

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan
Grisham Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



08/14/2020

Operator Notice Regarding
C-104 Denial and Request for Information
30-015-45396 JAMES RANCH UNIT DI 1 BS2A 7W #212H

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

*Please review/amend attachment(s):
Mark C-104 NW, 'AMENDED REPORT'
Amend/Verify highlighted areas.*

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☐ Directional Survey
- ☒ C-102 (As-Drilled Plat for Horizontal Well) *Revise highlighted attached.*

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) *Approved Sundry missing*
- ☒ C-105 Completion Report (or BLM equivalent) *Missing BLM REVISED approval copy/review highlighted fields*
- ☐ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Once Complete, re-submit through e docs asap. Thank you.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Rec'd 08/07/2020 - NMOCD

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address		² OGRID Number	
		³ Reason for Filing Code/ Effective Date	
⁴ API Number 30 - 0	⁵ Pool Name		⁶ Pool Code
⁷ Property Code	⁸ Property Name		⁹ Well Number

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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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
¹² Lse Code	¹³ Producing Method Code		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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:  Printed name: Title: E-mail Address: Date: Phone:		OIL CONSERVATION DIVISION	
		Approved by:	
		Title:	
		Approval Date:	

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 30-015-45396	² Pool Code 97905	³ Pool Name WC G-07 S223021G; Bone Spring
⁴ Property Code 32284	⁵ Property Name JAMES RANCH UNIT DI 1 BS2A-7W	⁶ Well Number 212H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,166'

¹⁰ Surface Location

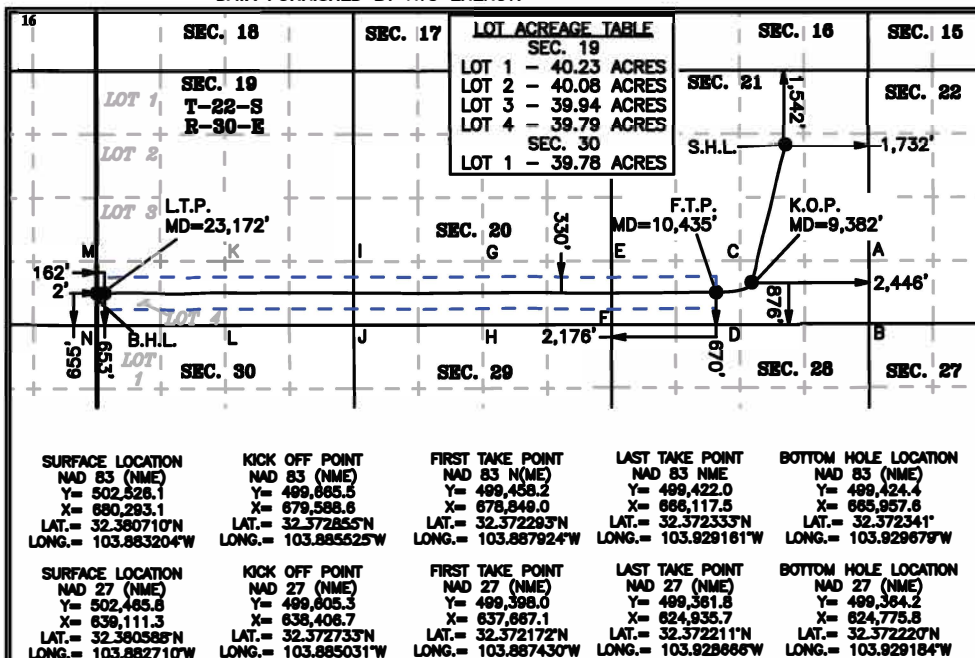
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	22 S	30 E		1,542	NORTH	1,732	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	19	22 S	30 E		655	SOUTH	2	WEST	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.



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: *Tracie J. Cherry* Date: 06/29/20

Tracie J. Cherry, Regulatory Coordinator
Printed Name

tracie_cherry@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.

6-23-2020

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

RR

2017050647

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	



Weatherford

Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

XTO Energy
6401 Holliday Hill Road
Midland, TX 79707

Date: September 4, 2019

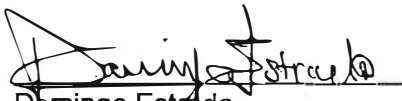
Attention: Manny Garcia

Re: XTO Energy
Well: James Ranch Unit DI 1 BS2A-7W #212H
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:

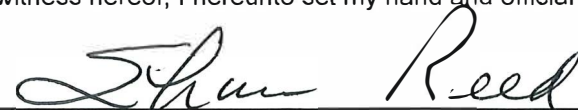
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Domingo Estrada	212H	155 MD	7/27/2019	Measurement
MWD Ops. Coordinator		23,303 MD	9/3/2019	While Drilling

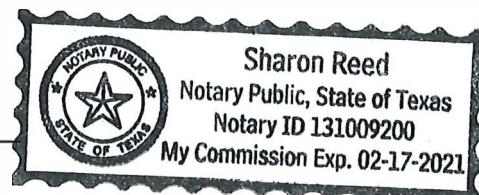
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Domingo Estrada
MWD Ops. Coordinator

On this, the 10th day of September, 2019, before me a notary public, the undersigned officer, personally appeared Domingo Estrada, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public



**5D Survey Report****XTO Energy**

Field Name: *XTO NAD 27 NME*
Site Name: *James Ranch Unit DI 1 #210H_211H_212H_213H*
Well Name: *James Ranch Unit DI 1 BS2A-7W #212H*
File number: *13840321*
Survey: *Definitive survey*

