

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

OCD – REC'D 6/29/2020

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 XTO Permian Operation LLC 6401 Holiday Hill Rd Bldg 4 Midland, TX 79707		² OGRID Number 373075
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30 - 0 15-45399	⁵ Pool Name WC G-07 S223021G; Bone Spring	⁶ Pool Code 97905
⁷ Property Code 32284	⁸ Property Name James Ranch Unit DI1 BS2A-7W	⁹ Well Number 212H

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
G	21	22S	30E		1542	North	1732	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4485sx	19	22S	30E		655	South	2	West	Eddy

¹² Lse Code F	¹³ Producing Method Code	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
	XTO Permian Midstream	O
	XTO Permian Midstream	G

IV. Well Completion Data

²¹ Spud Date 07/28/20	²² Ready Date 04/30/20	²³ TD 23,332' MD / 9003' TVD	²⁴ PBTD 23,241' MD / 9004' TVD	²⁵ Perforations 10,435'-23,172' MD 9290'-9007' TVD	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement	
17-1/2"	13-3/8", J55, 54.5#	463'		995sx	
12-1/4"	9-5/8" HCP110, 40#	3551'		1655sx	
8-3/4"	5-1/2", CYP110 20#	23,212'		4485sx	
	2-7/8", J-55, tbg	9048'			

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: 	OIL CONSERVATION DIVISION
Printed name: Tracie J. Cherry	Approved by: 
Title: Regulatory Coordinator	Title:
E-mail Address: tracie_cherry@xtoenergy.com	Approval Date: Review highlighted errors/please do not submit 3160-5 Sundry Notices with C-104 packets.
Date: 06/29/20	Phone: 432-221-7379
RT EXPIRED: 7/30/2020	
Rec'd: C-104 NW 8/7/2020	

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

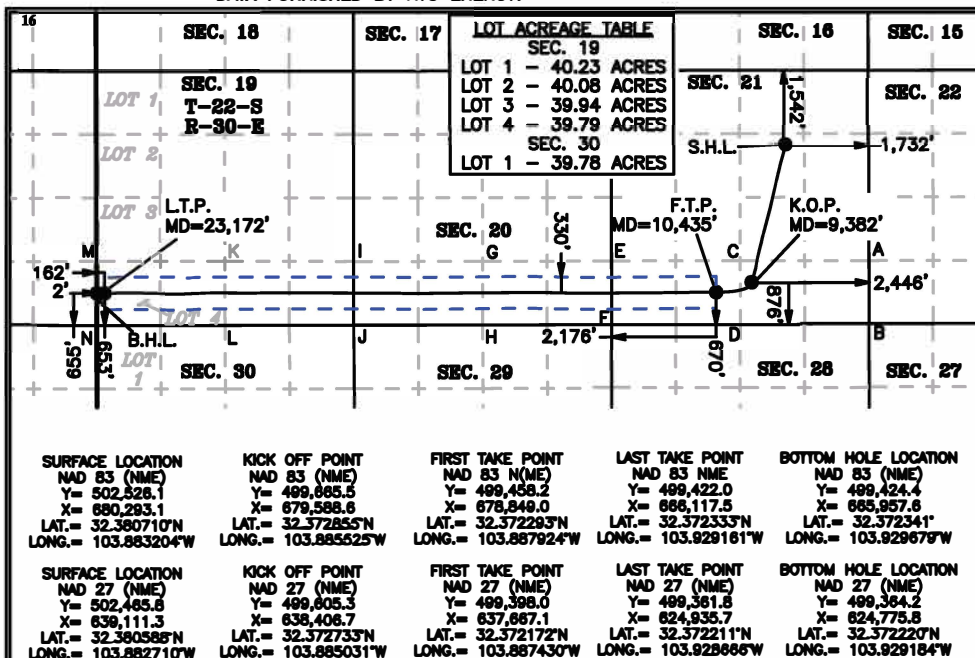
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	22 S	30 E		1,542	NORTH	1,732	EAST	EDDY

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 # 30-015-45398								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: James Ranch Unit D11 BS2A-7W			Well Number 212H		

Kick Off Point (KOP)

UL O	Section 21	Township 22S	Range 30E	Lot	Feet 876	From N/S S	Feet 2446	From E/W E	County Eddy
Latitude 32.372855 N					Longitude 103.885525 W				NAD 83

First Take Point (FTP)

UL N	Section 21	Township 22S	Range 30E	Lot	Feet 670	From N/S S	Feet 2176	From E/W E	County Eddy
Latitude 32.372293 N					Longitude 103.887924 W				NAD 83

Last Take Point (LTP)

UL	Section 19	Township 22S	Range 30E	Lot 3	Feet 653	From N/S S	Feet 2	From E/W W	County Eddy
Latitude 32.372333 N					Longitude 103.929161 W				NAD 83

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
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

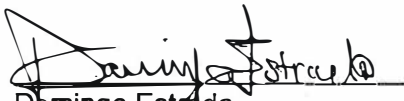
Attention: Manny Garcia

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:

