997	4.84	240.18	7969.60	-15.54	-449.10	-9.74	1.37	90.00	449.36	268.02	102.3
89	8087	2.94	245.20	8059.39	-18.40	-454.49	-12.52	2.14	90.00	454.86	267.68	102.3
90	8178	1.81	235.59	8150.31	-20.19	-457.79	-14.27	1.31	91.00	458.23	267.48	109.6
91	8263	2.53	328.94	8235.27	-19.34	-459.87	-13.40	3.76	85.00	460.27	267.59	102.3
92	8308	9.88	353.50	8279.98	-14.64	-460.82	-8.69	17.00	45.00	461.05	268.18	102.3
93	8354	16.84	357.81	8324.71	-4.05	-461.52	1.91	15.27	46.00	461.54	269.50	102.3
94	8399	17.91	356.05	8367.65	9.36	-462.24	15.33	2.65	45.00	462.34	271.16	102.3
95	8444	19.44	358.50	8410.29	23.75	-462.92	29.73	3.82	45.00	463.53	272.94	102.3
96	8588	29.59	0.37	8541.13	83.42	-463.32	89.40	7.07	144.00	470.77	280.21	124.1
97	8633	34.17	2.04	8579.34	107.17	-462.79	113.14	10.36	45.00	475.04	283.04	124.1
98	8682	37.77	0.32	8618.99	135.94	-462.22	141.90	7.63	49.00	481.80	286.39	124.1
99	8777	48.85	2.36	8688.01	200.97	-460.58	206.91	11.75	95.00	502.52	293.57	124.1
100	8871	55.69	1.37	8745.50	275.23	-458.19	281.13	7.32	94.00	534.50	300.99	124.1
101	8966	63.19	359.42	8793.77	356.97	-457.68	362.85	8.09	95.00	580.43	307.95	124.1
102	9060	75.13	359.91	8827.15	444.66	-458.18	450.54	12.71	94.00	638.48	314.14	124.1
103	9154	81.95	0.57	8845.82	536.73	-457.79	542.60	7.29	94.00	705.44	319.54	131.4
104	9249	93.54	358.78	8849.55	631.49	-458.33	637.36	12.34	95.00	780.29	324.03	131.4
105	9344	91.68	359.52	8845.22	726.38	-459.74	732.26	2.11	95.00	859.64	327.67	131.4
106	9438	91.38	357.50	8842.71	820.31	-462.18	826.21	2.17	94.00	941.55	330.60	138.7
107	9533	92.30	357.74	8839.66	915.18	-466.12	921.12	1.00	95.00	1027.04	333.01	138.7
108	9627	90.06	0.59	8837.73	1009.13	-467.49	1015.08	3.86	94.00	1112.16	335.14	131.4
109	9721	90.28	359.79	8837.45	1103.13	-467.18	1109.07	0.88	94.00	1197.98	337.05	138.7
110	9816	90.20	359.53	8837.05	1198.13	-467.74	1204.07	0.29	95.00	1286.19	338.67	138.7
111	9911	90.34	358.91	8836.60	1293.12	-469.04	1299.07	0.67	95.00	1375.55	340.06	138.7