4 September 2019





James Ranch Unit DI 1 BS2A-7W #212H

Field Name: XTO NAD 27 NME	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 1 #210H_211H_2 12H_213H	Units: US ft	North Reference: Grid	Convergence Angle: 0.24	
	Position:	Northing: 502465.80 US ft	Latitude: 32° 22' 50.12"	
		Easting: 639082.80 US ft	Longitude: -103° 52' 58.09"	
	Elevation above MSL: 3166.00 US ft			
Comment: Eddy Co, NM				
Slot: James Ranch Unit DI 1 BS2A- 7W #212H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 502465.80 US ft	Latitude: 32° 22' 50.12"	
	+E/-W: 28.50 US ft	Easting: 639111.30 US ft	Longitude: -103° 52' 57.76"	
	Elevation above MSL: 3166.00 US ft			
Comment:				
Well: James Ranch Unit DI 1 BS2A- 7W #212H	Type: Main well		UWI:	
	File Number: 13840321	Comment: Noram 25		
	Closure Distance: 14667.2US ft		Closure Azimuth: 257.79°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 269.91°	
Drill floor: Survey Name: Definitive Survey				
Rig Height (Well TVD Reference): Elevation above MSL: 3191.00US ft Inclinaton: 0.00° Azimuth: 0.00° 25.00US ft				
Survey Name:Definitive Survey				
Date: 05/Feb/2019		Survey Tool: See Survey Tool Ranges below.	Company:	
Magnetic Model:				
Model Name: MagVar IFR	Date: 01/Aug/2019	Field Strength: 47908.0nT	Declination: 7.13°	Dip: 60.10°
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

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD + IFR	0.00	331.00	WFT MWD+IFR_1
NO SURV 2d	331.00	420.00	WFT No Surv 2d_1
NO SURV 1d	420.00	680.00	WFT No Surv 1d_2
MWD + IFR	680.00	2175.00	WFT MWD+IFR_2
MWD + IFR	2175.00	3367.00	WFT MWD+IFR_3
MWD + IFR	3367.00	7460.00	WFT MWD+IFR_4
MWD + IFR + MS	7460.00	9522.00	WFT MWD+IFR+MS_5
MWD + IFR + MS	9522.00	10375.00	WFT MWD+IFR+MS_6
MWD + IFR + MS	10375.00	19560.00	WFT MWD+IFR+MS_7
MWD + IFR + MS	19560.00	23332.00	WFT MWD+IFR+MS_8

Casing Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	TVD (MSL) (US ft)	Northing (US ft)	Easting (US ft)	Name
539.00	0.25	198.14	538.89	0.71	-8.39	-2652.11	502466.51	639102.91	18 5/8 in
3443.00	23.86	193.05	3373.00	-449.15	-115.07	182.00	502016.65	638996.23	13 3/8 in
7533.00	24.14	192.07	7083.51	-2118.69	-524.51	3892.51	500347.11	638586.79	9 5/8 in

