

RECEIVED

District I
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District II
811 S. First St., Artesia, NM 88210
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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
DISTRICT IV-ARTESIA O.C.D.
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 30-015-45025	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 325590	⁵ Property Name PLU 15 TWIN WELLS RANCH	⁶ Well Number 901H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,530'

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
M	15	24 S	31 E		330	SOUTH	1,130	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	34	24 S	31 E		2,390	NORTH	317	WEST	EDDY

¹² Dedicated Acres 800	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY

	16 1,130' SEC. 16 SEC. 15 SEC. 22 SEC. 21 SEC. 27 SEC. 28 SEC. 33 SEC. 34 T24S R31E 17 330' 18 405' 19 421' 20 361' 21 315' 22 312' 23 312' 24 312' 25 312' 26 312' 27 312' 28 312' 29 312' 30 312' 31 312' 32 312' 33 312' 34 312' 35 312' 36 312' 37 312' 38 312' 39 312' 40 312' 41 312' 42 312' 43 312' 44 312' 45 312' 46 312' 47 312' 48 312' 49 312' 50 312' 51 312' 52 312' 53 312' 54 312' 55 312' 56 312' 57 312' 58 312' 59 312' 60 312' 61 312' 62 312' 63 312' 64 312' 65 312' 66 312' 67 312' 68 312' 69 312' 70 312' 71 312' 72 312' 73 312' 74 312' 75 312' 76 312' 77 312' 78 312' 79 312' 80 312' 81 312' 82 312' 83 312' 84 312' 85 312' 86 312' 87 312' 88 312' 89 312' 90 312' 91 312' 92 312' 93 312' 94 312' 95 312' 96 312' 97 312' 98 312' 99 312' 100 312'	17 330' 18 405' 19 421' 20 361' 21 315' 22 312' 23 312' 24 312' 25 312' 26 312' 27 312' 28 312' 29 312' 30 312' 31 312' 32 312' 33 312' 34 312' 35 312' 36 312' 37 312' 38 312' 39 312' 40 312' 41 312' 42 312' 43 312' 44 312' 45 312' 46 312' 47 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312' 43 312' 44 312' 45 312' 46 312'</
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NOV 25 2019

DISTRICT 7 - ARTESIA O.C.D.

Intent ☐ As Drilled ☒ XX

API # 30-015-45025		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 15 TWR	Well Number 901H

Kick Off Point (KOP)

UL M	Section 15	Township 24S	Range 31E	Lot	Feet 260	From N/S S	Feet 405	From E/W W	County EDDY
Latitude 32.210811					Longitude 103.772922			NAD 83	

First Take Point (FTP)

UL D	Section 22	Township 24S	Range 31E	Lot	Feet 421	From N/S N	Feet 361	From E/W W	County EDDY
Latitude 32.208937					Longitude 103.773065			NAD 83	

Last Take Point (LTP)

UL E	Section 34	Township 24S	Range 31E	Lot	Feet 2307	From N/S N	Feet 315	From E/W W	County EDDY
Latitude 32.174720					Longitude 103.773151			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

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

API # 30-015-45053		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 15 TWR	Well Number 102H

KZ 06/29/2018

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NOV 25 2019

A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC



Weatherford
STRICTLY ARTESIAO.C.D.

XTO
ENERGY

PLU 15 TWR 901H

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: PLU 15 Twin Wells Ranch	Units: US ft	North Reference: Grid	Convergence Angle: 0.30	
	Position:	Northing: 440924.90 US ft	Latitude: 32° 12' 39.47"	
		Easting: 674200.80 US ft	Longitude: -103° 46' 12.35"	
	Elevation above MSL: 3530.00 US ft			
Slot: PLU 15 TWR 901H	Position (Relative to Site Centre)			
	+N/-S: 30.00 US ft	Northing: 440894.90 US ft	Latitude: 32° 12' 39.18"	
	+E/-W: 0.20 US ft	Easting: 674201.00 US ft	Longitude: -103° 46' 12.35"	
	Elevation above MSL: 3530.00 US ft			
Well: PLU 15 TWR 901H	Type: Main well		UWI:	
	File Number:	Comment:		
	Closure Distance: 13370.8 US ft		Closure Azimuth: 183.10°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: -0.00 US ft	Az: 179.62°	

Drill floor: Survey Name: Definitive Survey

Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3556.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 07/May/2019

Survey Tool: See Survey
Tool Ranges below.

Comment:

Company:

Magnetic Model:

Model Name:

Date: 18/Jun/2019

Field Strength:
47741.8 nT

Declination: 6.90° **Dip:** 59.93°

bggm2018

Tie Point:

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

Survey Tool Ranges:

Name	Start MD (USFt)	End MD (USFt)	Source Survey
MWD	0.00	12233.00	MWD
MWD	12233.00	12634.00	WFT MWD_1
MWD	12634.00	13392.00	WFT MWD_2
MWD	13392.00	14955.00	WFT MWD_3

