

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

NMOCD-Rec'd 10/01/2020

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 30-015-45399	² Pool Code 97905	³ Pool Name WC G-07 S223021G; Bone Spring
⁴ Property Code 3525538	⁵ Property Name JAMES RANCH UNIT DI 1 BS2A-7E	
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁶ Well Number 211H
		⁹ Elevation 3,166'

¹⁰ Surface Location

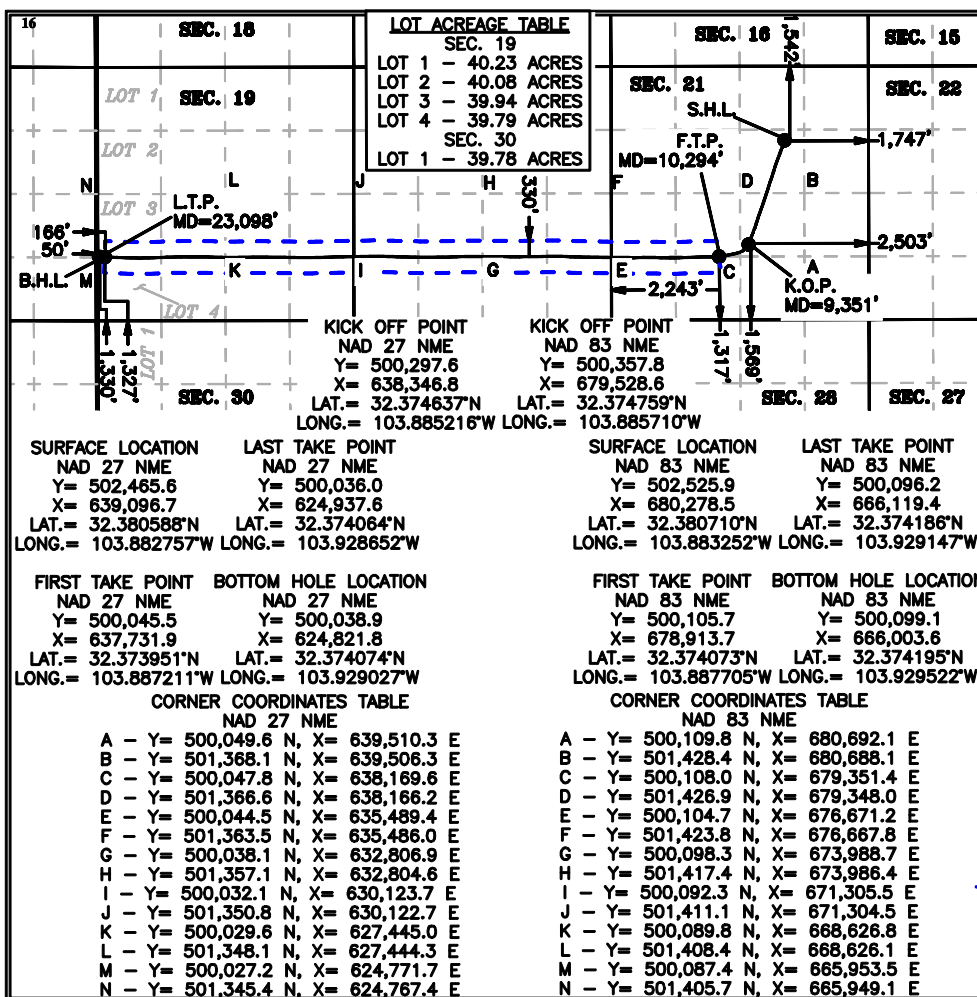
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	22 S	30 E		1,542	NORTH	1,747	EAST	EDDY

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
3	19	22 S	30 E		1,330	SOUTH	50	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



JC

2017050646

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



I Andrew Meadville certify that I am employed by VES Survey International. That I did on the day(s) of 06/20/19 through 06/20/19 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 3,460.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy for the James Ranch Unit DI 1 BS2A-7E Well # 211H API # 30-015-45399 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

A handwritten signature in blue ink, appearing to read "A R M", is written over a horizontal line.

