

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 ResourcesForm 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 Energy, Inc. 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707		² OGRID Number 373075
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-45616	⁵ Pool Name LOS MEDANOS: WOLFMP CAMP	⁶ Pool Code 96597
⁷ Property Code 326259	⁸ Property Name JAMES RANCH UNIT DI 2	⁹ Well Number 113H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
K	25	22S	30E		2600	South	2080	West	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	28	22S	30E		353	South	2642	East	Eddy

¹² Lse Code F	¹³ Producing Method 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 Midstream	

IV. Well Completion Data

²¹ Spud Date 4/14/2020	²² Ready Date 5/30/2021	²³ TD 25255 MD 11119 TVD	²⁴ PBD 25253 MD 11119 TVD	²⁵ Perforations 12,057 - 25,115	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
24.0	18.625	622	1090		
17.5	13.375	3734	2590		
12.25	9.625	9106	2350		
8.5	5.5/2.875	25255/11069	3400		

V. Well Test Data

³¹ Date New Oil 5/28/21	³² Gas Delivery Date 5/31/21	³³ Test Date 5/31	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 353	³⁶ Csg. Pressure 525
³⁷ Choke Size	³⁸ Oil 1801	³⁹ Water 2190	⁴⁰ Gas 3736		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: *JoAnne Baltier*Printed name: **JoAnne Baltier**Title: **Regulatory Analyst**E-mail Address: **joanne.baltier@exxonmobil.com**

Date: Phone:

OIL CONSERVATION DIVISION

Approved by: **KURT SIMMONS**Title: **NMOCD, SANTA FE**Approval Date: **09/02/2021**

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 30-015-45616	² Pool Code 96597	³ Pool Name LOS MEDANOS; WOLFCAMP (GAS)
⁴ Property Code 326259	⁵ Property Name JAMES RANCH UNIT DI 2	⁶ Well Number 113H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,340'

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
K	25	22 S	30 E		2,600	SOUTH	2,080	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
O	28	22 S	30 E		353	SOUTH	2,642	EAST	EDDY

¹² Dedicated Acres 400	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				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: <u>Cassie Evans</u> Date: 06/24/21 Printed Name: cassie Evans E-mail Address: cassie.evans@exxonmobil.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. Date of Survey: 4-29-2021 Signature and Seal of Professional Surveyor:				Certificate Number: JC 2019051233	

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

**Weatherford**

Drilling Services
710 S. Faudree Rd.
Odessa, TX USA 79765
Tel. (432) 561-8892 Fax (432) 741-5736

XTO
6401 Holliday Hill Road
Midland, TX 79707

Date: June 8, 2020

Attention: Manuel Garcia

Re: XTO
Well: JRU DI 2 113
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Chris Hinterlach MWD Supervisor	113	199 MD 25,229 MD	4/14/2020 5/27/2020	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Gary Rhodes
Drilling Engineer

5D Survey Report



5D Survey Report

XTO Energy

Field Name: *NM E - NAD 27*
Site Name: *James Ranch Unit DI 2 Pad*
Well Name: *JRU DI 2 113H*
File number: *14032733*
Survey: *Definitive survey*

28 May 2020



5D Survey Report

JRU DI 2 113H

Field Name: NM E - NAD 27	Map Units: US ft		Company Name: XTO Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD27 / New Mexico East			
	Comment:			
Site: James Ranch Unit DI 2 Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.27	
	Position:	Northing: 496082.70 US ft	Latitude: 32° 21' 46.32"	
		Easting: 653559.30 US ft	Longitude: -103° 50' 9.62"	
	Elevation above MSL:3344.00 US ft			
	Comment: Eddy Co, NM			
Slot: JRU DI 2 113H	Position (Relative to Site Centre)			
	+N/-S: 0.20 US ft	Northing: 496082.90 US ft	Latitude: 32° 21' 46.32"	
	+E/-W: 90.00 US ft	Easting: 653649.30 US ft	Longitude: -103° 50' 8.57"	
	Elevation above MSL: 3344.00 US ft			
	Comment:			
Well: JRU DI 2 113H	Type:Main well		UWI:	
	File Number: 14032733	Comment:		
	Closure Distance:15588.7US ft		Closure Azimuth:261.59°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00 US ft		+E/-W: -0.00 US ft	Az: 269.89°

Drill floor:	Survey Name: Definitive Survey
Rig Height (Drill Floor): 25.00 US ft	Elevation above MSL: 3369.00 US ft
Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 25/Jun/2019	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:

Magnetic Model:				
Model Name: IFR	Date: 10/Apr/2020	Field Strength: 47852.0 nT	Declination: 7.01°	Dip: 60.06°

Tie Point:					
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: -0.00 US ft	East Offset: -0.00 US ft

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD + IFR	0.00	361.00	WFT MWD+IFR_01
MWD + IFR	361.00	1068.00	WFT MWD+IFR_02
NO SURV 1d	1068.00	1718.00	WFT MWD+IFR_02
MWD + IFR	1718.00	2762.00	WFT MWD+IFR_02
MWD + IFR	2762.00	3672.00	WFT MWD+IFR_03
MWD + IFR	3672.00	5395.00	WFT MWD+IFR_04
MWD + IFR	5395.00	9021.00	WFT MWD+IFR_05
MWD + IFR	9021.00	11057.00	WFT MWD+IFR_06
MWD + IFR	11057.00	17734.00	WFT MWD+IFR_07
MWD + IFR	17734.00	21754.00	WFT MWD+IFR_08
MWD + IFR	21754.00	23935.00	WFT MWD+IFR_09
MWD + IFR	23935.00	25255.00	WFT MWD+IFR_10

Wellpath created using minimum curvature.