5D Survey Report

Survey Tool Ranges:											
Name		Start MD(usft)		End MD(usft)		Source Survey					
MWD		14955.00		22827.00		WFT MWD_4					
MWD		22827.00		24820.00		WFT MWD_5					
Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name		
10558.00	4.10	258.97	10512.28	6956.28	-52.59	-661.15	440842.31	673539.85	9 5/8 in		
Wellpath created using minimum curvature.											
Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-3556.00	-0.00	0.00	0.00	440894.90	674201.00	0.00	
169.00	0.80	15.00	168.99	-3387.01	-1.14	1.14	0.31	440896.04	674201.31	0.47	
285.00	0.70	69.00	284.99	-3271.01	-2.17	2.18	1.18	440897.08	674202.18	0.59	
378.00	2.40	70.10	377.95	-3178.05	-3.02	3.04	3.54	440897.94	674204.54	1.83	
504.00	2.00	63.20	503.86	-3052.14	-4.88	4.93	7.98	440899.83	674208.98	0.38	
599.00	1.50	29.00	598.81	-2957.19	-6.70	6.77	10.06	440901.67	674211.06	1.19	
693.00	1.60	79.20	692.78	-2863.22	-8.01	8.09	11.95	440902.99	674212.95	1.40	
787.00	1.10	58.50	786.76	-2769.24	-8.71	8.81	14.01	440903.71	674215.01	0.73	
833.00	1.30	78.20	832.75	-2723.25	-9.04	9.14	14.89	440904.04	674215.89	0.99	
912.00	1.20	102.20	911.73	-2644.27	-9.04	9.15	16.58	440904.05	674217.58	0.67	
975.00	0.60	280.90	974.73	-2581.27	-8.96	9.07	16.90	440903.97	674217.90	2.86	
1070.00	0.80	128.60	1069.72	-2486.28	-8.64	8.76	16.93	440903.66	674217.93	1.43	
1165.00	0.70	119.70	1164.71	-2391.29	-7.93	8.05	17.95	440902.95	674218.95	0.16	
1259.00	1.00	135.10	1258.70	-2297.30	-7.06	7.19	19.03	440902.09	674220.03	0.40	
1354.00	0.80	157.00	1353.69	-2202.31	-5.86	5.99	19.88	440900.89	674220.88	0.42	
1449.00	0.70	95.10	1448.69	-2107.31	-5.19	5.33	20.71	440900.23	674221.71	0.82	
1543.00	1.00	140.70	1542.68	-2013.32	-4.50	4.64	21.80	440899.54	674222.80	0.76	
1637.00	1.60	122.20	1636.65	-1919.35	-3.15	3.31	23.43	440898.21	674224.43	0.77	
1732.00	1.40	101.80	1731.62	-1824.38	-2.19	2.36	25.69	440897.26	674226.69	0.60	
1826.00	1.80	122.60	1825.58	-1730.42	-1.15	1.33	28.06	440896.23	674229.06	0.74	
1921.00	2.50	103.90	1920.52	-1635.48	0.18	0.03	31.33	440894.93	674232.33	1.03	
2016.00	2.20	108.00	2015.44	-1540.56	1.26	-1.03	35.07	440893.87	674236.07	0.36	
2110.00	2.70	115.00	2109.35	-1446.65	2.78	-2.52	38.80	440892.38	674239.80	0.62	
2205.00	2.40	130.00	2204.26	-1351.74	5.03	-4.75	42.35	440890.15	674243.35	0.77	
2299.00	1.40	98.70	2298.21	-1257.79	6.48	-6.18	44.99	440888.72	674245.99	1.50	
2394.00	1.00	256.30	2393.20	-1162.80	6.86	-6.56	45.33	440888.34	674246.33	2.48	
2488.00	1.40	296.20	2487.18	-1068.82	6.53	-6.24	43.51	440888.66	674244.51	0.96	
2583.00	1.90	285.10	2582.14	-973.86	5.59	-5.32	40.94	440889.58	674241.94	0.62	
2676.00	2.40	299.50	2675.08	-880.92	4.21	-3.96	37.76	440890.94	674238.76	0.79	
2771.00	3.50	287.50	2769.95	-786.05	2.33	-2.11	33.26	440892.79	674234.26	1.32	
2866.00	3.20	294.60	2864.79	-691.21	0.32	-0.13	28.09	440894.77	674229.09	0.54	
2960.00	2.70	298.10	2958.66	-597.34	-1.84	2.00	23.75	440896.90	674224.75	0.57	
3055.00	2.50	299.20	3053.57	-502.43	-3.93	4.07	19.97	440898.97	674220.97	0.22	
3149.00	2.00	294.00	3147.49	-408.51	-5.62	5.73	16.68	440900.63	674217.68	0.57	
3243.00	1.90	280.70	3241.44	-314.56	-6.60	6.69	13.65	440901.59	674214.65	0.49	
3337.00	2.10	274.90	3335.38	-220.62	-7.06	7.13	10.40	440902.03	674211.40	0.30	
3432.00	1.20	250.50	3430.34	-125.66	-6.89	6.94	7.73	440901.84	674208.73	1.18	
3526.00	1.40	273.50	3524.32	-31.68	-6.65	6.68	5.66	440901.58	674206.66	0.59	
3620.00	0.30	315.00	3618.31	62.31	-6.90	6.93	4.34	440901.83	674205.34	1.27	