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
112	10005	91.35	358.33	8835.22	1387.08	-471.30	1393.05	1.24	94.00	1464.96	341.23	138.7
113	10099	89.66	359.81	8834.39	1481.05	-472.83	1487.04	2.39	94.00	1554.70	342.29	138.7
114	10194	90.50	358.92	8834.26	1576.05	-473.88	1582.04	1.29	95.00	1645.75	343.27	138.7
115	10287	91.24	357.66	8832.84	1668.99	-476.65	1675.01	1.57	93.00	1735.72	344.06	146.0
116	10381	90.31	358.19	8831.57	1762.92	-480.06	1768.97	1.14	94.00	1827.11	344.77	138.7
117	10475	91.15	357.93	8830.37	1856.86	-483.24	1862.94	0.94	94.00	1918.71	345.41	146.0
118	10569	89.49	359.93	8829.85	1950.83	-484.99	1956.93	2.76	94.00	2010.22	346.04	146.0
119	10663	90.51	358.85	8829.85	2044.82	-485.99	2050.93	1.58	94.00	2101.78	346.63	146.0
120	10757	89.21	0.80	8830.08	2138.82	-486.28	2144.92	2.49	94.00	2193.40	347.19	146.0
121	10850	90.56	0.75	8830.27	2231.81	-485.02	2237.88	1.45	93.00	2283.90	347.74	146.0
122	10944	91.23	359.68	8828.80	2325.79	-484.67	2331.86	1.34	94.00	2375.76	348.23	146.0
123	11038	92.36	0.21	8825.85	2419.74	-484.76	2425.80	1.33	94.00	2467.82	348.67	146.0
124	11131	89.52	0.69	8824.33	2512.72	-484.03	2518.76	3.10	93.00	2558.91	349.10	146.0
125	11225	90.56	0.74	8824.26	2606.71	-482.86	2612.73	1.11	94.00	2651.05	349.51	146.0
126	11319	91.21	0.58	8822.81	2700.69	-481.78	2706.69	0.71	94.00	2743.33	349.89	146.0
127	11414	88.54	359.10	8823.02	2795.68	-482.04	2801.67	3.21	95.00	2836.93	350.22	146.0
128	11507	89.21	358.06	8824.84	2888.63	-484.35	2894.65	1.33	93.00	2928.96	350.48	146.0
129	11601	89.89	358.29	8825.58	2982.58	-487.34	2988.63	0.76	94.00	3022.13	350.72	146.0
130	11695	90.51	357.82	8825.25	3076.53	-490.53	3082.60	0.83	94.00	3115.39	350.94	146.0
131	11788	91.52	356.96	8823.61	3169.41	-494.76	3175.54	1.43	93.00	3207.80	351.13	146.0
132	11882	90.81	359.96	8821.69	3263.35	-497.29	3269.50	3.28	94.00	3301.02	351.34	138.7
133	11976	89.66	356.87	8821.31	3357.30	-499.89	3363.47	3.51	94.00	3394.31	351.53	138.7
134	12071	90.56	2.79	8821.13	3452.25	-500.17	3458.43	6.30	95.00	3488.30	351.76	138.7
135	12164	89.94	1.47	8820.72	3545.19	-496.71	3551.31	1.57	93.00	3579.81	352.02	138.7
136	12258	90.70	2.42	8820.20	3639.13	-493.52	3645.20	1.29	94.00	3672.44	352.28	146.0
137	12351	91.80	2.48	8818.17	3732.02	-489.55	3738.03	1.18	93.00	3763.99	352.53	146.0
138	12445	90.81	2.66	8816.03	3825.90	-485.33	3831.85	1.07	94.00	3856.56	352.77	146.0
139	12539	87.61	0.93	8817.32	3919.83	-482.39	3925.73	3.87	94.00	3949.40	352.98	146.0
140	12633	87.67	1.39	8821.19	4013.73	-480.49	4019.60	0.49	94.00	4042.39	353.17	146.0
141	12727	91.35	4.22	8822.00	4107.59	-475.89	4113.39	4.94	94.00	4135.06	353.39	146.0
142	12820	88.99	0.63	8821.72	4200.48	-471.96	4206.23	4.62	93.00	4226.91	353.59	146.0
143	12914	89.97	1.06	8822.57	4294.47	-470.57	4300.19	1.14	94.00	4320.17	353.75	146.0
144	13009	89.10	359.89	8823.34	4389.46	-469.78	4395.16	1.53	95.00	4414.53	353.89	146.0
145	13102	91.09	0.38	8823.19	4482.45	-469.56	4488.14	2.20	93.00	4506.98	354.02	146.0
146	13195	90.17	358.94	8822.17	4575.44	-470.12	4581.13	1.84	93.00	4599.53	354.13	153.3
147	13289	91.66	0.05	8820.67	4669.42	-470.94	4675.12	1.98	94.00	4693.11	354.24	153.3
148	13383	88.71	358.73	8820.36	4763.40	-471.94	4769.10	3.44	94.00	4786.73	354.34	153.3
149	13477	89.83	358.03	8821.56	4857.36	-474.60	4863.08	1.41	94.00	4880.49	354.42	153.3
150	13570	89.75	354.74	8821.90	4950.16	-480.46	4955.95	3.54	93.00	4973.42	354.46	153.3