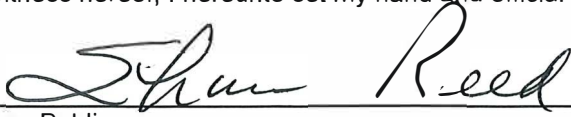
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Domingo Estrada	212H	155 MD	7/27/2019	Measurement
MWD Ops. Coordinator		23,303 MD	9/3/2019	While Drilling

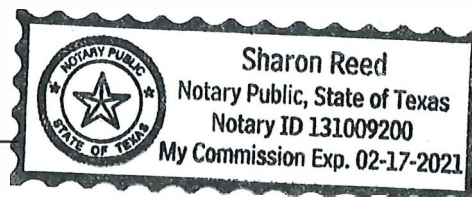
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


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 Inclination: 0.00° Azimuth: 0.00° 25.00US ft				
Survey Name:Definitive Survey				
Date: 05/Feb/2019		Survey Tool: See Survey Tool Ranges below.	Comment:	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 MANAGEMENT

RECEIVED

Carlsbad Field Office

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or re-drill an abandoned well. Use form 3160-3 (APR 2014) for such proposals.

5. Lease Serial No.
NMNM06808

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000558X8. Well Name and No.
JAMES RANCH UNIT D11 BS2A-7W 212H9. API Well No.
30-015-45396-00-X110. Field and Pool or Exploratory Area
WILDCAT11. County or Parish, State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: MELANIE COLLINS

E-Mail: melanie_collins@xtoenergy.com

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-218-3709

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T22S R30E SWNE 1542FNL 1732FEL
32.380711 N Lat, 103.883202 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | Well Spud |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

07/28/2019 Spud well 09:30 hrs. Drill 24" hole.

07/29/2019 TD 24" hole 536. Run 18-5/8 87.5# J-55 BTC csg to 532. Cmt w/ 2270 sx Class C Lead
cmt. Cmt to surf. WOC.

07/31/2019 Test csg to 1260psi, bled off to 1237psi. Good.

08/01/2019 Drill 17-1/2" hole.

08/05/2019-08/06/2019 TD 17-1/2 hole 3,443. Run 13-3/8 68# HCL-80 BTC csg to 3,440. Cmt w/2530 sx
Class C Lead, 970 sx Class C Tail. Cmt to surf. WOC.GC 2/17/20
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #493660 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/03/2019 (20PP0516SE)

Name (Printed/Typed) MELANIE COLLINS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/25/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Accepted for Record

DEC 05 2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Jonathon Shepard
Carlsbad Field Office

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.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

KS 2-18-20

Additional data for EC transaction #493660 that would not fit on the form

32. Additional remarks, continued

08/08/2019 Test csg to 1500psi 30 mins. Good. Drill 12-1/4 hole.

08/11/2019 TD 12-1/4 hole 7,533.

08/12/2019 Run 9-5/8 HCL-80 40# BTC csg to 7529.97. DV tool @3576.8.

08/13/2019 Stage 1 cmt w/ 960 sx Class C Lead, 500 sx Tail cmt. Stage 2 cmt w/ 1690 sx Class C Lead, 100 sx Class C Tail cmt. Cmt to surf. WOC.

08/14/2019 Test csg to 1500psid 30 mins. Good.

08/16/2019 Tag TOC @ 7425. Drill 8-3/4 hole.

08/21/2019 TD 8-3/4 hole 10,481.

08/22/2019 Drill 8-1/2 hole.

09/04/2019 TD 8-12 hole 23,332.

09/05/2019-09/07/2019 Run 5-1/2 CYP-110 20# GBCE csg to 23,330. Cmt w/3255 sx Primary Neocem TM cmt. No return.

09/08/2019 Release rig 18:00 hrs.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM06808

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM70965X8. Well Name and No.
JAMES RANCH UNIT D11 BS2A 7W 212H9. API Well No.
30-015-4539610. Field and Pool or Exploratory Area
WC G-07 S223021G;BONE SPR11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: TRACIE J CHERRY

E-Mail: tracie_cherry@xtoenergy.com

3a. Address

6401 HOLIDAY HILL RD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-221-7379

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T22S R30E Mer NMP SWNE 1542FNL 1732FEL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Start-up	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

XTO Permian Operating, LLC respectfully submits this sundry to completion operations on the referenced well.

01/12/20

Run RCBL 10,158 to surface.

01/26/20

Test csg to 7450 psi, hold and chart for 30 min (good). Walk pressure up, open toe sleeve @ 23,172'.

02/09/20 ? 03/20/20

Perf 23,138' - 10,435', 4 SPF, 1496 holes. Frac interval 10,435' - 23,172' using total 643,241 bbls

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #520500 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) TRACIE J CHERRY

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 06/29/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____	

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.

(Instructions on page 2)

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

Additional data for EC transaction #520500 that would not fit on the form

32. Additional remarks, continued

fluid, 31,600,493# propant across 66 stages.

04/08/20 ? 04/11/20

RU coiled tbg. Drill out frac plugs

04/15/20

Set 10K pkr @9048?

04/28/20

RIH w/2-7/8' L80 tbg, land at 9048'

04/30/20

Break disc. WO flow back

06/30/20

Start flowback