3715.00	1.20	136.90	3713.30	157.30	-6.35	6.38	4.84	440901.28	674205.84	1.58	
3810.00	2.60	151.20	3808.25	252.25	-3.72	3.76	6.56	440898.66	674207.56	1.54	
3904.00	2.20	141.10	3902.17	346.17	-0.43	0.49	8.72	440895.39	674209.72	0.62	
3998.00	3.90	148.00	3996.03	440.03	3.70	-3.62	11.54	440891.28	674212.54	1.85	
4093.00	4.40	150.60	4090.78	534.78	9.64	-9.54	15.05	440885.36	674216.05	0.56	
4187.00	5.70	153.90	4184.41	628.41	17.00	-16.87	18.87	440878.03	674219.87	1.42	
4281.00	4.30	150.10	4278.05	722.05	24.27	-24.12	22.68	440870.78	674223.68	1.53	
4368.00	3.70	156.50	4364.84	808.84	29.69	-29.52	25.43	440865.38	674226.43	0.86	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US-ft)	N. Offset (US-ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
4462.00	1.90	198.40	4458.73	902.73	33.96	-33.78	26.14	440861.12	674227.14	2.78	
4557.00	2.60	247.70	4553.67	997.67	36.25	-36.10	23.65	440858.80	674224.65	2.09	
4651.00	4.20	279.40	4647.51	1091.51	36.46	-36.34	18.28	440858.56	674219.28	2.57	
4746.00	6.00	290.40	4742.13	1186.13	34.11	-34.04	10.20	440860.86	674211.20	2.15	
4840.00	6.40	293.90	4835.58	1279.58	30.21	-30.21	0.80	440864.69	674201.80	0.59	
4934.00	6.50	293.40	4928.99	1372.99	25.91	-25.97	-8.87	440868.93	674192.13	0.12	
5028.00	6.50	294.00	5022.38	1466.38	21.57	-21.70	-18.62	440873.20	674182.38	0.07	
5123.00	6.30	294.10	5116.79	1560.79	17.19	-17.38	-28.29	440877.52	674172.71	0.21	
5217.00	6.30	293.50	5210.22	1654.22	12.97	-13.22	-37.72	440881.68	674163.28	0.07	
5312.00	6.30	293.90	5304.65	1748.65	8.71	-9.03	-47.27	440885.87	674153.73	0.05	
5406.00	7.10	286.20	5398.01	1842.01	4.93	-5.32	-57.56	440889.58	674143.44	1.28	
5501.00	7.60	282.40	5492.23	1936.23	1.87	-2.33	-69.34	440892.57	674131.66	0.73	
5595.00	7.40	279.90	5585.42	2029.42	-0.59	0.05	-81.37	440894.95	674119.63	0.41	
5689.00	7.90	272.20	5678.59	2122.59	-1.96	1.33	-93.79	440896.23	674107.21	1.21	
5784.00	8.60	265.20	5772.61	2216.61	-1.70	0.99	-107.39	440895.89	674093.61	1.29	
5878.00	8.60	266.10	5865.55	2309.55	-0.73	-0.08	-121.41	440894.82	674079.59	0.14	
5973.00	8.60	265.40	5959.48	2403.48	0.23	-1.13	-135.57	440893.77	674065.43	0.11	
6067.00	8.60	266.10	6052.43	2496.43	1.18	-2.17	-149.59	440892.73	674051.41	0.11	
6161.00	8.70	265.60	6145.36	2589.36	2.11	-3.19	-163.69	440891.71	674037.31	0.13	
6256.00	8.60	266.10	6239.28	2683.28	3.05	-4.23	-177.94	440890.67	674023.06	0.13	
6351.00	8.60	266.10	6333.21	2777.21	3.92	-5.19	-192.11	440889.71	674008.89	0.00	
6445.00	8.60	265.50	6426.15	2870.15	4.86	-6.22	-206.13	440888.68	673994.87	0.10	
6540.00	8.90	265.40	6520.04	2964.04	5.91	-7.37	-220.54	440887.53	673980.46	0.32	
6635.00	8.70	265.20	6613.93	3057.93	7.00	-8.56	-235.02	440886.34	673965.98	0.21	
6730.00	8.40	265.00	6707.87	3151.87	8.11	-9.77	-249.10	440885.13	673951.90	0.32	
6824.00	8.30	265.10	6800.87	3244.87	9.20	-10.94	-262.70	440883.96	673938.30	0.11	
6918.00	8.10	265.00	6893.91	3337.91	10.27	-12.10	-276.05	440882.80	673924.95	0.21	
7012.00	8.20	264.30	6986.96	3430.96	11.42	-13.34	-289.32	440881.56	673911.68	0.15	
7106.00	8.00	264.20	7080.03	3524.03	12.66	-14.67	-302.50	440880.23	673898.50	0.21	
7200.00	7.90	264.20	7173.12	3617.12	13.89	-15.98	-315.43	440878.92	673885.57	0.11	
7294.00	7.70	264.00	7266.25	3710.25	15.12	-17.30	-328.12	440877.60	673872.88	0.21	
7389.00	7.60	263.30	7360.41	3804.41	16.43	-18.69	-340.69	440876.21	673860.31	0.14	
7483.00	7.50	262.80	7453.59	3897.59	17.85	-20.19	-352.95	440874.71	673848.05	0.13	
7577.00	7.40	262.60	7546.80	3990.80	19.31	-21.74	-365.04	440873.16	673835.96	0.11	