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
151	13664	90.77	353.39	8821.47	5043.65	-490.18	5049.56	1.80	94.00	5067.42	354.45	153.3
152	13758	86.57	354.12	8823.66	5137.05	-500.40	5143.08	4.54	94.00	5161.36	354.44	153.3
153	13852	86.99	354.50	8828.94	5230.44	-509.71	5236.58	0.60	94.00	5255.21	354.43	153.3
154	13946	87.69	357.18	8833.30	5324.08	-516.52	5330.30	2.94	94.00	5349.07	354.46	153.3
155	14040	88.53	1.17	8836.40	5418.00	-517.87	5424.23	4.34	94.00	5442.69	354.54	153.3
156	14133	91.70	2.25	8836.21	5510.94	-515.10	5517.13	3.60	93.00	5534.96	354.66	153.3
157	14227	92.91	1.93	8832.43	5604.80	-511.67	5610.94	1.33	94.00	5628.11	354.78	153.3
158	14322	94.17	1.56	8826.57	5699.57	-508.78	5705.67	1.38	95.00	5722.24	354.90	153.3
159	14353	94.29	1.45	8824.28	5730.48	-507.97	5736.56	0.52	31.00	5752.95	354.93	153.3
PTB	14404	94.29	1.45	8820.47	5781.32	-506.68	5787.38	0.00	51.00	5803.48	354.99	0.5



Directional Survey Report

Company Name: XTO ENERGY INC.

State/Prov: NM

Survey Company: Legacy Directional

Proposed Azimuth: 359.26°

Well Name: CORRAL CANYON 3 FEDERAL COM #022H

County: Eddy

Job Number: HU190210

Declination: 6.73°

Field: WILLOW LAKE; BONE SPRING SE

Location: 19.6 MI SW OF LOVING, NM

Latitude: 32° 9' 1.624" N

North Reference: GRID

Rig ID: AKITA 803

API/UWI: 30-015-46326

Longitude: 103° 58' 20.989" W

KB: 3062 FT

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
Tie-In	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	359.26	0
1	171	0.65	116.84	171.00	-0.44	0.87	-0.45	0.38	171.00	0.97	116.84	58.6
2	264	0.79	143.08	263.99	-1.19	1.72	-1.21	0.38	93.00	2.09	124.63	58.6
3	355	0.86	129.93	354.98	-2.13	2.62	-2.16	0.22	91.00	3.38	129.07	65.9
4	447	1.04	134.83	446.97	-3.16	3.74	-3.21	0.21	92.00	4.90	130.17	65.9
5	537	0.87	163.15	536.96	-4.39	4.52	-4.45	0.55	90.00	6.30	134.16	95.0
6	552	0.80	160.98	551.95	-4.60	4.59	-4.66	0.51	15.00	6.50	135.06	95.0
7	659	1.07	187.11	658.94	-6.30	4.71	-6.36	0.47	107.00	7.86	143.21	73.1
8	749	1.18	188.97	748.92	-8.04	4.46	-8.10	0.13	90.00	9.20	151.00	73.1
9	840	1.08	196.21	839.90	-9.79	4.07	-9.85	0.19	91.00	10.61	157.42	73.1
10	930	1.17	201.38	929.89	-11.46	3.50	-11.51	0.15	90.00	11.99	163.01	73.1
11	1020	1.19	210.64	1019.87	-13.12	2.69	-13.16	0.21	90.00	13.40	168.41	80.4
12	1110	1.36	206.13	1109.85	-14.89	1.74	-14.91	0.22	90.00	14.99	173.32	80.4
13	1201	1.40	211.89	1200.82	-16.80	0.68	-16.81	0.16	91.00	16.81	177.68	87.7
14	1291	0.22	194.12	1290.81	-17.90	0.06	-17.90	1.32	90.00	17.90	179.81	87.7
15	1381	0.31	71.57	1380.81	-17.99	0.25	-17.99	0.52	90.00	17.99	179.21	87.7
16	1471	0.17	130.26	1470.81	-18.00	0.58	-18.01	0.29	90.00	18.01	178.16	95.0
17	1562	0.25	146.09	1561.81	-18.25	0.79	-18.26	0.11	91.00	18.27	177.51	95.0
18	1652	0.23	84.55	1651.81	-18.40	1.08	-18.41	0.27	90.00	18.43	176.63	102.3
19	1742	0.16	82.33	1741.81	-18.37	1.39	-18.38	0.08	90.00	18.42	175.68	109.6
20	1832	0.23	23.46	1831.81	-18.18	1.58	-18.20	0.22	90.00	18.25	175.02	109.6
21	1923	0.06	147.79	1922.81	-18.06	1.68	-18.08	0.29	91.00	18.13	174.68	109.6
22	2013	0.14	65.43	2012.81	-18.05	1.81	-18.07	0.16	90.00	18.14	174.28	95.0
23	2103	0.29	323.60	2102.80	-17.82	1.77	-17.84	0.39	90.00	17.91	174.32	102.3
24	2194	0.42	345.15	2193.80	-17.31	1.55	-17.33	0.20	91.00	17.38	174.89	102.3
25	2284	0.36	312.78	2283.80	-16.80	1.26	-16.82	0.25	90.00	16.85	175.72	109.6
26	2374	0.06	5.42	2373.80	-16.56	1.05	-16.58	0.36	90.00	16.60	176.36	109.6
27	2464	0.60	106.67	2463.80	-16.65	1.51	-16.67	0.68	90.00	16.72	174.82	109.6
28	2555	0.76	104.14	2554.79	-16.94	2.55	-16.97	0.18	91.00	17.13	171.43	116.9
29	2645	1.06	106.42	2644.78	-17.32	3.93	-17.37	0.34	90.00	17.76	167.22	116.9
30	2735	1.72	113.04	2734.75	-18.08	5.97	-18.16	0.75	90.00	19.04	161.72	116.9
31	2826	1.37	114.44	2825.72	-19.06	8.22	-19.17	0.39	91.00	20.76	156.68	116.9
32	2916	1.33	112.83	2915.70	-19.92	10.16	-20.04	0.06	90.00	22.36	152.97	116.9
33	2993	1.36	122.41	2992.67	-20.75	11.76	-20.90	0.29	77.00	23.85	150.47	116.9