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
0.00	0.00	0.00	0.00	-3369.00	0.00	-0.00	-0.00	496082.90	653649.30	0.00	
199.00	0.12	249.89	199.00	-3170.00	0.20	-0.07	-0.20	496082.83	653649.10	0.06	
227.00	0.16	264.69	227.00	-3142.00	0.26	-0.09	-0.26	496082.81	653649.04	0.19	
301.00	0.24	251.09	301.00	-3068.00	0.51	-0.15	-0.51	496082.75	653648.79	0.12	
361.00	0.16	285.71	361.00	-3008.00	0.71	-0.16	-0.71	496082.74	653648.59	0.24	
704.00	0.32	203.79	704.00	-2665.00	1.56	-0.91	-1.56	496081.99	653647.74	0.10	
795.00	0.18	201.02	795.00	-2574.00	1.71	-1.28	-1.71	496081.62	653647.59	0.15	
885.00	0.22	220.91	885.00	-2484.00	1.88	-1.54	-1.88	496081.36	653647.42	0.09	
976.00	0.27	140.21	975.99	-2393.01	1.86	-1.84	-1.85	496081.06	653647.45	0.35	
1068.00	0.14	177.10	1067.99	-2301.01	1.71	-2.11	-1.71	496080.79	653647.59	0.19	
1159.00	0.50	153.86	1158.99	-2210.01	1.53	-2.58	-1.53	496080.32	653647.77	0.41	
1250.00	0.52	147.02	1249.99	-2119.01	1.14	-3.28	-1.13	496079.62	653648.17	0.07	
1340.00	0.32	161.90	1339.99	-2029.01	0.84	-3.87	-0.83	496079.03	653648.47	0.25	
1433.00	0.52	151.94	1432.98	-1936.02	0.56	-4.49	-0.55	496078.41	653648.75	0.23	
1623.00	0.44	141.96	1622.98	-1746.02	-0.29	-5.82	0.31	496077.08	653649.61	0.06	
1718.00	0.46	151.84	1717.97	-1651.03	-0.70	-6.44	0.71	496076.46	653650.01	0.08	
1814.00	0.21	152.94	1813.97	-1555.03	-0.96	-6.94	0.97	496075.96	653650.27	0.26	
1909.00	0.16	134.86	1908.97	-1460.03	-1.13	-7.19	1.15	496075.71	653650.45	0.08	
2003.00	0.18	128.99	2002.97	-1366.03	-1.34	-7.37	1.35	496075.53	653650.65	0.03	
2098.00	0.21	195.14	2097.97	-1271.03	-1.41	-7.64	1.42	496075.26	653650.72	0.23	
2193.00	0.24	178.72	2192.97	-1176.03	-1.37	-8.00	1.38	496074.90	653650.68	0.07	
2288.00	0.17	90.35	2287.97	-1081.03	-1.51	-8.20	1.53	496074.70	653650.83	0.31	
2383.00	0.18	112.28	2382.97	-986.03	-1.79	-8.26	1.81	496074.64	653651.11	0.07	
2478.00	0.08	59.56	2477.97	-891.03	-1.99	-8.28	2.00	496074.62	653651.30	0.15	
2573.00	0.36	135.20	2572.97	-796.03	-2.25	-8.46	2.27	496074.44	653651.57	0.37	
2668.00	0.34	149.67	2667.97	-701.03	-2.61	-8.92	2.62	496073.98	653651.92	0.10	
2762.00	0.25	111.72	2761.97	-607.03	-2.94	-9.23	2.95	496073.67	653652.25	0.22	
2949.00	0.64	132.62	2948.96	-420.04	-4.08	-10.09	4.10	496072.81	653653.40	0.22	
3044.00	1.34	125.97	3043.95	-325.05	-5.37	-11.10	5.39	496071.80	653654.69	0.75	
3138.00	2.28	120.73	3137.90	-231.10	-7.86	-12.70	7.89	496070.20	653657.19	1.01	
3233.00	2.97	117.71	3232.80	-136.20	-11.66	-14.81	11.69	496068.09	653660.99	0.74	
3328.00	3.89	121.95	3327.63	-41.37	-16.57	-17.66	16.60	496065.24	653665.90	1.00	
3422.00	4.03	125.34	3421.40	52.40	-21.96	-21.26	22.00	496061.64	653671.30	0.29	
3517.00	4.91	127.93	3516.11	147.11	-27.89	-25.69	27.93	496057.21	653677.23	0.95	
3611.00	5.69	125.60	3609.71	240.71	-34.84	-30.88	34.90	496052.02	653684.20	0.86	
3672.00	5.91	121.07	3670.40	301.40	-39.98	-34.26	40.05	496048.64	653689.35	0.83	
3790.00	6.18	121.64	3787.74	418.74	-50.58	-40.73	50.66	496042.17	653699.96	0.23	
3885.00	7.54	139.38	3882.07	513.07	-58.98	-48.14	59.07	496034.76	653708.37	2.63	
3979.00	8.17	160.54	3975.21	606.21	-65.20	-59.12	65.31	496023.78	653714.61	3.13	
4073.00	9.57	177.65	4068.10	699.10	-67.72	-73.23	67.86	496009.67	653717.16	3.16	
4168.00	11.58	191.93	4161.49	792.49	-66.04	-90.45	66.21	495992.45	653715.51	3.46	
4262.00	13.89	202.24	4253.19	884.19	-59.78	-110.13	59.99	495972.77	653709.29	3.44	
4356.00	16.34	205.37	4343.93	974.93	-49.79	-132.53	50.05	495950.37	653699.35	2.75	
4451.00	18.85	206.44	4434.48	1065.48	-37.18	-158.35	37.49	495924.55	653686.79	2.66	
4545.00	21.74	205.94	4522.63	1153.63	-22.75	-187.61	23.11	495895.29	653672.41	3.08	
4640.00	24.47	207.03	4610.01	1241.01	-6.04	-220.96	6.47	495861.94	653655.77	2.91	
4734.00	25.18	207.82	4695.32	1326.32	12.20	-255.99	-11.71	495826.91	653637.59	0.83	
4829.00	25.54	208.01	4781.16	1412.16	31.32	-291.94	-30.76	495790.96	653618.54	0.39	
4923.00	26.11	208.26	4865.78	1496.78	50.70	-328.05	-50.07	495754.85	653599.23	0.62	
5017.00	27.12	208.40	4949.81	1580.81	70.76	-365.12	-70.06	495717.78	653579.24	1.08	
5112.00	26.43	211.04	5034.63	1665.63	92.03	-402.28	-91.26	495680.62	653558.04	1.45	
5206.00	25.25	215.25	5119.24	1750.24	114.46	-436.58	-113.62	495646.32	653535.68	2.32	
5300.00	26.00	216.13	5203.99	1834.99	138.24	-469.60	-137.34	495613.30	653511.96	0.89	
5395.00	26.65	218.50	5289.14	1920.14	163.85	-503.09	-162.88	495579.81	653486.42	1.30	
5483.00	26.75	221.87	5367.76	1998.76	189.41	-533.29	-188.39	495549.61	653460.91	1.72	
5578.00	26.85	223.63	5452.56	2083.56	218.54	-564.74	-217.46	495518.16	653431.84	0.84	
5672.00	26.18	224.43	5536.67	2167.67	247.76	-594.91	-246.62	495487.99	653402.68	0.81	
5767.00	25.74	224.37	5622.09	2253.09	276.92	-624.62	-275.72	495458.28	653373.58	0.46	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
5861.00	25.31	224.33	5706.91	2337.91	305.29	-653.58	-304.03	495429.32	653345.27	0.46	
5956.00	24.92	223.91	5792.93	2423.93	333.41	-682.53	-332.10	495400.37	653317.20	0.45	
6050.00	24.57	224.24	5878.30	2509.30	360.84	-710.80	-359.47	495372.10	653289.83	0.40	
6144.00	23.20	222.33	5964.25	2595.25	386.99	-738.49	-385.58	495344.41	653263.72	1.67	
6239.00	21.66	221.44	6052.06	2683.06	411.25	-765.47	-409.78	495317.43	653239.52	1.66	
6334.00	21.29	222.25	6140.46	2771.46	434.50	-791.38	-432.98	495291.52	653216.32	0.50	
6428.00	20.21	222.09	6228.37	2859.37	456.91	-816.06	-455.34	495266.84	653193.96	1.15	
6522.00	19.39	218.11	6316.81	2947.81	477.47	-840.39	-475.86	495242.51	653173.44	1.68	
6616.00	19.33	219.16	6405.50	3036.50	496.97	-864.73	-495.31	495218.17	653153.99	0.38	
6710.00	19.70	219.20	6494.10	3125.10	516.85	-889.07	-515.15	495193.83	653134.15	0.39	
6805.00	19.73	218.11	6583.53	3214.53	536.92	-914.09	-535.16	495168.81	653114.14	0.39	
6899.00	22.13	218.16	6671.32	3302.32	557.70	-940.50	-555.90	495142.40	653093.40	2.55	
6994.00	22.11	218.10	6759.33	3390.33	579.85	-968.64	-577.99	495114.26	653071.31	0.03	
7089.00	23.36	218.42	6846.94	3477.94	602.64	-997.47	-600.72	495085.43	653048.58	1.32	
7183.00	22.72	218.22	6933.45	3564.45	625.50	-1026.33	-623.53	495056.57	653025.77	0.69	
7278.00	22.66	219.04	7021.09	3652.09	648.44	-1054.96	-646.41	495027.94	653002.89	0.34	
7372.00	22.76	220.72	7107.81	3738.81	671.76	-1082.80	-669.68	495000.10	652979.62	0.70	
7467.00	22.26	219.93	7195.57	3826.57	695.35	-1110.53	-693.22	494972.37	652956.08	0.62	
7561.00	24.10	218.66	7281.98	3912.98	718.82	-1139.17	-716.63	494943.73	652932.67	2.03	
7656.00	25.78	218.81	7368.12	3999.12	743.95	-1170.42	-741.70	494912.48	652907.60	1.77	
7750.00	25.12	219.15	7452.99	4083.99	769.42	-1201.82	-767.11	494881.08	652882.19	0.72	
7844.00	24.59	218.90	7538.29	4169.29	794.35	-1232.51	-791.99	494850.39	652857.31	0.57	
7938.00	23.71	219.21	7624.06	4255.06	818.64	-1262.38	-816.22	494820.52	652833.08	0.95	
8033.00	22.46	219.48	7711.45	4342.45	842.31	-1291.18	-839.83	494791.72	652809.47	1.32	
8127.00	20.91	220.18	7798.79	4429.79	864.60	-1317.86	-862.07	494765.04	652787.23	1.67	
8222.00	21.18	219.29	7887.46	4518.46	886.46	-1344.09	-883.88	494738.81	652765.42	0.44	
8317.00	20.81	219.73	7976.15	4607.15	908.16	-1370.35	-905.53	494712.55	652743.77	0.42	
8411.00	20.27	219.55	8064.17	4695.17	929.25	-1395.75	-926.57	494687.15	652722.73	0.58	
8506.00	19.49	220.80	8153.51	4784.51	950.13	-1420.44	-947.41	494662.46	652701.89	0.94	
8601.00	20.26	219.57	8242.85	4873.85	971.01	-1445.11	-968.24	494637.79	652681.06	0.92	
8696.00	19.96	218.68	8332.06	4963.06	991.67	-1470.45	-988.85	494612.45	652660.45	0.45	
8791.00	20.78	218.88	8421.12	5052.12	1012.43	-1496.23	-1009.56	494586.67	652639.74	0.87	
8885.00	20.67	219.74	8509.04	5140.04	1033.56	-1521.97	-1030.64	494560.93	652618.66	0.34	
8979.00	21.68	220.31	8596.69	5227.69	1055.45	-1547.96	-1052.48	494534.94	652596.82	1.10	
9021.00	22.46	221.29	8635.61	5266.61	1065.78	-1559.91	-1062.79	494522.99	652586.51	2.05	
9165.00	23.39	222.74	8768.24	5399.24	1103.41	-1601.57	-1100.34	494481.33	652548.96	0.76	
9260.00	24.01	222.77	8855.23	5486.23	1129.39	-1629.61	-1126.26	494453.29	652523.04	0.65	
9354.00	21.65	223.51	8941.86	5572.86	1154.37	-1656.23	-1151.19	494426.67	652498.11	2.53	
9448.00	20.22	222.10	9029.65	5660.65	1177.24	-1680.86	-1174.02	494402.04	652475.28	1.61	