7672.00	7.30	262.80	7641.02	4085.02	20.78	-23.28	-377.10	440871.62	673823.90	0.11	
7766.00	7.20	262.50	7734.27	4178.27	22.22	-24.80	-388.86	440870.10	673812.14	0.11	
7861.00	7.00	262.50	7828.54	4272.54	23.67	-26.33	-400.50	440868.57	673800.50	0.21	
7956.00	7.00	262.10	7922.83	4366.83	25.15	-27.88	-411.98	440867.02	673789.02	0.05	
8050.00	6.90	261.40	8016.14	4460.14	26.71	-29.51	-423.23	440865.39	673777.77	0.14	
8144.00	6.80	260.80	8109.47	4553.47	28.37	-31.25	-434.31	440863.65	673766.69	0.13	
8238.00	6.50	261.90	8202.84	4646.84	29.93	-32.89	-445.07	440862.01	673755.93	0.35	
8332.00	6.20	261.20	8296.26	4740.26	31.39	-34.41	-455.35	440860.49	673745.65	0.33	
8427.00	6.00	262.90	8390.72	4834.72	32.72	-35.81	-465.35	440859.09	673735.65	0.28	
8522.00	5.40	261.30	8485.25	4929.25	33.95	-37.10	-474.70	440857.80	673726.30	0.65	
8616.00	5.60	267.20	8578.82	5022.82	34.79	-37.99	-483.65	440856.91	673717.35	0.64	
8710.00	5.80	270.80	8672.35	5116.35	34.88	-38.15	-492.98	440856.75	673708.02	0.44	
8805.00	5.30	270.00	8766.91	5210.91	34.75	-38.09	-502.17	440856.81	673698.83	0.53	
8899.00	4.90	270.80	8860.54	5304.54	34.64	-38.03	-510.52	440856.87	673690.48	0.43	
8993.00	4.70	272.50	8954.21	5398.21	34.37	-37.81	-518.38	440857.09	673682.62	0.26	
9088.00	4.50	274.30	9048.90	5492.90	33.87	-37.36	-525.99	440857.54	673675.01	0.26	
9183.00	4.20	277.00	9143.63	5587.63	33.12	-36.65	-533.16	440858.25	673667.84	0.38	
9277.00	4.00	277.70	9237.39	5681.39	32.21	-35.79	-539.82	440859.11	673661.18	0.22	
9371.00	4.10	269.90	9331.15	5775.15	31.74	-35.36	-546.43	440859.54	673654.57	0.60	
9466.00	5.50	266.40	9425.82	5869.82	31.97	-35.65	-554.37	440859.25	673646.63	1.50	
9560.00	6.20	263.60	9519.33	5963.33	32.76	-36.50	-563.91	440858.40	673637.09	0.80	
9655.00	7.20	262.00	9613.68	6057.68	34.09	-37.90	-574.91	440857.00	673626.09	1.07	
9749.00	7.10	265.00	9706.95	6150.95	35.34	-39.23	-586.53	440855.67	673614.47	0.41	
9844.00	6.90	264.90	9801.24	6245.24	36.28	-40.25	-598.06	440854.65	673602.94	0.21	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
9938.00	6.20	261.40	9894.62	6338.62	37.47	-41.51	-608.70	440853.39	673592.30	0.86	
10032.00	5.50	255.70	9988.14	6432.14	39.28	-43.38	-618.09	440851.52	673582.91	0.97	
10126.00	4.80	256.90	10081.76	6525.76	41.23	-45.38	-626.28	440849.52	673574.72	0.75	
10222.00	5.00	257.00	10177.40	6621.40	43.03	-47.23	-634.27	440847.67	673566.73	0.21	
10316.00	5.00	262.10	10271.05	6715.05	44.46	-48.72	-642.32	440846.18	673558.68	0.47	
10411.00	4.70	256.10	10365.71	6809.71	45.91	-50.22	-650.20	440844.68	673550.80	0.62	
10494.00	4.30	258.40	10448.45	6892.45	47.31	-51.67	-656.55	440843.23	673544.45	0.53	
10558.00	4.10	258.97	10512.28	6956.28	48.20	-52.59	-661.15	440842.31	673539.85	0.31	9 5/8 in
10622.00	3.91	259.59	10576.12	7020.12	49.00	-53.42	-665.54	440841.48	673535.46	0.31	
10716.00	7.52	255.54	10669.64	7113.64	51.06	-55.54	-674.65	440839.36	673526.35	3.86	
10811.00	7.60	253.17	10763.81	7207.81	54.35	-58.91	-686.69	440835.99	673514.31	0.34	
10905.00	7.30	251.15	10857.02	7301.02	58.00	-62.64	-698.29	440832.26	673502.71	0.42	
11000.00	7.21	248.16	10951.26	7395.26	62.10	-66.80	-709.53	440828.10	673491.47	0.41	
11094.00	6.59	243.33	11044.58	7488.58	66.64	-71.42	-719.83	440823.48	673481.17	0.90	
11188.00	6.90	226.54	11137.94	7581.94	72.89	-77.72	-728.75	440817.18	673472.25	2.12	
11239.00	9.01	218.72	11188.45	7632.45	78.08	-82.95	-733.47	440811.95	673467.53	4.64	