Andrew Meadville
Service Technician
VES Survey International



Company: XTO ENERGY
Lease/Well: JAMES RANCH UNIT DI 1 BS2A-7E/211H

Rig Name: NORAM 25
State/County: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.38102, Longitude: -103.88351
Grid North = True North -0.24 degs (NAD 27)
Grid Correction Applied = -0.24 degs



Depth Reference : RKB 25 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: e-line gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/24/2019 / 12:01

VES Survey International

Midland, TX

432-563-5444

Surveyor: Andrew Meadville

James Ranch Unit DI 1 BS2A-7E 211H / 30-015-45399

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.17	267.04	100.00	-0.01	-0.15	-0.01	0.15	267.04	0.17
200.00	0.24	209.64	200.00	-0.20	-0.41	-0.20	0.45	243.96	0.21
300.00	0.16	155.58	300.00	-0.51	-0.45	-0.51	0.68	221.82	0.20
400.00	0.22	236.00	400.00	-0.74	-0.56	-0.74	0.93	216.92	0.25
500.00	0.54	207.93	500.00	-1.27	-0.94	-1.27	1.57	216.52	0.36
600.00	1.05	215.40	599.99	-2.43	-1.69	-2.43	2.96	214.80	0.52
700.00	2.66	208.71	699.93	-5.21	-3.34	-5.21	6.19	212.61	1.62
800.00	3.26	202.35	799.80	-9.88	-5.53	-9.88	11.32	209.25	0.68
900.00	2.80	213.57	899.66	-14.54	-7.96	-14.54	16.58	208.71	0.74
1000.00	2.14	233.20	999.57	-17.69	-10.81	-17.69	20.73	211.42	1.07
1100.00	1.32	187.83	1099.52	-19.95	-12.46	-19.95	23.52	211.98	1.53
1200.00	0.91	162.17	1199.51	-21.85	-12.37	-21.85	25.11	209.52	0.64
1300.00	0.62	144.23	1299.50	-23.04	-11.81	-23.04	25.89	207.15	0.37
1400.00	0.35	41.64	1399.49	-23.25	-11.30	-23.25	25.85	205.91	0.77
1500.00	0.35	74.22	1499.49	-22.94	-10.80	-22.94	25.36	205.21	0.20
1600.00	0.31	86.28	1599.49	-22.84	-10.24	-22.84	25.03	204.14	0.08

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1700.00	0.30	101.81	1699.49	-22.88	-9.72	-22.88	24.86	203.01	0.08
1800.00	0.31	87.76	1799.49	-22.92	-9.19	-22.92	24.70	201.85	0.07
1900.00	0.41	91.93	1899.49	-22.92	-8.57	-22.92	24.47	200.49	0.11
2000.00	0.43	80.60	1999.48	-22.87	-7.84	-22.87	24.18	198.92	0.08
2100.00	0.35	84.67	2099.48	-22.79	-7.17	-22.79	23.89	197.46	0.08
2200.00	0.46	83.30	2199.48	-22.71	-6.46	-22.71	23.61	195.89	0.11
2300.00	0.41	70.61	2299.48	-22.54	-5.73	-22.54	23.26	194.25	0.11
2400.00	0.84	58.11	2399.47	-22.04	-4.76	-22.04	22.55	192.20	0.45
2500.00	1.18	91.15	2499.45	-21.67	-3.11	-21.67	21.89	188.16	0.66
2600.00	2.34	155.39	2599.41	-23.55	-1.22	-23.55	23.58	182.97	2.12
2700.00	2.11	161.59	2699.34	-27.15	0.21	-27.15	27.15	179.55	0.33
2800.00	2.39	182.69	2799.26	-30.98	0.70	-30.98	30.99	178.71	0.87
2900.00	2.70	186.57	2899.16	-35.41	0.33	-35.41	35.41	179.47	0.36
3000.00	3.25	192.36	2999.03	-40.53	-0.55	-40.53	40.53	180.77	0.63
3100.00	4.37	200.50	3098.81	-46.87	-2.49	-46.87	46.94	183.04	1.24
3200.00	5.13	202.33	3198.46	-54.58	-5.53	-54.58	54.86	185.78	0.77
3300.00	5.14	207.05	3298.06	-62.71	-9.26	-62.71	63.39	188.40	0.42
3400.00	4.96	208.92	3397.67	-70.48	-13.39	-70.48	71.74	190.76	0.24
3460.00	4.90	206.73	3457.45	-75.03	-15.80	-75.03	76.68	191.89	0.33