9543.00	20.89	224.06	9118.60	5749.60	1200.08	-1705.21	-1196.81	494377.69	652452.49	1.01	
9637.00	20.21	223.99	9206.62	5837.62	1223.05	-1728.94	-1219.74	494353.96	652429.56	0.72	
9732.00	21.57	223.33	9295.37	5926.37	1246.48	-1753.45	-1243.12	494329.45	652406.18	1.45	
9827.00	22.12	223.29	9383.55	6014.55	1270.78	-1779.17	-1267.37	494303.73	652381.93	0.58	
9922.00	22.70	223.79	9471.38	6102.38	1295.78	-1805.42	-1292.31	494277.48	652356.99	0.64	
10016.00	23.05	225.51	9557.98	6188.98	1321.51	-1831.41	-1317.99	494251.49	652331.31	0.80	
10111.00	22.71	224.75	9645.51	6276.51	1347.74	-1857.47	-1344.17	494225.43	652305.13	0.47	
10205.00	21.11	222.43	9732.72	6363.72	1371.98	-1882.85	-1368.37	494200.05	652280.93	1.94	
10300.00	20.97	222.55	9821.39	6452.39	1395.07	-1908.00	-1391.41	494174.90	652257.89	0.15	
10394.00	19.99	224.43	9909.44	6540.44	1417.74	-1931.86	-1414.03	494151.04	652235.27	1.26	
10490.00	19.38	225.77	9999.83	6630.83	1440.68	-1954.69	-1436.93	494128.21	652212.37	0.79	
10584.00	19.52	224.21	10088.47	6719.47	1462.85	-1976.83	-1459.06	494106.07	652190.24	0.57	
10679.00	20.64	224.07	10177.69	6808.69	1485.61	-2000.24	-1481.77	494082.66	652167.53	1.18	
10774.00	20.79	224.80	10266.55	6897.55	1509.18	-2024.23	-1505.30	494058.67	652144.00	0.31	
10868.00	21.35	226.39	10354.27	6985.27	1533.37	-2047.87	-1529.44	494035.03	652119.86	0.85	
10962.00	20.69	223.51	10442.02	7073.02	1557.24	-2071.72	-1553.26	494011.18	652096.04	1.30	
11057.00	19.88	222.12	10531.12	7162.12	1579.67	-2095.87	-1575.65	493987.03	652073.65	0.99	
11137.00	20.41	222.93	10606.23	7237.23	1598.33	-2116.17	-1594.27	493966.73	652055.03	0.75	
11232.00	23.53	230.19	10694.34	7325.34	1624.24	-2140.45	-1620.14	493942.45	652029.16	4.35	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
11279.00	27.31	239.04	10736.79	7367.79	1640.73	-2152.01	-1636.60	493930.89	652012.70	11.38	
11326.00	30.96	244.49	10777.85	7408.85	1660.92	-2162.77	-1656.77	493920.13	651992.53	9.59	
11373.00	34.23	246.18	10817.44	7448.44	1683.95	-2173.32	-1679.78	493909.58	651969.52	7.22	
11421.00	36.92	248.69	10856.48	7487.48	1709.76	-2184.01	-1705.57	493898.89	651943.73	6.38	
11468.00	39.92	252.18	10893.30	7524.30	1737.29	-2193.76	-1733.08	493889.14	651916.22	7.87	
11515.00	42.37	254.47	10928.70	7559.70	1766.93	-2202.62	-1762.70	493880.28	651886.60	6.12	
11562.00	44.83	254.55	10962.73	7593.73	1798.18	-2211.28	-1793.94	493871.62	651855.36	5.24	
11610.00	48.01	256.41	10995.82	7626.82	1831.85	-2219.98	-1827.60	493862.92	651821.70	7.19	
11657.00	51.59	258.52	11026.15	7657.15	1866.91	-2227.75	-1862.63	493855.15	651786.67	8.35	
11704.00	56.41	259.80	11053.77	7684.77	1904.26	-2234.89	-1899.97	493848.01	651749.33	10.49	
11751.00	60.20	262.43	11078.46	7709.46	1943.77	-2241.04	-1939.47	493841.86	651709.83	9.36	
11798.00	64.23	264.84	11100.37	7731.37	1985.09	-2245.63	-1980.78	493837.27	651668.52	9.70	
11845.00	69.85	265.56	11118.69	7749.69	2028.20	-2249.25	-2023.89	493833.65	651625.41	12.04	
11893.00	72.08	267.33	11134.35	7765.35	2073.49	-2252.06	-2069.17	493830.84	651580.13	5.81	
11940.00	74.42	268.72	11147.89	7778.89	2118.47	-2253.60	-2114.15	493829.30	651535.15	5.73	
11988.00	78.23	269.56	11159.24	7790.24	2165.10	-2254.30	-2160.77	493828.60	651488.53	8.12	
12035.00	83.48	269.32	11166.71	7797.71	2211.48	-2254.75	-2207.16	493828.15	651442.14	11.18	
12082.00	87.69	268.82	11170.33	7801.33	2258.33	-2255.52	-2254.00	493827.38	651395.30	9.02	
12177.00	88.88	265.68	11173.17	7804.17	2353.17	-2260.07	-2348.84	493822.83	651300.46	3.53	
12271.00	89.65	265.70	11174.37	7805.37	2446.91	-2267.14	-2442.56	493815.76	651206.74	0.82	
12366.00	90.35	266.10	11174.37	7805.37	2541.68	-2273.93	-2537.32	493808.97	651111.98	0.85	
12461.00	90.49	266.30	11173.68	7804.68	2636.48	-2280.22	-2632.11	493802.68	651017.19	0.26	
12555.00	90.56	268.63	11172.82	7803.82	2730.38	-2284.38	-2726.00	493798.52	650923.30	2.48	
12650.00	91.75	268.87	11170.90	7801.90	2825.34	-2286.45	-2820.96	493796.45	650828.34	1.28	
12745.00	90.07	270.48	11169.39	7800.39	2920.32	-2286.99	-2915.94	493795.91	650733.36	2.45	
12839.00	92.03	269.86	11167.67	7798.67	3014.30	-2286.71	-3009.92	493796.19	650639.38	2.19	
12933.00	91.68	269.25	11164.63	7795.63	3108.25	-2287.44	-3103.87	493795.46	650545.43	0.75	
13027.00	89.93	270.40	11163.31	7794.31	3202.24	-2287.73	-3197.85	493795.17	650451.45	2.23	
13121.00	86.43	271.50	11166.29	7797.29	3296.16	-2286.17	-3291.77	493796.73	650357.53	3.90	
13215.00	89.79	272.00	11169.39	7800.39	3390.04	-2283.30	-3385.67	493799.60	650263.63	3.61	
13309.00	91.75	271.72	11168.13	7799.13	3483.97	-2280.25	-3479.60	493802.65	650169.70	2.11	
13403.00	92.31	269.51	11164.80	7795.80	3577.90	-2279.24	-3573.53	493803.66	650075.77	2.42	
13497.00	89.65	267.39	11163.19	7794.19	3671.84	-2281.79	-3667.47	493801.11	649981.83	3.62	
13591.00	88.74	265.66	11164.51	7795.51	3765.67	-2287.48	-3761.28	493795.42	649888.02	2.08	
13686.00	90.84	264.69	11164.86	7795.86	3860.34	-2295.47	-3855.94	493787.43	649793.36	2.43	
13779.00	88.88	265.98	11165.09	7796.09	3953.04	-2303.04	-3948.62	493779.86	649700.68	2.52	
13873.00	89.79	269.15	11166.18	7797.18	4046.94	-2307.03	-4042.52	493775.87	649606.78	3.51	
13967.00	89.65	270.57	11166.64	7797.64	4140.94	-2307.26	-4136.52	493775.64	649512.78	1.52	
14061.00	87.97	269.48	11168.59	7799.59	4234.91	-2307.22	-4230.49	493775.68	649418.81	2.13	
14156.00	88.81	269.10	11171.26	7802.26	4329.87	-2308.39	-4325.45	493774.51	649323.85	0.97	
14251.00	90.91	268.74	11171.49	7802.49	4424.85	-2310.18	-4420.42	493772.72	649228.88	2.24	
14344.00	87.55	268.93	11172.74	7803.74	4517.81	-2312.08	-4513.38	493770.82	649135.92	3.62	
14439.00	89.79	270.82	11174.95	7805.95	4612.78	-2312.28	-4608.35	493770.62	649040.95	3.08	
14532.00	92.17	270.26	11173.36	7804.36	4705.75	-2311.41	-4701.32	493771.49	648947.98	2.63	
14626.00	90.07	270.82	11171.52	7802.52	4799.72	-2310.52	-4795.29	493772.38	648854.01	2.31	
14720.00	89.93	270.22	11171.52	7802.52	4893.71	-2309.67	-4889.29	493773.23	648760.01	0.66	
14814.00	89.16	271.23	11172.26	7803.26	4987.70	-2308.48	-4983.28	493774.42	648666.02	1.35	
14908.00	90.07	269.80	11172.90	7803.90	5081.69	-2307.63	-5077.27	493775.27	648572.03	1.80	
15003.00	89.58	270.61	11173.19	7804.19	5176.69	-2307.29	-5172.27	493775.61	648477.03	1.00	
15098.00	89.51	270.99	11173.94	7804.94	5271.67	-2305.97	-5267.25	493776.93	648382.05	0.41	
15193.00	89.72	273.37	11174.58	7805.58	5366.59	-2302.35	-5362.18	493780.55	648287.12	2.51	
15288.00	90.00	273.18	11174.81	7805.81	5461.42	-2296.93	-5457.02	493785.97	648192.28	0.36	
15382.00	90.56	272.03	11174.35	7805.35	5555.31	-2292.65	-5550.92	493790.25	648098.38	1.36	
15477.00	91.05	271.33	11173.02	7804.02	5650.25	-2289.87	-5645.87	493793.03	648003.43	0.90	
15571.00	88.67	268.33	11173.25	7804.25	5744.24	-2290.15	-5739.85	493792.75	647909.45	4.07	
15665.00	88.46	269.96	11175.60	7806.60	5838.20	-2291.55	-5833.81	493791.35	647815.49	1.75	
15759.00	87.55	269.92	11178.87	7809.87	5932.14	-2291.65	-5927.75	493791.25	647721.55	0.97	
15853.00	89.37	271.42	11181.40	7812.40	6026.09	-2290.55	-6021.70	493792.35	647627.60	2.51	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
15948.00	90.49	270.68	11181.52	7812.52	6121.07	-2288.81	-6116.68	493794.09	647532.62	1.41	
16043.00	91.47	269.05	11179.89	7810.89	6216.05	-2289.03	-6211.67	493793.87	647437.63	2.00	
16137.00	91.54	270.17	11177.42	7808.42	6310.01	-2289.67	-6305.63	493793.23	647343.67	1.19	
16230.00	89.23	270.32	11176.80	7807.80	6403.00	-2289.27	-6398.62	493793.63	647250.68	2.49	
16322.00	90.63	271.07	11176.91	7807.91	6494.99	-2288.16	-6490.61	493794.74	647158.69	1.73	
16417.00	91.47	269.86	11175.17	7806.17	6589.97	-2287.39	-6585.59	493795.51	647063.71	1.55	
16511.00	89.37	269.71	11174.48	7805.48	6683.96	-2287.74	-6679.58	493795.16	646969.72	2.24	
16606.00	89.09	268.74	11175.76	7806.76	6778.94	-2289.02	-6774.56	493793.88	646874.74	1.06	
16700.00	88.74	269.27	11177.54	7808.54	6872.92	-2290.66	-6868.53	493792.24	646780.77	0.68	
16794.00	89.51	270.12	11178.97	7809.97	6966.90	-2291.16	-6962.52	493791.74	646686.78	1.22	
16888.00	90.84	269.10	11178.68	7809.68	7060.90	-2291.80	-7056.51	493791.10	646592.79	1.78	
16982.00	91.47	269.52	11176.79	7807.79	7154.87	-2292.93	-7150.48	493789.97	646498.82	0.81	
17076.00	90.84	270.42	11174.90	7805.90	7248.85	-2292.98	-7244.46	493789.92	646404.84	1.17	