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
34	3119	1.33	133.77	3118.64	-22.56	14.07	-22.74	0.21	126.00	26.59	148.05	95.0
35	3210	1.35	135.45	3209.62	-24.06	15.59	-24.26	0.05	91.00	28.67	147.06	95.0
36	3300	0.20	208.33	3299.61	-24.95	16.26	-25.16	1.45	90.00	29.78	146.91	95.0
37	3390	1.20	289.98	3389.60	-24.77	15.30	-24.96	1.32	90.00	29.11	148.30	95.0
38	3480	2.70	297.80	3479.55	-23.46	12.54	-23.62	1.69	90.00	26.60	151.88	95.0
39	3571	4.14	300.12	3570.38	-20.81	7.80	-20.91	1.59	91.00	22.22	159.46	95.0
40	3661	4.98	297.28	3660.10	-17.39	1.52	-17.41	0.97	90.00	17.46	175.02	102.3
41	3751	7.13	296.13	3749.59	-13.14	-6.97	-13.05	2.39	90.00	14.87	207.95	95.0
42	3842	8.09	295.85	3839.79	-7.86	-17.80	-7.63	1.06	91.00	19.46	246.18	102.3
43	3932	7.92	295.33	3928.91	-2.45	-29.11	-2.07	0.21	90.00	29.21	265.20	102.3
44	4022	7.54	293.09	4018.09	2.52	-40.14	3.04	0.54	90.00	40.22	273.60	102.3
45	4113	7.79	290.90	4108.28	7.06	-51.40	7.73	0.42	91.00	51.88	277.83	102.3
46	4203	8.16	288.27	4197.41	11.24	-63.16	12.06	0.58	90.00	64.15	280.09	102.3
47	4293	8.52	279.30	4286.46	14.32	-75.81	15.30	1.50	90.00	77.15	280.70	102.3
48	4384	9.19	273.41	4376.38	15.84	-89.71	17.00	1.24	91.00	91.10	280.02	102.3
49	4474	9.13	273.36	4465.23	16.69	-104.01	18.03	0.07	90.00	105.35	279.12	102.3
50	4564	8.71	272.65	4554.14	17.42	-117.95	18.95	0.48	90.00	119.23	278.40	102.3
51	4655	8.59	272.55	4644.10	18.04	-131.62	19.74	0.13	91.00	132.85	277.81	102.3
52	4745	8.53	272.31	4733.10	18.61	-145.01	20.48	0.08	90.00	146.20	277.31	102.3
53	4836	8.58	271.63	4823.09	19.08	-158.54	21.12	0.12	91.00	159.68	276.86	102.3
54	4926	7.83	271.85	4912.17	19.47	-171.37	21.68	0.83	90.00	172.48	276.48	102.3
55	5016	7.55	271.76	5001.36	19.85	-183.41	22.21	0.31	90.00	184.48	276.18	102.3
56	5107	6.48	270.65	5091.68	20.09	-194.52	22.60	1.19	91.00	195.56	275.90	102.3
57	5197	6.14	269.56	5181.13	20.11	-204.41	22.75	0.40	90.00	205.40	275.62	109.6
58	5287	6.04	268.59	5270.62	19.96	-213.96	22.72	0.16	90.00	214.89	275.33	109.6
59	5378	5.57	265.44	5361.16	19.49	-223.15	22.37	0.62	91.00	224.00	274.99	102.3
60	5468	5.30	264.60	5450.75	18.75	-231.64	21.74	0.31	90.00	232.40	274.63	102.3
61	5558	5.05	263.00	5540.38	17.87	-239.71	20.97	0.32	90.00	240.38	274.26	102.3
62	5649	4.50	262.40	5631.07	16.91	-247.22	20.11	0.61	91.00	247.80	273.91	102.3
63	5739	3.97	260.70	5720.82	15.94	-253.80	19.22	0.61	90.00	254.30	273.59	102.3
64	5830	4.18	267.07	5811.59	15.26	-260.22	18.62	0.55	91.00	260.67	273.36	102.3
65	5920	4.34	267.56	5901.34	14.95	-266.90	18.40	0.18	90.00	267.32	273.21	109.6
66	6010	3.85	267.55	5991.11	14.68	-273.32	18.21	0.54	90.00	273.71	273.07	109.6
67	6101	4.90	268.95	6081.85	14.48	-280.26	18.09	1.16	91.00	280.63	272.96	109.6
68	6191	6.18	270.20	6171.42	14.42	-288.94	18.15	1.43	90.00	289.30	272.86	95.0
69	6281	5.93	268.75	6260.92	14.34	-298.44	18.19	0.33	90.00	298.78	272.75	95.0
70	6371	5.80	269.34	6350.45	14.18	-307.63	18.16	0.16	90.00	307.96	272.64	95.0
71	6462	5.69	269.19	6440.99	14.07	-316.74	18.16	0.12	91.00	317.05	272.54	95.0
72	6552	5.48	268.86	6530.57	13.92	-325.50	18.12	0.24	90.00	325.80	272.45	95.0