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	502465.80	639111.30	0.00	33.66	First WFT SVY
155.00	0.07	354.86	155.00	0.01	0.09	-0.01	502465.89	639111.29	0.09	354.86	
243.00	1.79	272.53	242.99	1.39	0.21	-1.39	502466.01	639109.91	1.40	278.55	
331.00	2.02	276.91	330.94	4.30	0.46	-4.30	502466.26	639107.00	4.32	276.05	
391.00	1.60	284.93	390.91	6.16	0.80	-6.16	502466.60	639105.14	6.21	277.39	
420.00	1.36	271.66	419.90	6.89	0.91	-6.89	502466.71	639104.41	6.95	277.55	18 5/8 in
539.00	0.25	198.14	538.89	8.38	0.71	-8.39	502466.51	639102.91	8.42	274.84	
586.00	0.55	128.67	585.88	8.24	0.47	-8.24	502466.27	639103.06	8.25	273.28	
680.00	0.72	127.55	679.88	7.42	-0.17	-7.42	502465.63	639103.88	7.42	268.69	
774.00	0.56	143.35	773.87	6.68	-0.90	-6.68	502464.90	639104.62	6.74	262.34	
851.00	0.72	133.94	850.87	6.11	-1.54	-6.10	502464.26	639105.20	6.29	255.88	
945.00	0.63	142.05	944.86	5.37	-2.35	-5.36	502463.45	639105.94	5.86	246.31	
1039.00	0.78	142.01	1038.85	4.66	-3.26	-4.65	502462.54	639106.65	5.68	234.93	
1134.00	0.76	147.69	1133.85	3.92	-4.31	-3.92	502461.49	639107.38	5.82	222.27	
1228.00	0.95	145.16	1227.84	3.15	-5.47	-3.14	502460.33	639108.16	6.31	209.82	
1323.00	1.22	148.76	1322.82	2.17	-6.98	-2.16	502458.82	639109.14	7.31	197.20	
1418.00	1.09	141.11	1417.80	1.08	-8.55	-1.07	502457.25	639110.23	8.62	187.14	
1513.00	1.61	166.53	1512.77	0.21	-10.55	-0.19	502455.25	639111.11	10.56	181.05	
1607.00	2.55	178.79	1606.71	-0.14	-13.93	0.16	502451.87	639111.46	13.93	179.34	
1701.00	3.80	185.79	1700.56	0.14	-19.12	-0.11	502446.68	639111.19	19.12	180.33	
1796.00	5.01	190.40	1795.28	1.22	-26.33	-1.18	502439.47	639110.12	26.36	182.56	
1890.00	6.01	192.52	1888.85	3.04	-35.17	-2.99	502430.63	639108.31	35.30	184.85	
1985.00	7.57	195.06	1983.18	5.76	-46.07	-5.69	502419.73	639105.61	46.42	187.04	
2080.00	9.00	195.65	2077.18	9.41	-59.27	-9.32	502406.53	639101.98	60.00	188.94	
2175.00	10.05	195.49	2170.87	13.66	-74.41	-13.54	502391.39	639097.76	75.63	190.31	
2269.00	10.92	195.01	2263.30	18.18	-90.92	-18.03	502374.88	639093.27	92.69	191.22	
2364.00	11.28	197.20	2356.53	23.28	-108.48	-23.11	502357.32	639088.19	110.92	192.03	
2459.00	12.13	199.29	2449.55	29.36	-126.78	-29.16	502339.02	639082.14	130.09	192.95	
2552.00	14.57	199.02	2540.03	36.43	-147.06	-36.20	502318.74	639075.10	151.45	193.83	
2647.00	15.49	194.96	2631.78	43.64	-170.62	-43.37	502295.18	639067.93	176.04	194.26	
2742.00	17.24	194.13	2722.93	50.39	-196.53	-50.08	502269.27	639061.22	202.81	194.30	
2837.00	18.92	193.82	2813.24	57.55	-225.14	-57.20	502240.66	639054.10	232.29	194.25	
2930.00	19.99	195.25	2900.92	65.38	-255.12	-64.98	502210.68	639046.32	263.26	194.29	
3025.00	21.51	196.88	2989.76	74.76	-287.45	-74.31	502178.35	639036.99	296.90	194.49	
3120.00	22.97	193.98	3077.69	84.35	-322.11	-83.84	502143.69	639027.46	332.84	194.59	
3215.00	23.69	195.12	3164.93	93.86	-358.52	-93.30	502107.28	639018.00	370.46	194.59	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
3310.00	24.44	193.68	3251.67	103.55	-396.04	-102.93	502069.76	639008.37	409.20	194.57	
3367.00	24.26	192.44	3303.60	108.90	-418.93	-108.24	502046.87	639003.06	432.69	194.49	
3443.00	23.86	193.05	3373.00	115.78	-449.15	-115.07	502016.65	638996.23	463.66	194.37	13 3/8 in
3500.00	23.56	193.52	3425.19	121.08	-471.46	-120.34	501994.34	638990.96	486.58	194.32	
3594.00	23.98	193.72	3511.21	130.06	-508.28	-129.26	501957.52	638982.04	524.46	194.27	
3688.00	23.74	194.40	3597.18	139.35	-545.17	-138.50	501920.63	638972.80	562.48	194.25	
3783.00	25.09	194.32	3683.68	149.15	-583.21	-148.24	501882.59	638963.06	601.75	194.26	
3877.00	25.60	194.88	3768.63	159.36	-622.15	-158.38	501843.65	638952.92	641.99	194.28	
3970.00	25.23	194.65	3852.63	169.59	-660.74	-168.55	501805.06	638942.75	681.90	194.31	
4065.00	25.27	192.93	3938.56	179.31	-700.09	-178.21	501765.71	638933.09	722.42	194.28	
4159.00	24.88	192.88	4023.70	188.27	-738.92	-187.11	501726.88	638924.19	762.24	194.21	
4254.00	25.29	190.89	4109.74	196.62	-778.33	-195.40	501687.47	638915.90	802.48	194.09	
4348.00	25.53	190.19	4194.64	204.06	-817.99	-202.77	501647.81	638908.53	842.74	193.92	
4442.00	25.01	190.83	4279.65	211.44	-857.44	-210.09	501608.36	638901.21	882.80	193.77	
4537.00	24.87	192.35	4365.79	219.54	-896.68	-218.14	501569.12	638893.16	922.83	193.67	
4632.00	25.28	192.76	4451.84	228.36	-935.98	-226.89	501529.82	638884.41	963.08	193.63	
4727.00	25.57	192.34	4537.64	237.28	-975.79	-235.75	501490.01	638875.55	1003.86	193.58	
4821.00	25.50	193.01	4622.46	246.24	-1015.32	-244.64	501450.48	638866.66	1044.38	193.55	
4916.00	25.51	193.09	4708.20	255.54	-1055.17	-253.88	501410.63	638857.42	1085.28	193.53	
5010.00	25.42	192.33	4793.07	264.49	-1094.59	-262.77	501371.21	638848.53	1125.69	193.50	
5104.00	25.48	193.42	4877.94	273.55	-1133.97	-271.77	501331.83	638839.53	1166.08	193.48	
5198.00	25.39	193.60	4962.83	283.05	-1173.23	-281.20	501292.57	638830.10	1206.46	193.48	