17169.00	91.05	270.13	11173.36	7804.36	7341.84	-2292.53	-7337.45	493790.37	646311.85	0.38	
17264.00	90.98	271.19	11171.68	7802.68	7436.81	-2291.44	-7432.43	493791.46	646216.87	1.12	
17358.00	90.98	270.19	11170.07	7801.07	7530.79	-2290.30	-7526.40	493792.60	646122.90	1.06	
17452.00	91.68	268.36	11167.89	7798.89	7624.75	-2291.49	-7620.37	493791.41	646028.93	2.08	
17546.00	90.70	268.83	11165.94	7796.94	7718.71	-2293.80	-7714.32	493789.10	645934.98	1.16	
17640.00	90.42	269.88	11165.02	7796.02	7812.70	-2294.86	-7808.31	493788.04	645840.99	1.16	
17734.00	90.00	269.45	11164.67	7795.67	7906.70	-2295.41	-7902.30	493787.49	645747.00	0.64	
17796.00	90.37	268.65	11164.47	7795.47	7968.69	-2296.43	-7964.29	493786.47	645685.01	1.42	
17890.00	89.69	267.86	11164.42	7795.42	8062.65	-2299.30	-8058.25	493783.60	645591.05	1.11	
17985.00	89.69	267.89	11164.94	7795.94	8157.59	-2302.82	-8153.18	493780.08	645496.12	0.03	
18079.00	90.06	269.12	11165.14	7796.14	8251.56	-2305.27	-8247.15	493777.63	645402.15	1.37	
18173.00	89.94	270.03	11165.14	7796.14	8345.56	-2305.97	-8341.14	493776.93	645308.16	0.98	
18267.00	90.06	271.39	11165.14	7796.14	8439.54	-2304.80	-8435.13	493778.10	645214.17	1.45	
18361.00	89.69	272.26	11165.35	7796.35	8533.49	-2301.81	-8529.09	493781.09	645120.21	1.01	
18455.00	90.00	272.97	11165.60	7796.60	8627.38	-2297.52	-8622.99	493785.38	645026.31	0.82	
18549.00	89.82	272.63	11165.75	7796.75	8721.26	-2292.93	-8716.87	493789.97	644932.43	0.41	
18643.00	89.69	272.23	11166.15	7797.15	8815.17	-2288.94	-8810.79	493793.96	644838.51	0.45	
18737.00	89.75	271.79	11166.61	7797.61	8909.10	-2285.65	-8904.73	493797.25	644744.57	0.47	
18831.00	89.63	271.56	11167.12	7798.12	9003.05	-2282.90	-8998.69	493800.00	644650.61	0.28	
18926.00	90.19	272.16	11167.27	7798.27	9098.00	-2279.82	-9093.64	493803.08	644555.66	0.86	
19019.00	90.62	271.96	11166.61	7797.61	9190.93	-2276.47	-9186.57	493806.43	644462.73	0.51	
19113.00	90.12	271.29	11166.00	7797.00	9284.88	-2273.81	-9280.53	493809.09	644368.77	0.89	
19208.00	90.00	271.28	11165.91	7796.91	9379.85	-2271.68	-9375.51	493811.22	644273.79	0.13	
19302.00	90.25	270.39	11165.70	7796.70	9473.84	-2270.31	-9469.50	493812.59	644179.80	0.98	
19396.00	90.06	269.70	11165.45	7796.45	9567.84	-2270.23	-9563.50	493812.67	644085.80	0.76	
19491.00	90.37	269.48	11165.09	7796.09	9662.84	-2270.91	-9658.49	493811.99	643990.81	0.40	
19585.00	90.19	269.38	11164.63	7795.63	9756.83	-2271.85	-9752.49	493811.05	643896.81	0.22	
19680.00	90.37	268.74	11164.17	7795.17	9851.82	-2273.41	-9847.47	493809.49	643801.83	0.70	
19774.00	90.62	269.56	11163.35	7794.35	9945.81	-2274.80	-9941.46	493808.10	643707.84	0.91	
19868.00	90.49	269.73	11162.44	7793.44	10039.80	-2275.38	-10035.45	493807.52	643613.85	0.23	
19963.00	89.94	269.52	11162.09	7793.09	10134.80	-2276.01	-10130.45	493806.89	643518.85	0.62	
20057.00	90.37	270.08	11161.83	7792.83	10228.80	-2276.33	-10224.45	493806.57	643424.85	0.75	
20151.00	90.62	269.56	11161.02	7792.02	10322.80	-2276.63	-10318.44	493806.27	643330.86	0.61	
20246.00	90.37	268.39	11160.20	7791.20	10417.78	-2278.33	-10413.42	493804.57	643235.88	1.26	
20340.00	90.00	267.76	11159.90	7790.90	10511.73	-2281.49	-10507.37	493801.41	643141.93	0.78	
20434.00	90.19	267.17	11159.74	7790.74	10605.65	-2285.64	-10601.28	493797.26	643048.02	0.66	
20528.00	90.68	268.58	11159.03	7790.03	10699.58	-2289.13	-10695.21	493793.77	642954.09	1.59	
20623.00	90.68	269.15	11157.90	7788.90	10794.56	-2291.01	-10790.18	493791.89	642859.12	0.60	
20717.00	90.37	269.39	11157.04	7788.04	10888.55	-2292.21	-10884.17	493790.69	642765.13	0.42	
20812.00	90.25	269.37	11156.52	7787.52	10983.54	-2293.24	-10979.16	493789.66	642670.14	0.13	
20906.00	90.49	269.79	11155.92	7786.92	11077.54	-2293.92	-11073.16	493788.98	642576.14	0.51	
21001.00	90.74	270.02	11154.90	7785.90	11172.54	-2294.08	-11168.15	493788.82	642481.15	0.36	
21095.00	90.43	270.07	11153.94	7784.94	11266.53	-2294.01	-11262.15	493788.89	642387.15	0.33	
21190.00	90.31	269.48	11153.32	7784.32	11361.53	-2294.38	-11357.14	493788.52	642292.16	0.63	
21284.00	90.25	268.99	11152.86	7783.86	11455.52	-2295.64	-11451.13	493787.26	642198.17	0.53	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
21378.00	90.12	268.75	11152.56	7783.56	11549.50	-2297.49	-11545.11	493785.41	642104.19	0.29	
21471.00	90.56	269.44	11152.01	7783.01	11642.49	-2298.96	-11638.10	493783.94	642011.20	0.88	
21565.00	90.56	269.83	11151.09	7782.09	11736.49	-2299.56	-11732.09	493783.34	641917.21	0.41	
21660.00	90.68	270.04	11150.06	7781.06	11831.48	-2299.67	-11827.09	493783.23	641822.21	0.25	
21754.00	90.43	270.38	11149.15	7780.15	11925.48	-2299.32	-11921.08	493783.58	641728.22	0.45	
21853.00	90.55	270.80	11148.31	7779.31	12024.46	-2298.30	-12020.07	493784.60	641629.23	0.44	
21947.00	90.49	270.90	11147.45	7778.45	12118.45	-2296.91	-12114.06	493785.99	641535.24	0.12	
22041.00	90.49	270.90	11146.65	7777.65	12212.43	-2295.43	-12208.04	493787.47	641441.26	0.00	
22135.00	90.55	270.83	11145.79	7776.79	12306.41	-2294.01	-12302.03	493788.89	641347.27	0.10	
22230.00	90.56	270.45	11144.87	7775.87	12401.40	-2292.95	-12397.02	493789.95	641252.28	0.40	
22325.00	90.68	270.48	11143.85	7774.85	12496.39	-2292.18	-12492.01	493790.72	641157.29	0.13	
22419.00	90.56	270.84	11142.83	7773.83	12590.37	-2291.10	-12586.00	493791.80	641063.30	0.40	
22514.00	90.80	270.33	11141.70	7772.70	12685.36	-2290.13	-12680.99	493792.77	640968.31	0.59	
22608.00	90.56	270.28	11140.59	7771.59	12779.35	-2289.63	-12774.98	493793.27	640874.32	0.26	
22703.00	90.55	270.49	11139.67	7770.67	12874.34	-2288.99	-12869.97	493793.91	640779.33	0.22	
22798.00	90.49	270.40	11138.80	7769.80	12969.33	-2288.25	-12964.97	493794.65	640684.33	0.11	
22893.00	90.56	270.31	11137.93	7768.93	13064.33	-2287.66	-13059.96	493795.24	640589.34	0.12	
22988.00	90.43	269.93	11137.11	7768.11	13159.32	-2287.46	-13154.96	493795.44	640494.34	0.42	
23083.00	90.49	269.44	11136.35	7767.35	13254.32	-2287.99	-13249.95	493794.91	640399.35	0.52	
23177.00	90.62	268.88	11135.44	7766.44	13348.31	-2289.36	-13343.94	493793.54	640305.36	0.61	
23271.00	90.56	268.96	11134.47	7765.47	13442.29	-2291.13	-13437.91	493791.77	640211.39	0.11	
23366.00	90.37	268.48	11133.70	7764.70	13537.27	-2293.26	-13532.89	493789.64	640116.41	0.54	
23460.00	90.62	268.51	11132.89	7763.89	13631.23	-2295.73	-13626.85	493787.17	640022.45	0.27	
23555.00	90.68	268.63	11131.81	7762.81	13726.20	-2298.10	-13721.82	493784.80	639927.48	0.14	
23650.00	90.43	268.60	11130.89	7761.89	13821.17	-2300.39	-13816.78	493782.51	639832.52	0.27	
23745.00	90.49	268.13	11130.13	7761.13	13916.14	-2303.10	-13911.74	493779.80	639737.56	0.50	
23840.00	90.68	268.47	11129.16	7760.16	14011.10	-2305.92	-14006.69	493776.98	639642.61	0.41	
23935.00	90.56	269.03	11128.13	7759.13	14106.07	-2307.99	-14101.67	493774.91	639547.63	0.60	
24031.00	90.74	269.34	11127.04	7758.04	14202.06	-2309.36	-14197.65	493773.54	639451.65	0.37	
24125.00	90.19	269.68	11126.28	7757.28	14296.05	-2310.16	-14291.64	493772.74	639357.66	0.69	
24220.00	90.74	271.62	11125.51	7756.51	14391.04	-2309.09	-14386.63	493773.81	639262.67	2.12	
24314.00	90.37	271.81	11124.60	7755.60	14484.98	-2306.27	-14480.58	493776.63	639168.72	0.44	
24409.00	90.86	272.11	11123.58	7754.58	14579.91	-2303.02	-14575.52	493779.88	639073.78	0.60	
24504.00	90.43	272.49	11122.51	7753.51	14674.82	-2299.21	-14670.44	493783.69	638978.86	0.60	
24598.00	90.37	271.82	11121.85	7752.85	14768.75	-2295.68	-14764.37	493787.22	638884.93	0.72	
24693.00	90.06	271.29	11121.49	7752.49	14863.71	-2293.10	-14859.33	493789.80	638789.97	0.65	
24788.00	90.62	270.55	11120.93	7751.93	14958.69	-2291.57	-14954.32	493791.33	638694.98	0.98	
24883.00	89.94	271.45	11120.47	7751.47	15053.67	-2289.91	-15049.30	493792.99	638600.00	1.19	
24978.00	90.49	271.84	11120.11	7751.11	15148.62	-2287.19	-15144.26	493795.71	638505.04	0.71	
25072.00	90.74	272.64	11119.10	7750.10	15242.54	-2283.51	-15238.18	493799.39	638411.12	0.89	
25166.00	90.43	271.16	11118.14	7749.14	15336.47	-2280.40	-15332.12	493802.50	638317.18	1.61	
25229.00	89.94	270.11	11117.94	7748.94	15399.47	-2279.70	-15395.12	493803.20	638254.18	1.84	Last WFT SVY
25255.00	89.94	270.11	11117.97	7748.97	15425.46	-2279.65	-15421.12	493803.25	638228.18	0.00	Proj. to TD