11286.00	18.73	209.31	11234.03	7678.03	87.52	-92.42	-739.48	440802.48	673461.52	21.16	
11334.00	16.79	193.23	11279.77	7723.77	100.96	-105.90	-744.84	440789.00	673456.16	10.95	
11381.00	18.02	189.89	11324.61	7768.61	114.71	-119.67	-747.65	440775.23	673453.35	3.37	
11429.00	21.80	185.93	11369.74	7813.74	130.88	-135.86	-749.84	440759.04	673451.16	8.36	
11476.00	25.41	182.86	11412.80	7856.80	149.63	-154.62	-751.25	440740.28	673449.75	8.11	
11523.00	29.58	180.66	11454.48	7898.48	171.31	-176.30	-751.89	440718.60	673449.11	9.13	
11571.00	33.58	179.43	11495.37	7939.37	196.44	-201.43	-751.89	440693.47	673449.11	8.44	
11618.00	36.88	178.46	11533.75	7977.75	223.54	-228.53	-751.38	440666.37	673449.62	7.12	
11665.00	40.62	176.97	11570.40	8014.40	252.94	-257.92	-750.19	440636.98	673450.81	8.20	
11712.00	44.88	175.56	11604.91	8048.91	284.78	-289.74	-748.10	440605.16	673452.90	9.29	
11760.00	51.38	177.85	11636.93	8080.93	320.45	-325.41	-746.08	440569.49	673454.92	14.00	
11807.00	57.32	181.98	11664.32	8108.32	358.61	-363.57	-746.08	440531.33	673454.92	14.51	
11855.00	61.01	183.39	11688.92	8132.92	399.76	-404.73	-748.02	440490.17	673452.98	8.09	
11903.00	67.52	184.44	11709.75	8153.75	442.85	-447.84	-750.98	440447.06	673450.02	13.70	
11950.00	72.88	184.79	11725.67	8169.67	486.89	-491.90	-754.54	440403.00	673446.46	11.43	
11997.00	74.51	183.91	11738.86	8182.86	531.84	-536.88	-757.96	440358.02	673443.04	3.91	
12044.00	76.62	184.09	11750.58	8194.58	577.22	-582.29	-761.13	440312.61	673439.87	4.50	
12092.00	79.38	182.86	11760.56	8204.56	624.06	-629.14	-763.98	440265.76	673437.02	6.27	
12139.00	84.09	180.66	11767.31	8211.31	670.53	-675.62	-765.40	440219.28	673435.60	11.04	
12233.00	91.30	178.55	11771.09	8215.09	764.38	-769.47	-764.75	440125.43	673436.25	7.99	Tie On Svy First WFT SVY
12351.00	89.63	180.43	11770.13	8214.13	882.37	-887.45	-763.70	440007.45	673437.30	2.13	
12445.00	89.69	179.71	11770.69	8214.69	976.37	-981.45	-763.81	439913.45	673437.19	0.77	
12540.00	89.63	179.98	11771.25	8215.25	1071.36	-1076.45	-763.56	439818.45	673437.44	0.29	
12634.00	89.63	179.87	11771.86	8215.86	1165.36	-1170.45	-763.43	439724.45	673437.57	0.12	
12730.00	89.94	179.68	11772.22	8216.22	1261.36	-1266.45	-763.06	439628.45	673437.94	0.38	
12824.00	89.94	180.38	11772.32	8216.32	1355.36	-1360.45	-763.10	439534.45	673437.90	0.74	
12919.00	89.88	180.83	11772.47	8216.47	1450.34	-1455.44	-764.11	439439.46	673436.89	0.48	
13014.00	89.88	180.74	11772.67	8216.67	1545.32	-1550.43	-765.41	439344.47	673435.59	0.09	
13109.00	90.31	181.18	11772.51	8216.51	1640.29	-1645.42	-767.00	439249.48	673434.00	0.65	
13204.00	89.81	181.02	11772.41	8216.41	1735.26	-1740.40	-768.82	439154.50	673432.18	0.55	
13298.00	90.37	181.22	11772.26	8216.26	1829.23	-1834.38	-770.66	439060.52	673430.34	0.63	
13392.00	91.05	181.01	11771.10	8215.10	1923.19	-1928.36	-772.49	438966.54	673428.51	0.76	
13443.00	91.12	181.10	11770.13	8214.13	1974.16	-1979.34	-773.43	438915.56	673427.57	0.22	
13538.00	92.31	180.86	11767.29	8211.29	2069.09	-2074.28	-775.05	438820.62	673425.95	1.28	
13631.00	90.98	181.30	11764.62	8208.62	2162.02	-2167.22	-776.81	438727.68	673424.19	1.51	
13726.00	88.95	181.24	11764.68	8208.68	2256.98	-2262.19	-778.91	438632.71	673422.09	2.14	
13820.00	88.81	181.12	11766.51	8210.51	2350.93	-2356.16	-780.85	438538.74	673420.15	0.20	
13914.00	89.30	180.83	11768.07	8212.07	2444.89	-2450.13	-782.45	438444.77	673418.55	0.61	
14009.00	90.21	180.18	11768.47	8212.47	2539.87	-2545.12	-783.28	438349.78	673417.72	1.18	