5293.00	25.08	193.89	5048.77	292.73	-1212.57	-290.83	501253.23	638820.47	1246.96	193.49	
5388.00	24.54	193.83	5135.00	302.34	-1251.27	-300.37	501214.53	638810.93	1286.82	193.50	
5483.00	24.86	193.34	5221.31	311.72	-1289.86	-309.70	501175.94	638801.60	1326.52	193.50	
5578.00	25.24	193.38	5307.37	321.08	-1328.99	-318.99	501136.81	638792.31	1366.74	193.50	
5673.00	25.89	193.80	5393.07	330.78	-1368.84	-328.63	501096.96	638782.67	1407.73	193.50	
5768.00	26.34	195.55	5478.37	341.44	-1409.29	-339.22	501056.51	638772.08	1449.54	193.53	
5862.00	26.48	194.71	5562.56	352.41	-1449.65	-350.14	501016.15	638761.16	1491.33	193.58	
5957.00	26.52	194.76	5647.58	363.26	-1490.64	-360.92	500975.16	638750.38	1533.71	193.61	
6051.00	26.18	195.97	5731.81	374.37	-1530.87	-371.97	500934.93	638739.33	1575.41	193.66	
6146.00	25.29	195.59	5817.39	385.66	-1570.56	-383.19	500895.24	638728.11	1616.63	193.71	
6240.00	23.87	194.90	5902.87	396.00	-1608.29	-393.48	500857.51	638717.82	1655.72	193.75	
6335.00	23.66	195.75	5989.82	406.18	-1645.21	-403.59	500820.59	638707.71	1693.99	193.78	
6429.00	22.90	195.40	6076.16	416.21	-1680.99	-413.57	500784.81	638697.73	1731.12	193.82	
6523.00	23.00	195.31	6162.72	425.97	-1716.34	-423.28	500749.46	638688.02	1767.76	193.85	
6617.00	24.00	194.85	6248.92	435.78	-1752.53	-433.02	500713.27	638678.28	1805.23	193.88	
6712.00	24.45	194.86	6335.56	445.83	-1790.21	-443.02	500675.59	638668.28	1844.21	193.90	
6806.00	23.46	195.74	6421.46	455.95	-1827.02	-453.08	500638.78	638658.22	1882.36	193.93	
6901.00	23.43	194.48	6508.62	465.86	-1863.51	-462.94	500602.29	638648.36	1920.15	193.95	
6995.00	24.57	193.69	6594.49	475.22	-1900.59	-472.23	500565.21	638639.07	1958.38	193.95	
7090.00	24.75	193.83	6680.83	484.71	-1939.09	-481.66	500526.71	638629.64	1998.02	193.95	
7185.00	24.80	194.15	6767.08	494.39	-1977.72	-491.29	500488.08	638620.01	2037.83	193.95	
7280.00	24.63	193.23	6853.38	503.85	-2016.31	-500.69	500449.49	638610.61	2077.55	193.95	
7375.00	24.70	193.27	6939.71	513.00	-2054.90	-509.77	500410.90	638601.53	2117.19	193.93	
7460.00	24.52	193.30	7016.99	521.19	-2089.35	-517.91	500376.45	638593.39	2152.58	193.92	
7533.00	24.14	192.07	7083.51	527.84	-2118.69	-524.51	500347.11	638586.79	2182.65	193.90	9 5/8 in
7565.00	23.97	191.52	7112.73	530.53	-2131.46	-527.18	500334.34	638584.12	2195.68	193.89	
7629.00	25.30	191.40	7170.91	535.87	-2157.60	-532.48	500308.20	638578.82	2222.34	193.86	
7724.00	24.58	193.97	7257.05	544.71	-2196.68	-541.26	500269.12	638570.04	2262.38	193.84	
7818.00	24.24	195.19	7342.65	554.55	-2234.27	-551.04	500231.53	638560.26	2301.22	193.85	
7913.00	24.60	195.16	7429.15	564.89	-2272.18	-561.32	500193.62	638549.98	2340.48	193.88	
8008.00	24.71	195.64	7515.49	575.47	-2310.38	-571.84	500155.42	638539.46	2380.10	193.90	
8103.00	23.18	194.10	7602.31	585.44	-2347.64	-581.75	500118.16	638529.55	2418.65	193.92	
8197.00	22.07	192.48	7689.07	593.82	-2382.83	-590.08	500082.97	638521.22	2454.80	193.91	
8292.00	23.19	190.77	7776.76	601.23	-2418.63	-597.43	500047.17	638513.87	2491.32	193.87	
8386.00	27.64	189.27	7861.64	608.26	-2458.35	-604.40	500007.45	638506.90	2531.56	193.81	
8480.00	27.82	187.24	7944.85	614.61	-2501.63	-610.68	499964.17	638500.62	2575.09	193.72	
8575.00	23.99	190.51	8030.29	620.99	-2542.63	-617.00	499923.17	638494.30	2616.42	193.64	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
8669.00	23.53	192.61	8116.33	628.63	-2579.73	-624.58	499886.07	638486.72	2654.26	193.61	
8763.00	22.97	194.34	8202.69	637.33	-2615.81	-633.22	499849.99	638478.08	2691.36	193.61	
8859.00	21.89	192.58	8291.43	645.92	-2651.43	-641.76	499814.37	638469.54	2727.99	193.61	
8954.00	21.13	192.80	8379.81	653.63	-2685.41	-649.41	499780.39	638461.89	2762.81	193.59	
9048.00	24.34	198.36	8466.51	663.54	-2720.33	-659.27	499745.47	638452.03	2799.07	193.62	
9143.00	25.77	199.58	8552.57	676.69	-2758.37	-672.36	499707.43	638438.94	2839.13	193.70	
9238.00	26.06	197.41	8638.02	689.91	-2797.74	-685.52	499668.06	638425.78	2880.50	193.77	
9333.00	27.46	196.30	8722.84	702.37	-2838.67	-697.91	499627.13	638413.39	2923.21	193.81	
9380.00	28.09	197.16	8764.42	708.71	-2859.65	-704.22	499606.15	638407.08	2945.08	193.83	
9427.00	28.74	202.19	8805.77	716.28	-2880.69	-711.75	499585.11	638399.55	2967.31	193.88	
9474.00	28.81	208.37	8846.97	725.96	-2901.12	-721.40	499564.68	638389.90	2989.47	193.96	
9522.00	28.84	213.93	8889.03	737.95	-2920.90	-733.36	499544.90	638377.94	3011.56	194.09	
9570.00	28.92	222.33	8931.08	752.26	-2939.10	-747.65	499526.70	638363.65	3032.70	194.27	
9618.00	30.76	230.18	8972.73	769.54	-2955.54	-764.90	499510.26	638346.40	3052.92	194.51	
9665.00	34.36	238.11	9012.36	790.07	-2970.26	-785.41	499495.54	638325.89	3072.35	194.81	
9712.00	37.12	244.39	9050.51	814.15	-2983.40	-809.47	499482.40	638301.83	3091.27	195.18	
9759.00	40.22	248.23	9087.21	841.06	-2995.17	-836.36	499470.63	638274.94	3109.75	195.60	