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: August 12, 2019

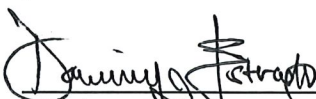
Attention: Manuel Garcia

Re: XTO Energy
Well: James Ranch Unit DI 1 BS2A-7E #211H
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:

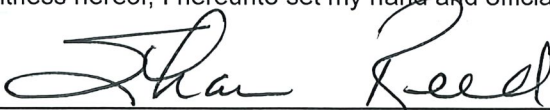
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Domingo Estrada	211H	3,607 MD	6/12/2019	Measurement
MWD Ops. Coordinator		23,214 MD	7/22/2019	While Drilling

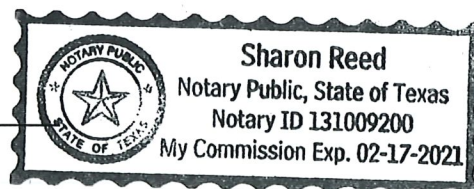
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Domingo Estrada
MWD Ops. Coordinator

On this, the 13th day of August, 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-7E #211H*
File number: *13783654*
Survey: *Definitive survey*

12 August 2019





James Ranch Unit DI 1 BS2A-7E #211H

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- 7E #211H	Position (Relative to Site Centre)			
	+N/-S: -0.20 US ft	Northing: 502465.60 US ft	Latitude: 32° 22' 50.12"	
	+E/-W: 13.90 US ft	Easting: 639096.70 US ft	Longitude: -103° 52' 57.93"	
	Elevation above MSL: 3166.00 US ft			
Comment:				
Well: James Ranch Unit DI 1 BS2A- 7E #211H	Type: Main well		UWI:	
	File Number: 13783654	Comment:		
	Closure Distance: 14479.7US ft		Closure Azimuth: 260.35°	
	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: 06/Jun/2019	Field Strength: 47923.0nT	Declination: 7.15°	Dip: 60.11°
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
VESSI GS2 V2	0.00	3460.00	GRYO Surveys - Vertical
MWD + IFR	3460.00	7957.00	Wft MWD+IFR_6
MWD + IFR	7957.00	9172.00	Wft MWD+IFR_7
MWD + IFR + MS	9172.00	13766.00	Wft MWD+IFR+MS_8
MWD + IFR + MS	13766.00	19150.00	Wft MWD+IFR+MS_9
MWD + IFR + MS	19150.00	23214.00	Wft MWD+IFR+MS_10