Weatherford®

SURVEY REPORT

Report Date: 5/27/2020

Customer: XTO Energy

Job Name: 14032733

Well Name: James Ranch Unit DI 2

Field: Los Medanos

Rig: Noram 25

Rig Loc: Eddy Co., NM

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	269.89 deg	47852 nT	60.06 deg	7.01 deg	0.27 deg	6.74 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	0.00 ft	0.00 deg	0.00 deg	0.00 ft	0.00 ft	0.00 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199.00	0.12	249.89	199.00	-0.07	-0.20	0.20	0.06
227.00	0.16	264.69	227.00	-0.09	-0.26	0.26	0.19
301.00	0.24	251.09	301.00	-0.15	-0.51	0.51	0.12
361.00	0.16	285.71	361.00	-0.16	-0.71	0.71	0.24
704.00	0.32	203.79	704.00	-0.91	-1.56	1.56	0.10
795.00	0.18	201.02	795.00	-1.28	-1.71	1.71	0.15
885.00	0.22	220.91	885.00	-1.54	-1.88	1.88	0.09
976.00	0.27	140.21	975.99	-1.84	-1.85	1.86	0.35
1068.00	0.14	177.10	1067.99	-2.11	-1.71	1.71	0.19
1159.00	0.50	153.86	1158.99	-2.58	-1.53	1.53	0.41
1250.00	0.52	147.02	1249.99	-3.28	-1.13	1.14	0.07
1340.00	0.32	161.90	1339.99	-3.87	-0.83	0.84	0.25
1433.00	0.52	151.94	1432.98	-4.49	-0.55	0.56	0.23
1623.00	0.44	141.96	1622.98	-5.82	0.31	-0.29	0.06
1718.00	0.46	151.84	1717.97	-6.44	0.71	-0.70	0.08
1814.00	0.21	152.94	1813.97	-6.94	0.97	-0.96	0.26
1909.00	0.16	134.86	1908.97	-7.19	1.15	-1.13	0.08
2003.00	0.18	128.99	2002.97	-7.37	1.35	-1.34	0.03
2098.00	0.21	195.14	2097.97	-7.64	1.42	-1.41	0.23
2193.00	0.24	178.72	2192.97	-8.00	1.38	-1.37	0.07
2288.00	0.17	90.35	2287.97	-8.20	1.53	-1.51	0.31
2383.00	0.18	112.28	2382.97	-8.26	1.81	-1.79	0.07
2478.00	0.08	59.56	2477.97	-8.28	2.00	-1.99	0.15
2573.00	0.36	135.20	2572.97	-8.46	2.27	-2.25	0.37
2668.00	0.34	149.67	2667.97	-8.92	2.62	-2.61	0.10
2762.00	0.25	111.72	2761.96	-9.23	2.95	-2.94	0.22
2949.00	0.64	132.62	2948.96	-10.09	4.10	-4.08	0.22
3044.00	1.34	125.97	3043.94	-11.10	5.39	-5.37	0.75
3138.00	2.28	120.73	3137.90	-12.70	7.89	-7.86	1.01
3233.00	2.97	117.71	3232.80	-14.81	11.69	-11.66	0.74
3328.00	3.89	121.95	3327.63	-17.66	16.60	-16.57	1.00
3422.00	4.03	125.34	3421.40	-21.26	22.00	-21.96	0.29
3517.00	4.91	127.93	3516.11	-25.69	27.93	-27.89	0.95
3611.00	5.69	125.60	3609.71	-30.88	34.90	-34.84	0.86