9807.00	44.12	252.72	9122.79	871.45	-3005.88	-866.72	499459.92	638244.58	3128.35	196.08	
9854.00	48.84	253.53	9155.14	904.07	-3015.76	-899.33	499450.04	638211.97	3147.00	196.61	
9902.00	54.71	256.56	9184.84	940.50	-3025.45	-935.75	499440.35	638175.55	3166.86	197.19	
9949.00	60.19	258.95	9210.12	979.22	-3033.82	-974.45	499431.98	638136.85	3186.48	197.81	
9996.00	64.93	261.75	9231.77	1020.33	-3040.79	-1015.56	499425.01	638095.74	3205.90	198.47	
10043.00	69.11	264.39	9250.12	1063.28	-3046.00	-1058.50	499419.80	638052.80	3224.67	199.16	
10091.00	72.44	265.73	9265.92	1108.44	-3049.89	-1103.65	499415.91	638007.65	3243.44	199.89	
10138.00	76.87	265.40	9278.36	1153.62	-3053.40	-1148.83	499412.40	637962.47	3262.37	200.62	
10186.00	81.36	264.79	9287.42	1200.58	-3057.43	-1195.78	499408.37	637915.52	3282.95	201.36	
10233.00	87.55	265.46	9291.96	1247.17	-3061.40	-1242.37	499404.40	637868.93	3303.88	202.09	
10281.00	91.89	266.74	9292.19	1295.05	-3064.67	-1290.24	499401.13	637821.06	3325.19	202.83	
10375.00	90.63	269.78	9290.13	1388.98	-3067.52	-1384.16	499398.28	637727.14	3365.35	204.29	
10439.00	89.93	269.61	9289.81	1452.98	-3067.86	-1448.16	499397.94	637663.14	3392.48	205.27	
10533.00	90.56	269.50	9289.41	1546.97	-3068.59	-1542.16	499397.21	637569.14	3434.31	206.68	
10627.00	90.49	269.69	9288.55	1640.97	-3069.25	-1636.15	499396.55	637475.15	3478.12	208.06	
10721.00	90.56	269.66	9287.69	1734.96	-3069.79	-1730.14	499396.01	637381.16	3523.77	209.41	
10816.00	90.21	269.20	9287.05	1829.96	-3070.73	-1825.14	499395.07	637286.16	3572.19	210.73	
10911.00	90.35	269.47	9286.59	1924.95	-3071.83	-1920.13	499393.97	637191.17	3622.58	212.01	
11005.00	90.63	269.45	9285.78	2018.95	-3072.72	-2014.12	499393.08	637097.18	3674.00	213.24	
11099.00	90.91	269.61	9284.52	2112.93	-3073.49	-2108.11	499392.31	637003.19	3726.99	214.45	
11193.00	90.84	269.50	9283.08	2206.92	-3074.22	-2202.10	499391.58	636909.20	3781.54	215.61	
11288.00	90.98	269.58	9281.57	2301.91	-3074.98	-2297.08	499390.82	636814.22	3838.24	216.76	
11383.00	90.98	269.56	9279.95	2396.89	-3075.70	-2392.06	499390.10	636719.24	3896.39	217.87	
11476.00	90.91	269.43	9278.42	2489.88	-3076.52	-2485.05	499389.28	636626.25	3954.80	218.93	
11570.00	90.98	269.56	9276.87	2583.86	-3077.34	-2579.03	499388.46	636532.27	4015.15	219.97	
11664.00	90.98	269.37	9275.26	2677.85	-3078.22	-2673.01	499387.58	636438.29	4076.82	220.97	
11758.00	90.91	269.34	9273.71	2771.83	-3079.28	-2766.99	499386.52	636344.31	4139.83	221.94	
11852.00	90.98	269.47	9272.16	2865.81	-3080.26	-2860.98	499385.54	636250.32	4203.95	222.89	
11947.00	90.91	269.50	9270.59	2960.80	-3081.11	-2955.96	499384.69	636155.34	4269.77	223.81	
12042.00	90.91	269.48	9269.08	3055.78	-3081.95	-3050.94	499383.85	636060.36	4336.67	224.71	
12136.00	90.98	269.44	9267.53	3149.77	-3082.84	-3144.93	499382.96	635966.37	4403.92	225.57	
12230.00	90.91	269.16	9265.98	3243.75	-3083.99	-3238.91	499381.81	635872.39	4472.30	226.40	
12325.00	90.91	269.27	9264.47	3338.73	-3085.29	-3333.89	499380.51	635777.41	4542.45	227.22	
12419.00	90.91	269.27	9262.98	3432.71	-3086.49	-3427.87	499379.31	635683.43	4612.67	228.00	
12513.00	91.05	269.35	9261.37	3526.69	-3087.62	-3521.85	499378.18	635589.45	4683.67	228.76	
12608.00	90.91	268.90	9259.75	3621.67	-3089.07	-3616.82	499376.73	635494.48	4756.44	229.50	
12702.00	90.84	269.11	9258.31	3715.65	-3090.70	-3710.80	499375.10	635400.50	4829.33	230.21	
12797.00	90.84	269.13	9256.92	3810.63	-3092.16	-3805.77	499373.64	635305.53	4903.61	230.91	
12891.00	91.05	269.65	9255.37	3904.61	-3093.16	-3899.76	499372.64	635211.54	4977.52	231.58	
12986.00	90.98	271.05	9253.69	3999.59	-3092.58	-3994.74	499373.22	635116.56	5051.93	232.25	
13080.00	90.91	270.75	9252.14	4093.56	-3091.11	-4088.71	499374.69	635022.59	5125.67	232.91	
13175.00	91.12	270.95	9250.45	4188.54	-3089.70	-4183.69	499376.10	634927.61	5200.91	233.55	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
13270.00	90.91	269.77	9248.77	4283.52	-3089.10	-4278.67	499376.70	634832.63	5277.27	234.17	
13365.00	90.98	271.05	9247.20	4378.50	-3088.42	-4373.65	499377.38	634737.65	5354.17	234.77	
13460.00	90.98	271.05	9245.58	4473.46	-3086.68	-4468.62	499379.12	634642.68	5431.04	235.37	
13555.00	90.98	271.23	9243.95	4568.43	-3084.79	-4563.59	499381.01	634547.71	5508.38	235.94	
13650.00	90.77	271.03	9242.50	4663.40	-3082.92	-4658.56	499382.88	634452.74	5586.28	236.50	
13745.00	90.77	271.03	9241.23	4758.37	-3081.21	-4753.54	499384.59	634357.76	5664.80	237.05	
13839.00	90.84	271.15	9239.91	4852.34	-3079.42	-4847.51	499386.38	634263.79	5742.92	237.57	
13934.00	90.98	271.05	9238.40	4947.31	-3077.60	-4942.48	499388.20	634168.82	5822.35	238.09	
14028.00	90.91	271.10	9236.85	5041.28	-3075.83	-5036.45	499389.97	634074.85	5901.41	238.59	
14123.00	90.98	271.06	9235.28	5136.24	-3074.04	-5131.42	499391.76	633979.88	5981.74	239.08	