14103.00	90.70	179.64	11767.72	8211.72	2633.87	-2639.12	-783.14	438255.78	673417.86	0.78	
14198.00	90.07	179.42	11767.09	8211.09	2728.86	-2734.11	-782.36	438160.79	673418.64	0.70	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
14293.00	90.00	178.97	11767.03	8211.03	2823.86	-2829.10	-781.02	438065.80	673419.98	0.48	
14388.00	90.70	178.74	11766.45	8210.45	2918.85	-2924.08	-779.12	437970.82	673421.88	0.78	
14482.00	89.93	178.70	11765.93	8209.93	3012.84	-3018.06	-777.02	437876.84	673423.98	0.82	
14577.00	90.70	178.08	11765.41	8209.41	3107.81	-3113.02	-774.35	437781.88	673426.65	1.04	
14671.00	89.16	179.23	11765.52	8209.52	3201.79	-3206.99	-772.15	437687.91	673428.85	2.04	
14766.00	90.28	178.81	11765.99	8209.99	3296.79	-3301.97	-770.52	437592.93	673430.48	1.26	
14861.00	88.67	180.07	11766.86	8210.86	3391.78	-3396.96	-769.60	437497.94	673431.40	2.15	
14955.00	92.87	180.57	11765.60	8209.60	3485.74	-3490.92	-770.12	437403.98	673430.88	4.50	
15079.00	88.39	180.72	11764.23	8208.23	3609.68	-3614.88	-771.52	437280.02	673429.48	3.61	
15173.00	88.04	179.92	11767.16	8211.16	3703.63	-3708.83	-772.04	437186.07	673428.96	0.93	
15267.00	88.11	179.29	11770.32	8214.32	3797.57	-3802.77	-771.39	437092.13	673429.61	0.67	
15362.00	88.60	178.03	11773.05	8217.05	3892.52	-3897.71	-769.17	436997.19	673431.83	1.42	
15456.00	88.60	178.82	11775.34	8219.34	3986.47	-3991.64	-766.59	436903.26	673434.41	0.84	
15551.00	88.53	178.83	11777.72	8221.72	4081.43	-4086.59	-764.64	436808.31	673436.36	0.07	
15645.00	89.51	178.05	11779.33	8223.33	4175.40	-4180.54	-762.08	436714.36	673438.92	1.33	
15740.00	89.16	179.12	11780.43	8224.43	4270.37	-4275.51	-759.74	436619.39	673441.26	1.18	
15835.00	90.28	179.08	11780.90	8224.90	4365.37	-4370.49	-758.24	436524.41	673442.76	1.18	
15930.00	90.35	180.24	11780.37	8224.37	4460.36	-4465.49	-757.68	436429.41	673443.32	1.22	
16024.00	89.37	181.37	11780.60	8224.60	4554.34	-4559.47	-759.00	436335.43	673442.00	1.59	
16119.00	89.23	181.23	11781.76	8225.76	4649.29	-4654.44	-761.16	436240.46	673439.84	0.21	
16213.00	90.77	180.96	11781.76	8225.76	4743.26	-4748.42	-762.95	436146.48	673438.05	1.66	
16308.00	88.39	180.07	11782.46	8226.46	4838.24	-4843.41	-763.81	436051.49	673437.19	2.67	
16403.00	89.65	179.55	11784.08	8228.08	4933.22	-4938.39	-763.49	435956.51	673437.51	1.43	
16497.00	91.54	180.00	11783.11	8227.11	5027.21	-5032.38	-763.12	435862.52	673437.88	2.07	
16592.00	88.81	181.69	11782.82	8226.82	5122.17	-5127.36	-764.52	435767.54	673436.48	3.38	
16687.00	91.54	182.09	11782.53	8226.53	5217.09	-5222.30	-767.66	435672.60	673433.34	2.90	
16781.00	89.37	181.17	11781.78	8225.78	5311.02	-5316.25	-770.33	435578.65	673430.67	2.51	
16875.00	88.81	180.46	11783.27	8227.27	5404.99	-5410.23	-771.67	435484.67	673429.33	0.96	
16969.00	90.77	180.49	11783.62	8227.62	5498.97	-5504.22	-772.45	435390.68	673428.55	2.09	
17064.00	88.18	179.17	11784.49	8228.49	5593.96	-5599.20	-772.16	435295.70	673428.84	3.06	
17158.00	87.76	178.88	11787.82	8231.82	5687.90	-5693.13	-770.57	435201.77	673430.43	0.54	
17253.00	88.25	178.41	11791.13	8235.13	5782.82	-5788.05	-768.32	435106.85	673432.68	0.71	
17347.00	88.25	176.83	11794.00	8238.00	5876.72	-5881.92	-764.42	435012.98	673436.58	1.68	
17442.00	89.86	176.18	11795.56	8239.56	5971.56	-5976.73	-758.63	434918.17	673442.37	1.83	
17536.00	92.17	177.41	11793.90	8237.90	6065.43	-6070.56	-753.37	434824.34	673447.63	2.78	
17631.00	91.96	177.77	11790.48	8234.48	6160.30	-6165.41	-749.38	434729.49	673451.62	0.44	