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
3672.00	5.91	121.07	3670.40	-34.26	40.05	-39.98	0.83
3790.00	6.18	121.64	3787.74	-40.73	50.66	-50.58	0.23
3885.00	7.54	139.38	3882.07	-48.14	59.07	-58.98	2.63
3979.00	8.17	160.54	3975.21	-59.12	65.31	-65.20	3.13
4073.00	9.57	177.65	4068.10	-73.23	67.86	-67.72	3.16
4168.00	11.58	191.93	4161.49	-90.45	66.21	-66.04	3.46
4262.00	13.89	202.24	4253.19	-110.13	59.99	-59.78	3.44
4356.00	16.34	205.37	4343.93	-132.53	50.05	-49.79	2.75
4451.00	18.85	206.44	4434.48	-158.35	37.49	-37.18	2.66
4545.00	21.74	205.94	4522.63	-187.61	23.11	-22.75	3.08
4640.00	24.47	207.03	4610.00	-220.96	6.47	-6.04	2.91
4734.00	25.18	207.82	4695.32	-255.99	-11.71	12.20	0.83
4829.00	25.54	208.01	4781.16	-291.94	-30.76	31.32	0.39
4923.00	26.11	208.26	4865.78	-328.05	-50.07	50.70	0.62
5017.00	27.12	208.40	4949.81	-365.12	-70.06	70.76	1.08
5112.00	26.43	211.04	5034.63	-402.28	-91.26	92.03	1.45
5206.00	25.25	215.25	5119.24	-436.58	-113.62	114.46	2.32
5300.00	26.00	216.13	5203.99	-469.60	-137.34	138.24	0.89
5395.00	26.65	218.50	5289.14	-503.09	-162.88	163.85	1.30
5483.00	26.75	221.87	5367.76	-533.29	-188.39	189.41	1.72
5578.00	26.85	223.63	5452.56	-564.74	-217.46	218.54	0.84
5672.00	26.18	224.43	5536.67	-594.91	-246.62	247.76	0.81
5767.00	25.74	224.37	5622.09	-624.62	-275.72	276.92	0.46
5861.00	25.31	224.33	5706.91	-653.58	-304.03	305.29	0.46
5956.00	24.92	223.91	5792.93	-682.53	-332.10	333.41	0.45
6050.00	24.57	224.24	5878.30	-710.80	-359.47	360.84	0.40
6144.00	23.20	222.33	5964.25	-738.49	-385.58	386.99	1.67
6239.00	21.66	221.44	6052.06	-765.47	-409.78	411.25	1.66
6334.00	21.29	222.25	6140.46	-791.38	-432.98	434.50	0.50
6428.00	20.21	222.09	6228.36	-816.06	-455.34	456.91	1.15
6522.00	19.39	218.11	6316.81	-840.39	-475.86	477.47	1.68
6616.00	19.33	219.16	6405.50	-864.73	-495.31	496.97	0.38
6710.00	19.70	219.20	6494.10	-889.07	-515.15	516.85	0.39
6805.00	19.73	218.11	6583.53	-914.09	-535.16	536.92	0.39
6899.00	22.13	218.16	6671.32	-940.50	-555.90	557.70	2.55
6994.00	22.11	218.10	6759.33	-968.64	-577.99	579.85	0.03
7089.00	23.36	218.42	6846.94	-997.47	-600.72	602.64	1.32
7183.00	22.72	218.22	6933.44	-1026.33	-623.53	625.50	0.69
7278.00	22.66	219.04	7021.09	-1054.96	-646.41	648.44	0.34
7372.00	22.76	220.72	7107.81	-1082.80	-669.68	671.76	0.70
7467.00	22.26	219.93	7195.57	-1110.53	-693.22	695.35	0.62
7561.00	24.10	218.66	7281.98	-1139.17	-716.63	718.82	2.03
7656.00	25.78	218.81	7368.11	-1170.42	-741.70	743.95	1.77
7750.00	25.12	219.15	7452.99	-1201.82	-767.11	769.42	0.72
7844.00	24.59	218.90	7538.29	-1232.51	-791.99	794.35	0.57
7938.00	23.71	219.21	7624.06	-1262.38	-816.22	818.64	0.95
8033.00	22.46	219.48	7711.45	-1291.18	-839.83	842.31	1.32
8127.00	20.91	220.18	7798.79	-1317.86	-862.07	864.60	1.67
8222.00	21.18	219.29	7887.46	-1344.09	-883.88	886.46	0.44
8317.00	20.81	219.73	7976.15	-1370.35	-905.53	908.16	0.42

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
8411.00	20.27	219.55	8064.17	-1395.75	-926.57	929.25	0.58
8506.00	19.49	220.80	8153.51	-1420.44	-947.41	950.13	0.94
8601.00	20.26	219.57	8242.85	-1445.11	-968.24	971.01	0.92
8696.00	19.96	218.68	8332.06	-1470.45	-988.85	991.67	0.45
8791.00	20.78	218.88	8421.12	-1496.23	-1009.56	1012.43	0.87
8885.00	20.67	219.74	8509.04	-1521.97	-1030.64	1033.56	0.34
8979.00	21.68	220.31	8596.69	-1547.96	-1052.48	1055.45	1.10
9021.00	22.46	221.29	8635.61	-1559.91	-1062.79	1065.78	2.05
9165.00	23.39	222.74	8768.24	-1601.57	-1100.34	1103.41	0.76
9260.00	24.01	222.77	8855.23	-1629.61	-1126.26	1129.39	0.65
9354.00	21.65	223.51	8941.86	-1656.23	-1151.19	1154.37	2.53
9448.00	20.22	222.10	9029.65	-1680.86	-1174.02	1177.24	1.61
9543.00	20.89	224.06	9118.60	-1705.21	-1196.81	1200.08	1.01
9637.00	20.21	223.99	9206.62	-1728.94	-1219.74	1223.05	0.72
9732.00	21.57	223.33	9295.37	-1753.45	-1243.12	1246.48	1.45
9827.00	22.12	223.29	9383.55	-1779.17	-1267.37	1270.78	0.58
9922.00	22.70	223.79	9471.38	-1805.42	-1292.31	1295.78	0.64
10016.00	23.05	225.51	9557.98	-1831.41	-1317.99	1321.51	0.80
10111.00	22.71	224.75	9645.51	-1857.47	-1344.17	1347.74	0.47
10205.00	21.11	222.43	9732.72	-1882.85	-1368.37	1371.98	1.94
10300.00	20.97	222.55	9821.39	-1908.00	-1391.41	1395.07	0.15
10394.00	19.99	224.43	9909.44	-1931.86	-1414.03	1417.74	1.26
10490.00	19.38	225.77	9999.83	-1954.69	-1436.93	1440.68	0.79
10584.00	19.52	224.21	10088.47	-1976.83	-1459.06	1462.85	0.57
10679.00	20.64	224.07	10177.69	-2000.24	-1481.77	1485.61	1.18
10774.00	20.79	224.80	10266.55	-2024.23	-1505.30	1509.18	0.31
10868.00	21.35	226.39	10354.27	-2047.87	-1529.44	1533.37	0.85
10962.00	20.69	223.51	10442.01	-2071.72	-1553.26	1557.24	1.30
11057.00	19.88	222.12	10531.12	-2095.87	-1575.65	1579.67	0.99
11137.00	20.41	222.93	10606.23	-2116.17	-1594.27	1598.33	0.75
11232.00	23.53	230.19	10694.33	-2140.45	-1620.14	1624.24	4.35
11279.00	27.31	239.04	10736.79	-2152.01	-1636.60	1640.73	11.38
11326.00	30.96	244.49	10777.85	-2162.77	-1656.77	1660.92	9.59
11373.00	34.23	246.18	10817.44	-2173.32	-1679.78	1683.95	7.22
11421.00	36.92	248.69	10856.48	-2184.01	-1705.57	1709.76	6.38
11468.00	39.92	252.18	10893.30	-2193.76	-1733.08	1737.29	7.87
11515.00	42.37	254.47	10928.69	-2202.62	-1762.70	1766.93	6.12
11562.00	44.83	254.55	10962.73	-2211.28	-1793.94	1798.18	5.24
11610.00	48.01	256.41	10995.81	-2219.98	-1827.60	1831.85	7.19
11657.00	51.59	258.52	11026.15	-2227.75	-1862.63	1866.91	8.35
11704.00	56.41	259.80	11053.77	-2234.89	-1899.97	1904.26	10.49
11751.00	60.20	262.43	11078.46	-2241.04	-1939.47	1943.77	9.36
11798.00	64.23	264.84	11100.37	-2245.63	-1980.78	1985.09	9.70
11845.00	69.85	265.56	11118.69	-2249.25	-2023.89	2028.20	12.04
11893.00	72.08	267.33	11134.35	-2252.06	-2069.17	2073.49	5.81
11940.00	74.42	268.72	11147.89	-2253.60	-2114.15	2118.47	5.73
11988.00	78.23	269.56	11159.24	-2254.30	-2160.77	2165.10	8.12
12035.00	83.48	269.32	11166.71	-2254.75	-2207.16	2211.48	11.18
12082.00	87.69	268.82	11170.32	-2255.52	-2254.00	2258.33	9.02
12177.00	88.88	265.68	11173.17	-2260.07	-2348.84	2353.17	3.53