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
463.00	0.41	213.24	463.00	-1.00	-0.77	-2728.00	502464.60	639095.93	13 3/8 in
3561.00	6.27	201.43	3557.97	-84.00	-19.74	366.97	502381.60	639076.96	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
3460.00	4.90	206.73	3457.45	15.90	-75.01	-15.78	502390.59	639080.92	76.65	191.88	Tie On
3561.00	6.27	201.43	3557.97	19.87	-84.00	-19.74	502381.60	639076.96	86.28	193.22	9 5/8 in
3607.00	6.90	199.71	3603.67	21.73	-88.93	-21.59	502376.67	639075.11	91.52	193.64	First WFT SVY
3702.00	7.73	204.02	3697.89	26.27	-100.14	-26.11	502365.46	639070.59	103.49	194.61	
3796.00	8.21	203.96	3790.99	31.59	-112.05	-31.41	502353.55	639065.29	116.37	195.66	
3889.00	7.78	202.23	3883.08	36.68	-123.94	-36.49	502341.66	639060.21	129.20	196.40	
3984.00	9.71	206.40	3976.97	42.70	-137.07	-42.48	502328.53	639054.22	143.51	197.22	
4078.00	12.01	206.19	4069.28	50.57	-152.95	-50.33	502312.65	639046.37	161.02	198.21	
4173.00	13.26	206.36	4161.98	59.80	-171.58	-59.53	502294.02	639037.17	181.62	199.13	
4267.00	14.61	204.73	4253.21	69.57	-192.01	-69.27	502273.59	639027.43	204.13	199.84	
4361.00	15.76	200.35	4343.93	79.01	-214.75	-78.67	502250.85	639018.03	228.71	200.12	
4456.00	16.87	198.14	4435.11	87.83	-239.95	-87.45	502225.65	639009.25	255.39	200.02	
4551.00	17.33	197.88	4525.91	96.51	-266.51	-96.09	502199.09	639000.61	283.31	199.83	
4646.00	18.29	201.91	4616.36	106.46	-293.81	-105.99	502171.79	638990.71	312.35	199.84	
4740.00	19.69	202.06	4705.24	117.95	-322.17	-117.45	502143.43	638979.25	342.91	200.03	
4835.00	21.66	200.26	4794.12	130.08	-353.46	-129.53	502112.14	638967.17	376.44	200.13	
4930.00	23.82	199.52	4881.73	142.62	-387.99	-142.01	502077.61	638954.69	413.16	200.10	
5023.00	25.60	199.86	4966.21	155.78	-424.59	-155.11	502041.01	638941.59	452.04	200.07	
5118.00	25.85	200.19	5051.79	169.96	-463.33	-169.23	502002.27	638927.47	493.27	200.06	
5212.00	24.90	200.87	5136.72	184.14	-501.06	-183.36	501964.54	638913.34	533.55	200.10	
5307.00	25.47	196.65	5222.70	197.18	-539.32	-196.34	501926.28	638900.36	573.94	200.00	
5402.00	25.44	196.89	5308.48	209.02	-578.41	-208.12	501887.19	638888.58	614.71	199.79	
5498.00	25.46	197.37	5395.16	221.24	-617.83	-220.27	501847.77	638876.43	655.92	199.62	
5593.00	25.64	197.72	5480.87	233.65	-656.90	-232.62	501808.70	638864.08	696.87	199.50	
5687.00	26.00	197.31	5565.49	246.03	-695.94	-244.94	501769.66	638851.76	737.79	199.39	
5782.00	26.04	197.67	5650.86	258.62	-735.69	-257.46	501729.91	638839.24	779.44	199.29	
5876.00	25.73	198.51	5735.43	271.42	-774.70	-270.21	501690.90	638826.49	820.47	199.23	
5970.00	24.87	198.79	5820.41	284.33	-812.76	-283.05	501652.84	638813.65	860.64	199.20	
6065.00	22.74	199.50	5907.32	296.95	-848.99	-295.61	501616.61	638801.09	898.98	199.20	
6159.00	23.74	198.83	5993.70	309.18	-884.02	-307.79	501581.58	638788.91	936.07	199.20	
6254.00	24.69	197.63	6080.34	321.41	-921.03	-319.97	501544.57	638776.73	975.03	199.16	
6348.00	25.52	196.26	6165.46	333.09	-959.18	-331.58	501506.42	638765.12	1014.88	199.07	
6442.00	26.85	197.14	6249.81	345.08	-998.91	-343.51	501466.69	638753.19	1056.32	198.98	
6537.00	27.13	198.22	6334.46	358.24	-1039.98	-356.61	501425.62	638740.09	1099.43	198.93	
6631.00	24.89	198.69	6418.94	371.34	-1079.09	-369.65	501386.51	638727.05	1140.64	198.91	
6726.00	25.48	198.16	6504.90	384.18	-1117.44	-382.42	501348.16	638714.28	1181.07	198.89	
6820.00	27.68	197.99	6588.96	397.29	-1157.42	-395.47	501308.18	638701.23	1223.12	198.86	
6915.00	27.31	198.04	6673.23	410.92	-1199.13	-409.03	501266.47	638687.67	1266.97	198.83	
7009.00	27.22	198.88	6756.79	424.61	-1239.98	-422.67	501225.62	638674.03	1310.03	198.82	
7105.00	25.83	199.50	6842.68	438.76	-1280.47	-436.75	501185.13	638659.95	1352.90	198.83	
7199.00	25.49	198.54	6927.41	452.09	-1318.95	-450.02	501146.65	638646.68	1393.61	198.84	