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
73	6642	5.23	268.70	6620.17	13.74	-333.90	18.05	0.28	90.00	334.18	272.36	95.0
74	6733	5.06	267.94	6710.81	13.50	-342.05	17.92	0.20	91.00	342.32	272.26	87.7
75	6823	4.96	265.60	6800.46	13.06	-349.90	17.58	0.25	90.00	350.14	272.14	95.0
76	6913	4.60	263.19	6890.15	12.33	-357.36	16.95	0.46	90.00	357.57	271.98	95.0
77	7004	3.60	258.40	6980.92	11.33	-363.78	16.02	1.16	91.00	363.96	271.78	95.0
78	7094	3.91	269.43	7070.72	10.73	-369.62	15.50	0.87	90.00	369.77	271.66	95.0
79	7185	3.99	273.70	7161.51	10.90	-375.88	15.76	0.33	91.00	376.04	271.66	95.0
80	7275	5.04	268.66	7251.23	11.01	-382.96	15.96	1.25	90.00	383.12	271.65	95.0
81	7365	5.86	262.31	7340.82	10.30	-391.46	15.36	1.13	90.00	391.60	271.51	87.7
82	7456	5.22	249.81	7431.40	8.25	-399.95	13.42	1.50	91.00	400.04	271.18	87.7
83	7546	5.10	241.39	7521.04	4.93	-407.31	10.19	0.85	90.00	407.34	270.69	87.7
84	7636	5.99	249.53	7610.62	1.37	-415.22	6.73	1.32	90.00	415.22	270.19	95.0
85	7726	6.41	250.88	7700.09	-1.92	-424.37	3.56	0.49	90.00	424.37	269.74	95.0
86	7817	6.32	239.84	7790.53	-6.10	-433.50	-0.50	1.35	91.00	433.54	269.19	95.0
87	7907	6.05	237.75	7880.01	-11.12	-441.79	-5.41	0.39	90.00	441.93	268.56	95.0
88	7997	4.84	240.18	7969.60	-15.54	-449.10	-9.74	1.37	90.00	449.36	268.02	102.3
89	8087	2.94	245.20	8059.39	-18.40	-454.49	-12.52	2.14	90.00	454.86	267.68	102.3
90	8178	1.81	235.59	8150.31	-20.19	-457.79	-14.27	1.31	91.00	458.23	267.48	109.6
91	8263	2.53	328.94	8235.27	-19.34	-459.87	-13.40	3.76	85.00	460.27	267.59	102.3
92	8308	9.88	353.50	8279.98	-14.64	-460.82	-8.69	17.00	45.00	461.05	268.18	102.3
93	8354	16.84	357.81	8324.71	-4.05	-461.52	1.91	15.27	46.00	461.54	269.50	102.3
94	8399	17.91	356.05	8367.65	9.36	-462.24	15.33	2.65	45.00	462.34	271.16	102.3
95	8444	19.44	358.50	8410.29	23.75	-462.92	29.73	3.82	45.00	463.53	272.94	102.3
96	8588	29.59	0.37	8541.13	83.42	-463.32	89.40	7.07	144.00	470.77	280.21	124.1
97	8633	34.17	2.04	8579.34	107.17	-462.79	113.14	10.36	45.00	475.04	283.04	124.1
98	8682	37.77	0.32	8618.99	135.94	-462.22	141.90	7.63	49.00	481.80	286.39	124.1
99	8777	48.85	2.36	8688.01	200.97	-460.58	206.91	11.75	95.00	502.52	293.57	124.1
100	8871	55.69	1.37	8745.50	275.23	-458.19	281.13	7.32	94.00	534.50	300.99	124.1
101	8966	63.19	359.42	8793.77	356.97	-457.68	362.85	8.09	95.00	580.43	307.95	124.1
102	9060	75.13	359.91	8827.15	444.66	-458.18	450.54	12.71	94.00	638.48	314.14	124.1
103	9154	81.95	0.57	8845.82	536.73	-457.79	542.60	7.29	94.00	705.44	319.54	131.4
104	9249	93.54	358.78	8849.55	631.49	-458.33	637.36	12.34	95.00	780.29	324.03	131.4
105	9344	91.68	359.52	8845.22	726.38	-459.74	732.26	2.11	95.00	859.64	327.67	131.4
106	9438	91.38	357.50	8842.71	820.31	-462.18	826.21	2.17	94.00	941.55	330.60	138.7
107	9533	92.30	357.74	8839.66	915.18	-466.12	921.12	1.00	95.00	1027.04	333.01	138.7
108	9627	90.06	0.59	8837.73	1009.13	-467.49	1015.08	3.86	94.00	1112.16	335.14	131.4
109	9721	90.28	359.79	8837.45	1103.13	-467.18	1109.07	0.88	94.00	1197.98	337.05	138.7
110	9816	90.20	359.53	8837.05	1198.13	-467.74	1204.07	0.29	95.00	1286.19	338.67	138.7
111	9911	90.34	358.91	8836.60	1293.12	-469.04	1299.07	0.67	95.00	1375.55	340.06	138.7