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
12271.00	89.65	265.70	11174.37	-2267.14	-2442.56	2446.91	0.82
12366.00	90.35	266.10	11174.37	-2273.93	-2537.32	2541.68	0.85
12461.00	90.49	266.30	11173.68	-2280.22	-2632.11	2636.48	0.26
12555.00	90.56	268.63	11172.82	-2284.38	-2726.00	2730.38	2.48
12650.00	91.75	268.87	11170.90	-2286.45	-2820.96	2825.34	1.28
12745.00	90.07	270.48	11169.39	-2286.99	-2915.94	2920.32	2.45
12839.00	92.03	269.86	11167.67	-2286.71	-3009.92	3014.30	2.19
12933.00	91.68	269.25	11164.63	-2287.44	-3103.87	3108.25	0.75
13027.00	89.93	270.40	11163.31	-2287.73	-3197.85	3202.24	2.23
13121.00	86.43	271.50	11166.29	-2286.17	-3291.77	3296.16	3.90
13215.00	89.79	272.00	11169.39	-2283.30	-3385.67	3390.04	3.61
13309.00	91.75	271.72	11168.13	-2280.25	-3479.60	3483.97	2.11
13403.00	92.31	269.51	11164.80	-2279.24	-3573.53	3577.90	2.42
13497.00	89.65	267.39	11163.19	-2281.79	-3667.47	3671.84	3.62
13591.00	88.74	265.66	11164.51	-2287.48	-3761.28	3765.67	2.08
13686.00	90.84	264.69	11164.86	-2295.47	-3855.94	3860.34	2.43
13779.00	88.88	265.98	11165.09	-2303.04	-3948.62	3953.04	2.52
13873.00	89.79	269.15	11166.18	-2307.03	-4042.52	4046.94	3.51
13967.00	89.65	270.57	11166.64	-2307.26	-4136.52	4140.94	1.52
14061.00	87.97	269.48	11168.59	-2307.22	-4230.49	4234.91	2.13
14156.00	88.81	269.10	11171.26	-2308.39	-4325.45	4329.87	0.97
14251.00	90.91	268.74	11171.49	-2310.18	-4420.42	4424.85	2.24
14344.00	87.55	268.93	11172.74	-2312.08	-4513.38	4517.81	3.62
14439.00	89.79	270.82	11174.94	-2312.28	-4608.35	4612.78	3.08
14532.00	92.17	270.26	11173.35	-2311.41	-4701.32	4705.75	2.63
14626.00	90.07	270.82	11171.52	-2310.52	-4795.29	4799.72	2.31
14720.00	89.93	270.22	11171.52	-2309.67	-4889.29	4893.71	0.66
14814.00	89.16	271.23	11172.26	-2308.48	-4983.28	4987.70	1.35
14908.00	90.07	269.80	11172.90	-2307.63	-5077.27	5081.69	1.80
15003.00	89.58	270.61	11173.19	-2307.29	-5172.27	5176.69	1.00
15098.00	89.51	270.99	11173.94	-2305.97	-5267.25	5271.67	0.41
15193.00	89.72	273.37	11174.58	-2302.35	-5362.18	5366.59	2.51
15288.00	90.00	273.18	11174.81	-2296.93	-5457.02	5461.42	0.36
15382.00	90.56	272.03	11174.35	-2292.65	-5550.92	5555.31	1.36
15477.00	91.05	271.33	11173.02	-2289.87	-5645.87	5650.25	0.90
15571.00	88.67	268.33	11173.25	-2290.15	-5739.85	5744.24	4.07
15665.00	88.46	269.96	11175.60	-2291.55	-5833.81	5838.20	1.75
15759.00	87.55	269.92	11178.87	-2291.65	-5927.75	5932.14	0.97
15853.00	89.37	271.42	11181.40	-2290.55	-6021.70	6026.09	2.51
15948.00	90.49	270.68	11181.51	-2288.81	-6116.68	6121.07	1.41
16043.00	91.47	269.05	11179.89	-2289.03	-6211.67	6216.05	2.00
16137.00	91.54	270.17	11177.42	-2289.67	-6305.63	6310.01	1.19
16230.00	89.23	270.32	11176.80	-2289.27	-6398.62	6403.00	2.49
16322.00	90.63	271.07	11176.91	-2288.16	-6490.61	6494.99	1.73
16417.00	91.47	269.86	11175.17	-2287.39	-6585.59	6589.97	1.55
16511.00	89.37	269.71	11174.48	-2287.74	-6679.58	6683.96	2.24
16606.00	89.09	268.74	11175.76	-2289.02	-6774.56	6778.94	1.06
16700.00	88.74	269.27	11177.54	-2290.66	-6868.53	6872.91	0.68
16794.00	89.51	270.12	11178.97	-2291.16	-6962.52	6966.90	1.22
16888.00	90.84	269.10	11178.68	-2291.80	-7056.51	7060.90	1.78

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
16982.00	91.47	269.52	11176.79	-2292.93	-7150.48	7154.87	0.81
17076.00	90.84	270.42	11174.89	-2292.98	-7244.46	7248.85	1.17
17169.00	91.05	270.13	11173.36	-2292.53	-7337.45	7341.84	0.38
17264.00	90.98	271.19	11171.68	-2291.44	-7432.43	7436.81	1.12
17358.00	90.98	270.19	11170.07	-2290.30	-7526.40	7530.79	1.06
17452.00	91.68	268.36	11167.89	-2291.49	-7620.37	7624.75	2.08
17546.00	90.70	268.83	11165.94	-2293.80	-7714.32	7718.71	1.16
17640.00	90.42	269.88	11165.02	-2294.86	-7808.31	7812.70	1.16
17734.00	90.00	269.45	11164.67	-2295.41	-7902.30	7906.70	0.64
17796.00	90.37	268.65	11164.47	-2296.43	-7964.29	7968.69	1.42
17890.00	89.69	267.86	11164.42	-2299.30	-8058.25	8062.65	1.11
17985.00	89.69	267.89	11164.94	-2302.82	-8153.18	8157.59	0.03
18079.00	90.06	269.12	11165.14	-2305.27	-8247.15	8251.56	1.37
18173.00	89.94	270.03	11165.14	-2305.97	-8341.14	8345.56	0.98
18267.00	90.06	271.39	11165.14	-2304.80	-8435.13	8439.54	1.45
18361.00	89.69	272.26	11165.35	-2301.81	-8529.09	8533.49	1.01
18455.00	90.00	272.97	11165.60	-2297.52	-8622.99	8627.38	0.82
18549.00	89.82	272.63	11165.75	-2292.93	-8716.87	8721.26	0.41
18643.00	89.69	272.23	11166.15	-2288.94	-8810.79	8815.17	0.45
18737.00	89.75	271.79	11166.61	-2285.65	-8904.73	8909.10	0.47
18831.00	89.63	271.56	11167.12	-2282.90	-8998.69	9003.05	0.28
18926.00	90.19	272.16	11167.27	-2279.82	-9093.64	9098.00	0.86
19019.00	90.62	271.96	11166.61	-2276.47	-9186.57	9190.93	0.51
19113.00	90.12	271.29	11166.00	-2273.81	-9280.53	9284.88	0.89
19208.00	90.00	271.28	11165.90	-2271.68	-9375.51	9379.85	0.13
19302.00	90.25	270.39	11165.70	-2270.31	-9469.50	9473.84	0.98
19396.00	90.06	269.70	11165.44	-2270.23	-9563.50	9567.84	0.76
19491.00	90.37	269.48	11165.09	-2270.91	-9658.49	9662.84	0.40
19585.00	90.19	269.38	11164.63	-2271.85	-9752.49	9756.83	0.22
19680.00	90.37	268.74	11164.16	-2273.41	-9847.47	9851.82	0.70
19774.00	90.62	269.56	11163.35	-2274.80	-9941.46	9945.81	0.91
19868.00	90.49	269.73	11162.44	-2275.38	-10035.45	10039.80	0.23
19963.00	89.94	269.52	11162.09	-2276.01	-10130.45	10134.80	0.62
20057.00	90.37	270.08	11161.83	-2276.33	-10224.45	10228.80	0.75
20151.00	90.62	269.56	11161.02	-2276.63	-10318.44	10322.80	0.61
20246.00	90.37	268.39	11160.20	-2278.33	-10413.42	10417.78	1.26
20340.00	90.00	267.76	11159.89	-2281.49	-10507.37	10511.73	0.78
20434.00	90.19	267.17	11159.74	-2285.64	-10601.28	10605.64	0.66
20528.00	90.68	268.58	11159.03	-2289.13	-10695.21	10699.58	1.59
20623.00	90.68	269.15	11157.90	-2291.01	-10790.18	10794.56	0.60
20717.00	90.37	269.39	11157.04	-2292.21	-10884.17	10888.55	0.42
20812.00	90.25	269.37	11156.52	-2293.24	-10979.16	10983.54	0.13
20906.00	90.49	269.79	11155.92	-2293.92	-11073.16	11077.54	0.51
21001.00	90.74	270.02	11154.90	-2294.08	-11168.15	11172.53	0.36
21095.00	90.43	270.07	11153.94	-2294.01	-11262.15	11266.53	0.33
21190.00	90.31	269.48	11153.32	-2294.38	-11357.14	11361.53	0.63
21284.00	90.25	268.99	11152.86	-2295.64	-11451.13	11455.52	0.53
21378.00	90.12	268.75	11152.56	-2297.49	-11545.11	11549.50	0.29
21471.00	90.56	269.44	11152.01	-2298.96	-11638.10	11642.49	0.88
21565.00	90.56	269.83	11151.09	-2299.56	-11732.09	11736.49	0.41