14218.00	90.84	271.15	9233.77	5231.21	-3072.21	-5226.39	499393.59	633884.91	6062.48	239.55	
14313.00	90.91	271.09	9232.32	5326.18	-3070.35	-5321.36	499395.45	633789.94	6143.61	240.02	
14407.00	91.05	270.66	9230.71	5420.15	-3068.92	-5415.34	499396.88	633695.96	6224.48	240.46	
14502.00	90.84	268.95	9229.15	5515.13	-3069.24	-5510.32	499396.56	633600.98	6307.45	240.88	
14597.00	91.40	269.11	9227.29	5610.10	-3070.85	-5605.29	499394.95	633506.01	6391.35	241.28	
14691.00	92.10	269.31	9224.42	5704.05	-3072.15	-5699.23	499393.65	633412.07	6474.52	241.67	
14786.00	92.59	269.51	9220.53	5798.97	-3073.12	-5794.15	499392.68	633317.15	6558.68	242.06	
14881.00	93.01	269.24	9215.89	5893.85	-3074.16	-5889.03	499391.64	633222.27	6643.13	242.43	
14975.00	92.45	269.43	9211.41	5987.74	-3075.25	-5982.92	499390.55	633128.38	6726.99	242.80	
15069.00	92.38	269.32	9207.45	6081.65	-3076.27	-6076.83	499389.53	633034.47	6811.11	243.15	
15164.00	92.45	269.11	9203.45	6176.56	-3077.57	-6171.73	499388.23	632939.57	6896.50	243.50	
15259.00	92.45	269.27	9199.39	6271.47	-3078.91	-6266.64	499386.89	632844.66	6982.15	243.83	
15354.00	92.31	269.35	9195.44	6366.38	-3080.06	-6361.55	499385.74	632749.75	7067.96	244.17	
15448.00	92.52	269.20	9191.48	6460.29	-3081.25	-6455.46	499384.55	632655.84	7153.11	244.48	
15542.00	92.59	269.33	9187.29	6554.19	-3082.45	-6549.36	499383.35	632561.94	7238.48	244.80	
15636.00	92.59	269.51	9183.04	6648.09	-3083.40	-6643.26	499382.40	632468.04	7323.95	245.10	
15730.00	92.45	269.09	9178.91	6741.99	-3084.55	-6737.16	499381.25	632374.14	7409.70	245.40	
15825.00	92.94	269.43	9174.44	6836.88	-3085.77	-6832.04	499380.03	632279.26	7496.59	245.69	
15920.00	92.66	269.78	9169.80	6931.77	-3086.43	-6926.93	499379.37	632184.37	7583.43	245.98	
16014.00	92.52	269.36	9165.56	7025.67	-3087.13	-7020.83	499378.67	632090.47	7669.58	246.26	
16109.00	92.17	269.29	9161.67	7120.58	-3088.25	-7115.74	499377.55	631995.56	7757.00	246.54	
16204.00	91.26	269.36	9158.83	7215.54	-3089.37	-7210.69	499376.43	631900.61	7844.63	246.81	
16298.00	92.38	269.47	9155.84	7309.48	-3090.33	-7304.64	499375.47	631806.66	7931.45	247.07	
16393.00	91.19	269.09	9152.88	7404.43	-3091.52	-7399.58	499374.28	631711.72	8019.44	247.32	
16489.00	92.38	269.12	9149.89	7500.37	-3093.02	-7495.52	499372.78	631615.78	8108.62	247.58	
16583.00	92.03	269.02	9146.27	7594.29	-3094.55	-7589.44	499371.25	631521.86	8196.09	247.82	
16678.00	91.61	270.66	9143.26	7689.24	-3094.81	-7684.39	499370.99	631426.91	8284.18	248.06	
16773.00	92.03	270.89	9140.24	7784.18	-3093.53	-7779.33	499372.27	631331.97	8371.85	248.31	
16867.00	91.89	270.80	9137.02	7878.11	-3092.14	-7873.27	499373.66	631238.03	8458.70	248.56	
16960.00	91.83	271.06	9134.01	7971.05	-3090.63	-7966.21	499375.17	631145.09	8544.73	248.80	
17055.00	92.66	271.15	9130.28	8065.96	-3088.80	-8061.11	499377.00	631050.19	8632.63	249.03	
17149.00	91.47	270.24	9126.90	8159.88	-3087.66	-8155.04	499378.14	630956.26	8720.00	249.26	
17243.00	92.45	270.27	9123.68	8253.83	-3087.24	-8248.99	499378.56	630862.31	8807.77	249.48	
17333.00	91.47	270.23	9120.60	8343.77	-3086.85	-8338.93	499378.95	630772.37	8891.93	249.69	
17423.00	91.12	270.30	9118.57	8433.75	-3086.44	-8428.91	499379.36	630682.39	8976.22	249.89	
17514.00	90.77	270.35	9117.07	8524.73	-3085.92	-8519.89	499379.88	630591.41	9061.54	250.09	
17606.00	90.63	270.45	9115.95	8616.72	-3085.28	-8611.88	499380.52	630499.42	9147.87	250.29	
17697.00	90.91	270.27	9114.72	8707.71	-3084.71	-8702.87	499381.09	630408.43	9233.39	250.48	
17790.00	90.91	270.10	9113.25	8800.70	-3084.41	-8795.86	499381.39	630315.44	9320.98	250.68	
17881.00	91.40	270.28	9111.41	8891.68	-3084.10	-8886.84	499381.70	630224.46	9406.79	250.86	
17972.00	91.12	270.28	9109.41	8982.65	-3083.66	-8977.82	499382.14	630133.48	9492.64	251.04	
18064.00	90.35	269.96	9108.23	9074.64	-3083.47	-9069.81	499382.33	630041.49	9579.63	251.22	
18155.00	90.70	270.22	9107.40	9165.64	-3083.32	-9160.81	499382.48	629950.49	9665.78	251.40	
18247.00	90.42	270.07	9106.50	9257.63	-3083.09	-9252.80	499382.71	629858.50	9752.94	251.57	
18339.00	90.49	269.85	9105.77	9349.63	-3083.16	-9344.80	499382.64	629766.50	9840.28	251.74	
18432.00	91.05	269.99	9104.52	9442.62	-3083.29	-9437.79	499382.51	629673.51	9928.67	251.91	
18524.00	90.28	270.01	9103.45	9534.62	-3083.29	-9529.78	499382.51	629581.52	10016.16	252.07	
18616.00	90.56	270.15	9102.77	9626.61	-3083.16	-9621.78	499382.64	629489.52	10103.69	252.23	
18710.00	90.42	269.93	9101.97	9720.61	-3083.09	-9715.78	499382.71	629395.52	10193.22	252.39	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
18805.00	90.28	270.00	9101.39	9815.61	-3083.15	-9810.78	499382.65	629300.52	10283.83	252.55	
18899.00	90.63	270.10	9100.64	9909.60	-3083.07	-9904.77	499382.73	629206.53	10373.52	252.71	
18993.00	90.91	270.09	9099.38	10003.59	-3082.91	-9998.76	499382.89	629112.54	10463.25	252.86	
19087.00	90.91	269.91	9097.89	10097.58	-3082.91	-10092.75	499382.89	629018.55	10553.10	253.01	