17725.00	90.28	178.82	11788.64	8232.64	6254.26	-6259.35	-746.59	434635.55	673454.41	2.11	
17820.00	89.02	179.81	11789.22	8233.22	6349.25	-6354.33	-745.45	434540.57	673455.55	1.69	
17914.00	88.53	178.97	11791.23	8235.23	6443.23	-6448.31	-744.45	434446.59	673456.55	1.03	
18009.00	89.37	178.46	11792.97	8236.97	6538.20	-6543.26	-742.32	434351.64	673458.68	1.03	
18104.00	90.63	180.14	11792.97	8236.97	6633.19	-6638.25	-741.16	434256.65	673459.84	2.21	
18198.00	91.47	180.46	11791.25	8235.25	6727.17	-6732.23	-741.65	434162.67	673459.35	0.96	
18293.00	90.63	180.53	11789.51	8233.51	6822.14	-6827.21	-742.47	434067.69	673458.53	0.89	
18387.00	90.49	180.09	11788.59	8232.59	6916.13	-6921.21	-742.98	433973.69	673458.02	0.49	
18482.00	91.19	178.56	11787.19	8231.19	7011.11	-7016.19	-741.86	433878.71	673459.14	1.77	
18576.00	90.35	179.98	11785.93	8229.93	7105.10	-7110.17	-740.66	433784.73	673460.34	1.76	
18671.00	89.65	180.27	11785.93	8229.93	7200.09	-7205.17	-740.87	433689.73	673460.13	0.80	
18765.00	88.81	179.28	11787.19	8231.19	7294.08	-7299.16	-740.50	433595.74	673460.50	1.38	
18859.00	89.79	177.74	11788.34	8232.34	7388.06	-7393.11	-738.06	433501.79	673462.94	1.94	
18954.00	88.11	178.50	11790.08	8234.08	7483.00	-7488.04	-734.94	433406.86	673466.06	1.94	
19048.00	88.67	178.71	11792.72	8236.72	7576.95	-7581.98	-732.66	433312.92	673468.34	0.64	
19144.00	90.07	178.39	11793.78	8237.78	7672.93	-7677.94	-730.23	433216.96	673470.77	1.50	
19238.00	90.56	182.50	11793.26	8237.26	7766.89	-7771.91	-730.96	433122.99	673470.04	4.40	
19332.00	91.33	184.79	11791.71	8235.71	7860.64	-7865.70	-736.93	433029.20	673464.07	2.57	
19426.00	92.24	184.24	11788.78	8232.78	7954.25	-7959.36	-744.33	432935.54	673456.67	1.13	
19520.00	90.21	181.84	11786.78	8230.78	8048.05	-8053.20	-749.31	432841.70	673451.69	3.34	
19614.00	90.70	180.75	11786.03	8230.03	8142.01	-8147.17	-751.43	432747.73	673449.57	1.27	
19708.00	90.49	180.04	11785.05	8229.05	8235.99	-8241.16	-752.08	432653.74	673448.92	0.79	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
19803.00	90.00	178.98	11784.65	8228.65	8330.99	-8336.16	-751.27	432558.74	673449.73	1.23	
19897.00	90.84	177.88	11783.96	8227.96	8424.97	-8430.12	-748.69	432464.78	673452.31	1.47	
19991.00	90.56	180.04	11782.81	8226.81	8518.95	-8524.09	-746.99	432370.81	673454.01	2.32	
20086.00	89.93	181.90	11782.40	8226.40	8613.91	-8619.07	-748.60	432275.83	673452.40	2.07	
20180.00	91.40	181.65	11781.31	8225.31	8707.84	-8713.01	-751.51	432181.89	673449.49	1.59	
20275.00	87.83	179.98	11781.95	8225.95	8802.80	-8807.98	-752.86	432086.92	673448.14	4.15	
20369.00	89.58	179.92	11784.07	8228.07	8896.77	-8901.96	-752.78	431992.94	673448.22	1.86	
20463.00	90.77	179.41	11783.79	8227.79	8990.77	-8995.95	-752.23	431898.95	673448.77	1.38	
20557.00	88.74	179.31	11784.19	8228.19	9084.76	-9089.94	-751.18	431804.96	673449.82	2.16	
20651.00	88.25	179.04	11786.66	8230.66	9178.72	-9183.90	-749.82	431711.00	673451.18	0.60	
20746.00	89.23	178.14	11788.75	8232.75	9273.68	-9278.84	-747.49	431616.06	673453.51	1.40	
20935.00	89.58	178.35	11790.71	8234.71	9462.62	-9467.75	-741.70	431427.15	673459.30	0.22	
21030.00	90.56	179.86	11790.59	8234.59	9557.61	-9562.73	-740.22	431332.17	673460.78	1.89	
21125.00	91.61	180.11	11788.79	8232.79	9652.59	-9657.71	-740.19	431237.19	673460.81	1.14	
21219.00	92.80	179.26	11785.18	8229.18	9746.52	-9751.64	-739.67	431143.26	673461.33	1.56	
21313.00	91.96	179.16	11781.27	8225.27	9840.43	-9845.55	-738.38	431049.35	673462.62	0.90	