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
22751.00	90.14	271.99	9138.92	13816.20	-2440.92	-13812.38	500024.68	625284.32	14026.40	259.98	
22845.00	90.77	272.08	9138.17	13910.13	-2437.59	-13906.32	500028.01	625190.38	14118.34	260.06	
22939.00	90.98	271.80	9136.74	14004.06	-2434.41	-14000.25	500031.19	625096.45	14210.33	260.14	
23034.00	91.89	271.83	9134.36	14098.97	-2431.40	-14095.17	500034.20	625001.53	14303.34	260.21	
23142.00	92.87	271.36	9129.87	14206.83	-2428.39	-14203.04	500037.21	624893.66	14409.14	260.30	Last WFT SVY
23214.00	92.87	271.36	9126.27	14278.72	-2426.69	-14274.93	500038.91	624821.77	14479.72	260.35	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	0.18	232.40	151.00	-0.06	-0.29	-3040.00	502465.54	639096.41	Rustler	
544.01	0.76	212.45	544.00	-1.70	-1.18	-2647.00	502463.90	639095.52	Salado	
3304.96	5.13	207.14	3303.00	-63.08	-9.45	112.00	502402.52	639087.25	Base Salt	
3529.85	5.84	202.80	3527.00	-80.95	-18.50	336.00	502384.65	639078.20	Delaware/La mar	
3577.13	6.49	200.79	3574.00	-85.67	-20.38	383.00	502379.93	639076.32	Bell Canyon	
4483.07	17.00	198.06	4461.00	-247.44	-89.90	1270.00	502218.16	639006.80	Cherry Canyon	
4689.94	18.94	201.98	4658.00	-306.82	-111.24	1467.00	502158.78	638985.46	Manzanita Marker	
5925.38	25.28	198.65	5780.00	-794.86	-276.98	2589.00	501670.74	638819.72	Brushy Canyon Ss.	
7384.94	24.39	200.42	7096.00	-1392.83	-476.37	3905.00	501072.77	638620.33	Basal Brushy Canyon Ss.	
7702.13	24.77	200.66	7384.00	-1518.20	-520.40	4193.00	500947.40	638576.30	Bone Spring Lm.	
7748.30	24.35	200.60	7426.00	-1536.16	-527.16	4235.00	500929.44	638569.54	Avalon Ss.	
7980.77	22.17	195.65	7639.00	-1624.66	-555.88	4448.00	500840.94	638540.82	Upper Avalon Carb.	
8064.69	21.74	196.37	7717.00	-1654.45	-564.26	4526.00	500811.15	638532.44	Upper Avalon Sh.	
8160.05	23.95	198.63	7805.00	-1689.46	-575.41	4614.00	500776.14	638521.29	Lw. Avalon Carb.	
8337.25	22.59	198.73	7966.00	-1759.31	-599.66	4775.00	500706.29	638497.04	Lw. Avalon Sh.	
8537.75	23.04	201.65	8152.00	-1830.06	-623.96	4961.00	500635.54	638472.74	Bone Spring Carb.	
8784.06	23.52	198.00	8376.00	-1926.08	-659.29	5185.00	500539.52	638437.41	First Bone Spring Ss.	
9318.72	24.89	197.81	8851.00	-2155.23	-745.38	5660.00	500310.37	638351.32	Second Bone Spring Carb.	
9700.89	40.21	237.13	9176.00	-2300.71	-874.29	5985.00	500164.89	638222.41	Second Bone Spring A Ss.	
9945.40	57.62	257.31	9341.00	-2360.08	-1041.80	6150.00	500105.52	638054.90	Second Bone Spring A/B Carb.	