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
112	10005	91.35	358.33	8835.22	1387.08	-471.30	1393.05	1.24	94.00	1464.96	341.23	138.7
113	10099	89.66	359.81	8834.39	1481.05	-472.83	1487.04	2.39	94.00	1554.70	342.29	138.7
114	10194	90.50	358.92	8834.26	1576.05	-473.88	1582.04	1.29	95.00	1645.75	343.27	138.7
115	10287	91.24	357.66	8832.84	1668.99	-476.65	1675.01	1.57	93.00	1735.72	344.06	146.0
116	10381	90.31	358.19	8831.57	1762.92	-480.06	1768.97	1.14	94.00	1827.11	344.77	138.7
117	10475	91.15	357.93	8830.37	1856.86	-483.24	1862.94	0.94	94.00	1918.71	345.41	146.0
118	10569	89.49	359.93	8829.85	1950.83	-484.99	1956.93	2.76	94.00	2010.22	346.04	146.0
119	10663	90.51	358.85	8829.85	2044.82	-485.99	2050.93	1.58	94.00	2101.78	346.63	146.0
120	10757	89.21	0.80	8830.08	2138.82	-486.28	2144.92	2.49	94.00	2193.40	347.19	146.0
121	10850	90.56	0.75	8830.27	2231.81	-485.02	2237.88	1.45	93.00	2283.90	347.74	146.0
122	10944	91.23	359.68	8828.80	2325.79	-484.67	2331.86	1.34	94.00	2375.76	348.23	146.0
123	11038	92.36	0.21	8825.85	2419.74	-484.76	2425.80	1.33	94.00	2467.82	348.67	146.0
124	11131	89.52	0.69	8824.33	2512.72	-484.03	2518.76	3.10	93.00	2558.91	349.10	146.0
125	11225	90.56	0.74	8824.26	2606.71	-482.86	2612.73	1.11	94.00	2651.05	349.51	146.0
126	11319	91.21	0.58	8822.81	2700.69	-481.78	2706.69	0.71	94.00	2743.33	349.89	146.0
127	11414	88.54	359.10	8823.02	2795.68	-482.04	2801.67	3.21	95.00	2836.93	350.22	146.0
128	11507	89.21	358.06	8824.84	2888.63	-484.35	2894.65	1.33	93.00	2928.96	350.48	146.0
129	11601	89.89	358.29	8825.58	2982.58	-487.34	2988.63	0.76	94.00	3022.13	350.72	146.0
130	11695	90.51	357.82	8825.25	3076.53	-490.53	3082.60	0.83	94.00	3115.39	350.94	146.0
131	11788	91.52	356.96	8823.61	3169.41	-494.76	3175.54	1.43	93.00	3207.80	351.13	146.0
132	11882	90.81	359.96	8821.69	3263.35	-497.29	3269.50	3.28	94.00	3301.02	351.34	138.7
133	11976	89.66	356.87	8821.31	3357.30	-499.89	3363.47	3.51	94.00	3394.31	351.53	138.7
134	12071	90.56	2.79	8821.13	3452.25	-500.17	3458.43	6.30	95.00	3488.30	351.76	138.7
135	12164	89.94	1.47	8820.72	3545.19	-496.71	3551.31	1.57	93.00	3579.81	352.02	138.7
136	12258	90.70	2.42	8820.20	3639.13	-493.52	3645.20	1.29	94.00	3672.44	352.28	146.0
137	12351	91.80	2.48	8818.17	3732.02	-489.55	3738.03	1.18	93.00	3763.99	352.53	146.0
138	12445	90.81	2.66	8816.03	3825.90	-485.33	3831.85	1.07	94.00	3856.56	352.77	146.0
139	12539	87.61	0.93	8817.32	3919.83	-482.39	3925.73	3.87	94.00	3949.40	352.98	146.0
140	12633	87.67	1.39	8821.19	4013.73	-480.49	4019.60	0.49	94.00	4042.39	353.17	146.0
141	12727	91.35	4.22	8822.00	4107.59	-475.89	4113.39	4.94	94.00	4135.06	353.39	146.0
142	12820	88.99	0.63	8821.72	4200.48	-471.96	4206.23	4.62	93.00	4226.91	353.59	146.0
143	12914	89.97	1.06	8822.57	4294.47	-470.57	4300.19	1.14	94.00	4320.17	353.75	146.0
144	13009	89.10	359.89	8823.34	4389.46	-469.78	4395.16	1.53	95.00	4414.53	353.89	146.0
145	13102	91.09	0.38	8823.19	4482.45	-469.56	4488.14	2.20	93.00	4506.98	354.02	146.0
146	13195	90.17	358.94	8822.17	4575.44	-470.12	4581.13	1.84	93.00	4599.53	354.13	153.3
147	13289	91.66	0.05	8820.67	4669.42	-470.94	4675.12	1.98	94.00	4693.11	354.24	153.3
148	13383	88.71	358.73	8820.36	4763.40	-471.94	4769.10	3.44	94.00	4786.73	354.34	153.3
149	13477	89.83	358.03	8821.56	4857.36	-474.60	4863.08	1.41	94.00	4880.49	354.42	153.3
150	13570	89.75	354.74	8821.90	4950.16	-480.46	4955.95	3.54	93.00	4973.42	354.46	153.3