21407.00	89.93	179.98	11779.72	8223.72	9934.41	-9939.53	-737.67	430955.37	673463.33	2.33	
21502.00	88.88	180.45	11780.71	8224.71	10029.40	-10034.52	-738.03	430860.38	673462.97	1.21	
21596.00	90.07	180.40	11781.57	8225.57	10123.39	-10128.51	-738.73	430766.39	673462.27	1.27	
21691.00	87.83	180.15	11783.31	8227.31	10218.36	-10223.49	-739.18	430671.41	673461.82	2.37	
21786.00	88.18	179.93	11786.62	8230.62	10313.30	-10318.43	-739.25	430576.47	673461.75	0.44	
21880.00	88.67	180.25	11789.20	8233.20	10407.26	-10412.39	-739.40	430482.51	673461.60	0.62	
21975.00	90.28	180.60	11790.07	8234.07	10502.24	-10507.38	-740.10	430387.52	673460.90	1.73	
22070.00	89.16	180.68	11790.54	8234.54	10597.23	-10602.37	-741.16	430292.53	673459.84	1.18	
22164.00	90.70	181.61	11790.65	8234.65	10691.19	-10696.35	-743.04	430198.55	673457.96	1.91	
22258.00	89.65	181.42	11790.37	8234.37	10785.14	-10790.32	-745.53	430104.58	673455.47	1.14	
22353.00	88.39	180.30	11791.99	8235.99	10880.10	-10885.29	-746.95	430009.61	673454.05	1.77	
22448.00	90.00	180.22	11793.33	8237.33	10975.08	-10980.28	-747.38	429914.62	673453.62	1.70	
22543.00	90.00	179.56	11793.33	8237.33	11070.08	-11075.27	-747.20	429819.63	673453.80	0.69	
22637.00	89.16	179.20	11794.01	8238.01	11164.07	-11169.27	-746.18	429725.63	673454.82	0.97	
22732.00	88.95	179.14	11795.58	8239.58	11259.06	-11264.24	-744.81	429630.66	673456.19	0.23	
22827.00	90.63	179.41	11795.93	8239.93	11354.05	-11359.23	-743.61	429535.67	673457.39	1.79	
22916.00	90.98	178.62	11794.68	8238.68	11443.04	-11448.21	-742.08	429446.69	673458.92	0.97	
23010.00	91.19	177.93	11792.90	8236.90	11536.99	-11542.15	-739.25	429352.75	673461.75	0.77	
23105.00	90.42	178.74	11791.56	8235.56	11631.96	-11637.10	-736.49	429257.80	673464.51	1.18	
23199.00	89.79	179.61	11791.39	8235.39	11725.95	-11731.09	-735.13	429163.81	673465.87	1.14	
23293.00	90.21	179.79	11791.39	8235.39	11819.95	-11825.08	-734.64	429069.82	673466.36	0.49	
23388.00	89.02	180.14	11792.03	8236.03	11914.95	-11920.08	-734.58	428974.82	673466.42	1.31	
23482.00	88.95	178.69	11793.70	8237.70	12008.93	-12014.06	-733.62	428880.84	673467.38	1.54	
23577.00	89.44	178.27	11795.03	8239.03	12103.90	-12109.02	-731.10	428785.88	673469.90	0.68	
23672.00	91.61	178.71	11794.16	8238.16	12198.87	-12203.97	-728.60	428690.93	673472.40	2.33	
23767.00	88.74	177.97	11793.87	8237.87	12293.84	-12298.92	-725.85	428595.98	673475.15	3.12	
23862.00	86.57	178.63	11797.76	8241.76	12388.73	-12393.79	-723.03	428501.11	673477.97	2.39	
23957.00	88.95	181.23	11801.47	8245.47	12483.64	-12488.71	-722.92	428406.19	673478.08	3.71	
24052.00	89.79	181.14	11802.51	8246.51	12578.59	-12583.68	-724.88	428311.22	673476.12	0.89	
24147.00	87.76	180.76	11804.55	8248.55	12673.54	-12678.64	-726.46	428216.26	673474.54	2.17	
24241.00	86.29	180.43	11809.42	8253.42	12767.40	-12772.50	-727.43	428122.40	673473.57	1.60	
24335.00	90.56	181.89	11812.01	8256.01	12861.31	-12866.43	-729.34	428028.47	673471.66	4.80	
24431.00	89.58	179.82	11811.89	8255.89	12957.28	-12962.41	-730.77	427932.49	673470.23	2.39	
24524.00	89.79	179.13	11812.40	8256.40	13050.27	-13055.40	-729.92	427839.50	673471.08	0.78	
24619.00	89.23	178.98	11813.21	8257.21	13145.27	-13150.39	-728.35	427744.51	673472.65	0.61	
24713.00	88.39	178.60	11815.17	8259.17	13239.23	-13244.34	-726.37	427650.56	673474.63	0.98	
24756.00	87.83	177.95	11816.58	8260.58	13282.20	-13287.30	-725.07	427607.60	673475.93	1.99	Last WFT SVY
24820.00	87.83	177.95	11819.01	8263.01	13346.13	-13351.21	-722.78	427543.69	673478.22	0.00	PTB