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
21660.00	90.68	270.04	11150.06	-2299.67	-11827.09	11831.48	0.25
21754.00	90.43	270.38	11149.15	-2299.32	-11921.08	11925.48	0.45
21853.00	90.55	270.80	11148.30	-2298.30	-12020.07	12024.46	0.44
21947.00	90.49	270.90	11147.45	-2296.91	-12114.06	12118.45	0.12
22041.00	90.49	270.90	11146.65	-2295.43	-12208.04	12212.43	0.00
22135.00	90.55	270.83	11145.79	-2294.01	-12302.03	12306.41	0.10
22230.00	90.56	270.45	11144.87	-2292.95	-12397.02	12401.40	0.40
22325.00	90.68	270.48	11143.85	-2292.18	-12492.01	12496.39	0.13
22419.00	90.56	270.84	11142.83	-2291.10	-12586.00	12590.37	0.40
22514.00	90.80	270.33	11141.70	-2290.13	-12680.99	12685.36	0.59
22608.00	90.56	270.28	11140.59	-2289.63	-12774.98	12779.35	0.26
22703.00	90.55	270.49	11139.67	-2288.99	-12869.97	12874.34	0.22
22798.00	90.49	270.40	11138.80	-2288.25	-12964.96	12969.33	0.11
22893.00	90.56	270.31	11137.93	-2287.66	-13059.96	13064.33	0.12
22988.00	90.43	269.93	11137.11	-2287.46	-13154.95	13159.32	0.42
23083.00	90.49	269.44	11136.35	-2287.99	-13249.95	13254.32	0.52
23177.00	90.62	268.88	11135.44	-2289.36	-13343.94	13348.31	0.61
23271.00	90.56	268.96	11134.47	-2291.13	-13437.91	13442.29	0.11
23366.00	90.37	268.48	11133.70	-2293.26	-13532.89	13537.26	0.54
23460.00	90.62	268.51	11132.89	-2295.73	-13626.85	13631.23	0.27
23555.00	90.68	268.63	11131.81	-2298.10	-13721.81	13726.20	0.14
23650.00	90.43	268.60	11130.89	-2300.39	-13816.78	13821.17	0.27
23745.00	90.49	268.13	11130.13	-2303.10	-13911.74	13916.14	0.50
23840.00	90.68	268.47	11129.16	-2305.92	-14006.69	14011.09	0.41
23935.00	90.56	269.03	11128.13	-2307.99	-14101.66	14106.07	0.60
24031.00	90.74	269.34	11127.04	-2309.36	-14197.65	14202.06	0.37
24125.00	90.19	269.68	11126.28	-2310.16	-14291.64	14296.05	0.69
24220.00	90.74	271.62	11125.51	-2309.09	-14386.63	14391.03	2.12
24314.00	90.37	271.81	11124.60	-2306.27	-14480.58	14484.98	0.44
24409.00	90.86	272.11	11123.58	-2303.02	-14575.52	14579.91	0.60
24504.00	90.43	272.49	11122.51	-2299.21	-14670.44	14674.82	0.60
24598.00	90.37	271.82	11121.85	-2295.68	-14764.37	14768.75	0.72
24693.00	90.06	271.29	11121.49	-2293.10	-14859.33	14863.71	0.65
24788.00	90.62	270.55	11120.93	-2291.57	-14954.32	14958.69	0.98
24883.00	89.94	271.45	11120.47	-2289.91	-15049.30	15053.67	1.19
24978.00	90.49	271.84	11120.11	-2287.19	-15144.26	15148.62	0.71
25072.00	90.74	272.64	11119.10	-2283.51	-15238.18	15242.54	0.89
25166.00	90.43	271.16	11118.14	-2280.40	-15332.12	15336.47	1.61
25229.00	89.94	270.11	11117.94	-2279.70	-15395.12	15399.46	1.84
Projected to Total Depth:							
25255.00	89.94	270.11	11117.96	-2279.65	-15421.12	15425.46	0.00

Weatherford surveys from 199.00 ft MD to 25229.00 ft MD

TD at 25255.00 ft MD

The total correction is 6.74 deg relative to Grid North.

Submit To Appropriate District Office Two Copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017												
		1. WELL API NO. 30-015-45616		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		3. State Oil & Gas Lease No.												
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name JAMES RANCH UNIT DI 2 6. Well Number: 113H												
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator XTO PERMIAN OPERATING LLC.						9. OGRID 373075												
10. Address of Operator 6401 HOLIDAY HILL RD BLDG #5, MIDLAND TX 79707						11. Pool name or Wildcat LOS MEDANOS; WOLFCAMP (GAS)												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	K	25	22S	30E		2600	South	2080	West	Eddy								
BH:	O	28	22S	30E		353	South	2642	East	Eddy								
13. Date Spudded 4/14/2020	14. Date T.D. Reached 5/27/2020	15. Date Rig Released 6/1/2020			16. Date Completed (Ready to Produce) 5/27/2021			17. Elevations (DF and RKB, RT, GR, etc.) 3343' GL										
18. Total Measured Depth of Well 25,255			19. Plug Back Measured Depth 25,253			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run CBL										
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,057 - 25,115 LOS MEDANOS; WOLFCAMP (GAS)																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
18 5/8"		87.5		622'		24"		1090										
13 3/8"		68.0		3,734'		17 1/2"		2590										
9 5/8"		40.0		9,106'		12 1/4"		2350										
5 1/2"		23.0		25,255'		8 1/2"		3400										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET										
						2 7/8"	11,069	11,054										
26. Perforation record (interval, size, and number) 12,057 - 25,115 2spf, 2221 Total Shots 153 stages						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>12,057 - 25,115</td> <td>747,263 bbl fluid + 33,304,793 lbs proppant</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	12,057 - 25,115	747,263 bbl fluid + 33,304,793 lbs proppant				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
12,057 - 25,115	747,263 bbl fluid + 33,304,793 lbs proppant																	
28. PRODUCTION																		
Date First Production 5/28/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing												
Date of Test 5/31/2021	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 1801	Gas - MCF 3736	Water - Bbl. 2190	Gas - Oil Ratio 2074											
Flow Tubing Press. 353	Casing Pressure 525	Calculated 24-Hour Rate	Oil - Bbl. 1801	Gas - MCF 3736	Water - Bbl. 2190	Oil Gravity - API - (Corr.)												
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By											
31. List Attachments C-104 NW, C-102 & Supplement, Directional Survey (Log uploaded to NMOCD)																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:											
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude				Longitude				NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																		
Signature <i>JoAnne Baltier</i>				Printed Name JoAnne Baltier		Title Regulatory Analyst		Date 7/15/21										
E-mail Address cassie.evans@xtoenergy.com																		

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 438'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 3124'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 3,342'	T. Morrison	
T. Drinkard	T. Bone Springs 7,019'	T. Todilto	
T. Abo	T. Rustler 239'	T. Entrada	
T. Wolfcamp 10,383'	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

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

ACKNOWLEDGMENTS

Action 37538

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 37538
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 37538

CONDITIONS

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	Action Number: 37538
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/2/2021