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
151	13664	90.77	353.39	8821.47	5043.65	-490.18	5049.56	1.80	94.00	5067.42	354.45	153.3
152	13758	86.57	354.12	8823.66	5137.05	-500.40	5143.08	4.54	94.00	5161.36	354.44	153.3
153	13852	86.99	354.50	8828.94	5230.44	-509.71	5236.58	0.60	94.00	5255.21	354.43	153.3
154	13946	87.69	357.18	8833.30	5324.08	-516.52	5330.30	2.94	94.00	5349.07	354.46	153.3
155	14040	88.53	1.17	8836.40	5418.00	-517.87	5424.23	4.34	94.00	5442.69	354.54	153.3
156	14133	91.70	2.25	8836.21	5510.94	-515.10	5517.13	3.60	93.00	5534.96	354.66	153.3
157	14227	92.91	1.93	8832.43	5604.80	-511.67	5610.94	1.33	94.00	5628.11	354.78	153.3
158	14322	94.17	1.56	8826.57	5699.57	-508.78	5705.67	1.38	95.00	5722.24	354.90	153.3
159	14353	94.29	1.45	8824.28	5730.48	-507.97	5736.56	0.52	31.00	5752.95	354.93	153.3
PTB	14404	94.29	1.45	8820.47	5781.32	-506.68	5787.38	0.00	51.00	5803.48	354.99	0.5