19182.00	91.19	270.25	9096.15	10192.57	-3082.78	-10187.74	499383.02	628923.56	10643.94	253.16	
19277.00	91.75	270.72	9093.71	10287.53	-3081.97	-10282.70	499383.83	628828.60	10734.64	253.32	
19370.00	91.75	270.55	9090.87	10380.48	-3080.94	-10375.65	499384.86	628735.65	10823.42	253.46	
19465.00	91.05	269.84	9088.55	10475.45	-3080.62	-10470.62	499385.18	628640.68	10914.40	253.61	
19560.00	90.98	270.08	9086.87	10570.43	-3080.69	-10565.61	499385.11	628545.69	11005.57	253.74	
19682.00	92.47	269.27	9083.19	10692.37	-3081.38	-10687.54	499384.42	628423.76	11122.88	253.92	
19782.00	90.37	268.81	9080.72	10792.32	-3083.05	-10787.49	499382.75	628323.81	11219.41	254.05	
19877.00	91.42	268.72	9079.23	10887.29	-3085.10	-10882.46	499380.70	628228.84	11311.31	254.17	
19970.00	91.17	268.26	9077.13	10980.24	-3087.55	-10975.40	499378.25	628135.90	11401.42	254.29	
20065.00	91.30	269.42	9075.08	11075.20	-3089.47	-11070.36	499376.33	628040.94	11493.38	254.41	
20160.00	91.67	270.12	9072.62	11170.17	-3089.86	-11165.33	499375.94	627945.97	11584.98	254.53	
20254.00	91.79	270.32	9069.78	11264.12	-3089.49	-11259.28	499376.31	627852.02	11675.46	254.66	
20348.00	91.79	270.87	9066.85	11358.07	-3088.52	-11353.23	499377.28	627758.07	11765.83	254.78	
20442.00	91.73	271.34	9063.96	11452.00	-3086.71	-11447.17	499379.09	627664.13	11856.03	254.91	
20536.00	91.79	271.25	9061.07	11545.93	-3084.58	-11541.10	499381.22	627570.20	11946.20	255.04	
20631.00	91.85	271.02	9058.05	11640.86	-3082.70	-11636.03	499383.10	627475.27	12037.46	255.16	
20725.00	91.60	270.01	9055.22	11734.81	-3081.86	-11729.99	499383.94	627381.31	12128.08	255.28	
20819.00	91.79	269.78	9052.44	11828.77	-3082.03	-11823.94	499383.77	627287.36	12219.03	255.39	
20915.00	91.85	269.31	9049.40	11924.72	-3082.79	-11919.89	499383.01	627191.41	12312.09	255.50	
21009.00	91.73	268.90	9046.46	12018.67	-3084.26	-12013.84	499381.54	627097.46	12403.42	255.60	
21103.00	91.67	268.23	9043.67	12112.60	-3086.61	-12107.76	499379.19	627003.54	12495.00	255.70	
21197.00	91.91	267.00	9040.73	12206.47	-3090.52	-12201.63	499375.28	626909.67	12586.95	255.79	
21292.00	91.11	266.72	9038.23	12301.31	-3095.72	-12296.46	499370.08	626814.84	12680.16	255.87	
21385.00	91.17	267.17	9036.38	12394.16	-3100.68	-12389.31	499365.12	626721.99	12771.42	255.95	
21480.00	91.17	268.11	9034.44	12489.07	-3104.59	-12484.21	499361.21	626627.09	12864.44	256.03	
21574.00	91.23	269.03	9032.47	12583.02	-3106.94	-12578.16	499358.86	626533.14	12956.20	256.13	
21669.00	90.49	269.44	9031.05	12678.00	-3108.20	-12673.14	499357.60	626438.16	13048.73	256.22	
21762.00	90.74	270.02	9030.05	12771.00	-3108.64	-12766.13	499357.16	626345.17	13139.17	256.31	
21856.00	90.80	270.88	9028.78	12864.98	-3107.90	-12860.12	499357.90	626251.18	13230.33	256.41	
21951.00	90.86	270.96	9027.41	12959.96	-3106.38	-12955.09	499359.42	626156.21	13322.31	256.52	
22046.00	90.37	271.64	9026.39	13054.92	-3104.22	-13050.06	499361.58	626061.24	13414.19	256.62	
22141.00	90.18	271.50	9025.93	13149.88	-3101.62	-13145.03	499364.18	625966.27	13505.99	256.72	
22236.00	90.62	271.16	9025.27	13244.85	-3099.42	-13240.00	499366.38	625871.30	13597.94	256.82	
22331.00	90.68	271.44	9024.19	13339.82	-3097.26	-13334.97	499368.54	625776.33	13689.94	256.92	
22425.00	90.25	270.87	9023.43	13433.79	-3095.37	-13428.94	499370.43	625682.36	13781.07	257.02	
22519.00	91.48	270.75	9022.01	13527.77	-3094.04	-13522.92	499371.76	625588.38	13872.37	257.11	
22613.00	90.93	269.73	9020.03	13621.74	-3093.64	-13616.90	499372.16	625494.40	13963.90	257.20	
22707.00	90.80	269.15	9018.61	13715.73	-3094.56	-13710.88	499371.24	625400.42	14055.77	257.28	
22802.00	91.23	268.73	9016.93	13810.70	-3096.32	-13805.85	499369.48	625305.45	14148.81	257.36	
22896.00	92.12	268.75	9014.18	13904.64	-3098.39	-13899.79	499367.41	625211.51	14240.93	257.43	
22990.00	90.49	267.86	9012.04	13998.57	-3101.17	-13993.72	499364.63	625117.58	14333.23	257.50	
23085.00	91.67	268.95	9010.25	14093.52	-3103.81	-14088.66	499361.99	625022.64	14426.50	257.58	
23179.00	92.28	270.79	9007.01	14187.46	-3104.02	-14182.60	499361.78	624928.70	14518.30	257.65	
23273.00	90.80	270.69	9004.49	14281.41	-3102.81	-14276.56	499362.99	624834.74	14609.84	257.74	
23303.00	91.91	271.31	9003.78	14311.40	-3102.29	-14306.54	499363.51	624804.76	14639.04	257.77	Last WFT SVY
23332.00	91.91	271.31	9002.81	14340.37	-3101.62	-14335.52	499364.18	624775.78	14667.22	257.79	PTB
Formation Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	TVD (MSL) (US ft)	Northing (US ft)	Easting (US ft)	Name	Comment	
151.00	0.07	354.86	151.00	0.09	-0.01	-3040.00	502465.89	639111.29	Rustler		
482.11	0.70	261.43	482.00	0.88	-8.00	-2709.00	502466.68	639103.30	Salado		
675.12	0.71	127.59	675.00	-0.13	-7.47	-2516.00	502465.67	639103.83	Top of Salt		
3333.42	24.36	193.17	3273.00	-405.45	-105.17	82.00	502060.35	639006.13	Base Salt		