MWD SURVEY CERTIFICATION

Legacy Directional Drilling, LLC.

State of NEW MEXICO

County of Eddy

I, Brandon Cox certify that; I am employed by Legacy Directional Drilling, LLC.;

that I did on the day(s) of October 25, 2019 through November 24, 2019 conduct or supervise

the taking of a MWD survey from a depth of 171 Feet to a depth of 14404 Feet;

that the data is true, correct, complete and within the limitations of the tool set forth by

Legacy Directional Drilling, LLC.; that I am authorized and qualified to make this report; that this survey was

conducted at the request of XTO ENERGY INC. for the

CORRAL CANYON 3 FEDERAL COM No. 22H Well, A.P.I No. 30-015-46326 in

WILLOW LAKE; BONE SPRING SE Field and that I have reviewed this report and find that it conforms

to the principles and procedures set forth by Legacy Directional Drilling, LLC.

Brandon Cox

Surveyor's Signature

MWD Field Operator

Title

Mark L. Miller

Supervisor's Signature

Mark L. Miller

Printed Name

V.P. Technology

Title



Legacy Directional Drilling, LLC.
MWD Survey Data Certification

OPERATOR:	XTO ENERGY INC.	JOB NUMBER:	HU190210
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WELL NAME:	CORRAL CANYON 3 FEDERAL COM NO. 22H	COUNTY & STATE:	EDDY Co., NM
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FIELD:	WILLOW LAKE; BONE SPRING SE	API NUMBER:	30-015-46326
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TIE-IN DATA							
DEPTH (FT)	INC (°)	AZM (°)	TVD (FT)	N/S (FT)	E/W (FT)	PROPOSED DIRECTION	DATA SOURCE
0	0	0	0	0	0	359.26	

FIRST SURVEY			
DATE	DEPTH (FT)	INC (°)	AZM (°)
25-Oct-2019	171	0.65	116.84

SURVEY INSTRUMENT TYPE:	Legacy MWD
TOTAL CORRECTION USED:	6.73
NORTH REFERENCE:	GRID

LAST SURVEY			
DATE	DEPTH (FT)	INC (°)	AZM (°)
24-Nov-2019	14353	94.29	1.45

TO THE BEST OF MY KNOWLEDGE I CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT

PROJECTION TO TD			
DATE	DEPTH (FT)	INC (°)	AZM (°)
24-Nov-2019	14404	94.29	1.45

Brandon Cox

Print Name

MWD OPERATOR(S) PERFORMING SURVEYS:

KEVIN LUCAS

NEILL COOPER

BRANDON COX

Brandon Cox

Signature

November 24, 2019

Today's Date