5D Survey Report

Formation Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	TVD (MSL) (US ft)	Northing (US ft)	Easting (US ft)	Name	Comment
3611.28	23.94	193.84	3527.00	-515.10	-130.93	336.00	501950.70	638980.37	Delaware/La mar	
3659.39	23.81	194.19	3571.00	-533.99	-135.65	380.00	501931.81	638975.65	Bell Canyon	
4635.50	25.29	192.74	4455.00	-937.43	-227.22	1264.00	501528.37	638884.08	Cherry Canyon	
4863.71	25.50	193.05	4661.00	-1033.23	-248.79	1470.00	501432.57	638862.51	Manzanita Marker	
6103.47	25.69	195.76	5779.00	-1552.94	-378.24	2588.00	500912.86	638733.06	Brushy Canyon Ss.	
7548.87	24.05	191.80	7098.00	-2125.03	-525.85	3907.00	500340.77	638585.45	Basal Brushy Canyon Ss.	
7851.30	24.37	195.18	7373.00	-2247.50	-554.63	4182.00	500218.30	638556.67	Bone Spring Lm.	
7909.54	24.59	195.16	7426.00	-2270.78	-560.94	4235.00	500195.02	638550.36	Avalon Ss.	
8142.84	22.71	193.43	7639.00	-2362.72	-585.45	4448.00	500103.08	638525.85	Upper Avalon Carb.	
8231.50	22.47	191.84	7721.00	-2395.61	-592.83	4530.00	500070.19	638518.47	Upper Avalon Sh.	
8318.50	24.44	190.30	7801.00	-2429.15	-599.38	4610.00	500036.65	638511.92	Lw. Avalon Carb.	
8497.08	27.13	187.76	7960.00	-2509.44	-611.71	4769.00	499956.36	638499.59	Lw. Avalon Sh.	
8706.79	23.30	193.30	8151.00	-2594.36	-627.95	4960.00	499871.44	638483.35	Bone Spring Carb.	
8958.49	21.28	193.10	8384.00	-2686.99	-649.77	5193.00	499778.81	638461.53	First Bone Spring Ss.	
9387.46	28.18	197.97	8771.00	-2863.00	-705.28	5580.00	499602.80	638406.02	Second Bone Spring Carb.	
10150.15	78.01	265.24	9281.00	-3054.37	-1160.64	6090.00	499411.43	637950.66	Second Bone Spring A Ss.	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other				5. Lease Serial No. NMNM06808	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____				6. If Indian, Allottee or Tribe Name	
2. Name of Operator XTO PERMIAN OPERATING LLC Contact: TRACIE J CHERRY E-Mail: tracie_cherry@xtoenergy.com				7. Unit or CA Agreement Name and No. NMNM70965X	
3. Address 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707			3a. Phone No. (include area code) Ph: 432-221-7379		8. Lease Name and Well No. JAMES RANCH UNIT D11 BS2A-7W 212H
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWNE 1542FNL 1732FEL At top prod interval reported below NESW 670FSL 2176FWL At total depth SWSW 655FSL 2FWL				9. API Well No. 30-015-45396	
14. Date Spudded 07/28/2019				15. Date T.D. Reached 09/07/2019	
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/30/2020				17. Elevations (DF, KB, RT, GL)* 3166 GL	
18. Total Depth: MD 23332 TVD 9003		19. Plug Back T.D.: MD 23241 TVD 9005		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RCBL				22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8.750									
24.000	18.625 J55	87.5		532		2270	538	0	
17.500	13.375 HCL80	68.0		3440		3500	1109	0	
12.250	9.625 HCL80	40.0		7530	3577	3250	1036	0	
8.500	5.500 CYP110	20.0		23330		3255	835	3300	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9048	9048						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 2ND BONE SPRING	9665	23172	10435 TO 23172		1496	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10435 TO 23172	FRAC USING 643,241 TOTAL BBLs FLUID, 31,600,493# PROPANT ACROSS 66 STAGES

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/25/2020	07/23/2020	24	→	2054.0	2168.0	3254.0	36.0		GAS LIFT
Choke Size	Tbg. Press. Flwg. 297 SI	Csg. Press. 0.0	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio 1056	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #524670 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers
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Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
DELAWARE	3631	3741	SANDSTONE O/G/W	RUSTLER	177
CHERRY CANYON	4872	6375	SANDSTONE O/G/W	SALADO	499
BRUSHY CANYON	6375	7383	SANDSTONE O/G/W	B/SALT	3341
BONE SPRING	7383	7434	SANDSTONE O/G/W	DELAWARE	3631
BONE SPRING 1	8321	8885	SANDSTONE O/G/W	BELL CANYON	3741
BONE SPRING 2 LIME	8885	9013	LIMESTONE O/G/W	CHERRY CANYON	4872
BONE SPRING 2	9013		SANDSTONE O/G/W BTM NOT REACHED	BRUSHY CANYON	6375
				BONE SPRING	7862

32. Additional remarks (include plugging procedure):
 KOP = 9382

 Hole size for production casing is a tapered hole
 8 3/4" surface to 10,481
 8-1/2" 10,481 to 23,332' (TD)

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):
Electronic Submission #524670 Verified by the BLM Well Information System.
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad

Name (<i>please print</i>) <u>TRACIE J CHERRY</u>	Title <u>REGULATORY COORDINATOR</u>
Signature _____ (Electronic Submission)	Date <u>08/07/2020</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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