

Intent ☐ As Drilled ☒

API # 30-015-45468								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: POKER LAKE UNIT 20 BD			Well Number 102H		

Kick Off Point (KOP)

UL M	Section 20	Township 25S	Range 30E	Lot	Feet 280	From N/S S	Feet 937	From E/W W	County EDDY
Latitude 32.109027					Longitude 103.909041				NAD 83

First Take Point (FTP)

UL D	Section 29	Township 25S	Range 30E	Lot	Feet 317	From N/S N	Feet 971	From E/W W	County EDDY
Latitude 32.107386					Longitude 103.908928				NAD 83

Last Take Point (LTP)

UL M	Section 32	Township 25S	Range 30E	Lot	Feet 347	From N/S S	Feet 987	From E/W W	County EDDY
Latitude 32.080001					Longitude 103.908876				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 # 30-015-45492								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: POKER LAKE UNIT 20 BD			Well Number 701H		

KZ 06/29/2018



5611 Baird Court
Houston, TX 77041

May 7, 2020

XTO Energy
Poker Lake Unit 20 BD 102H
Eddy, NM

I, Matt Simpson, certify: that I am employed by Premier Directional Drilling, LLC; that on the day(s) of December 18, 2019 – January 17, 2020 I conducted and/or supervised the taking of MWD surveys for the Poker Lake Unit 20 BD 102H (API# 30-015-45468) from a depth of 198.00 feet to a depth of 22,091.00 feet; that the data is true, correct, complete, and within the limitations of the tool as set forth by Premier Directional Drilling, LLC; that I am authorized and qualified to make this report; that this survey was conducted accordingly at the request of XTO Energy; that I reviewed this report and find it conforms to the principles and procedures as set forth by Premier Directional Drilling, LLC.

Matt Simpson

Matt Simpson
MWD Coordinator
Premier Directional Drilling, LLC

**TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.**

Well Name: Poker Lake Unit 20 BD 102H	Operator: XTO ENERGY, INC.
Rig: Nabors X32	County / State: Eddy, New Mexico
Geo Datum: NAD27	Map Zone: New Mexico East 3001
SHL LAT / LONG: 32°6' 32.40" N / 103°54' 34.92" W	System Datum: NAD27
API: 30-015-45468	North Reference: Grid
GL: 3,156.00 ft	Total Correction: 6.59
RKB Height: 32.50 ft	Grid Convergence: 0.220
Elevation: 3,188.50 ft	VS Azimuth: 179.77
Field: Eddy County, NM	Survey Tool Type: IFR1
DD Personnel: Danny Reiger	MWD Personnel: Michael Johnson
Jeff Arenas	Mike Turner

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
	Tie In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0 N	0.0 E
34	1	198.00	1.14	265.08	197.99	0.16	-0.17	-1.96	0.58	-0.2 S	2.0 W
33	2	229.00	0.97	265.43	228.98	0.21	-0.22	-2.53	0.55	-0.2 S	2.5 W
60	3	323.00	1.05	274.66	322.97	0.19	-0.21	-4.18	0.19	-0.2 S	4.2 W
1,359	4	404.00	0.97	258.66	403.95	0.26	-0.28	-5.59	0.36	-0.3 S	5.6 W
52	5	498.00	1.19	255.32	497.94	0.66	-0.69	-7.32	0.24	-0.7 S	7.3 W
40	6	605.00	0.92	245.48	604.92	1.29	-1.33	-9.18	0.30	-1.3 S	9.2 W
99	7	699.00	1.05	212.34	698.91	2.33	-2.37	-10.32	0.61	-2.4 S	10.3 W
100	8	787.00	0.97	187.73	786.89	3.74	-3.79	-10.85	0.50	-3.8 S	10.9 W
45	9	881.00	1.54	138.34	880.87	5.48	-5.52	-10.12	1.24	-5.5 S	10.1 W
36	10	976.00	2.11	123.05	975.82	7.39	-7.43	-7.81	0.78	-7.4 S	7.8 W
52	11	1,071.00	2.42	99.14	1,070.75	8.68	-8.70	-4.36	1.04	-8.7 S	4.4 W
40	12	1,166.00	3.03	82.00	1,165.65	8.67	-8.67	0.11	1.06	-8.7 S	0.1 E
48	13	1,260.00	4.53	82.18	1,259.44	7.84	-7.82	6.24	1.60	-7.8 S	5.7 E
33	14	1,355.00	6.20	86.92	1,354.02	7.09	-7.03	15.08	1.82	-7.0 S	12.8 E
53	15	1,450.00	6.86	89.30	1,448.40	6.79	-6.69	25.88	0.75	-6.7 S	20.3 E
38	16	1,545.00	7.08	89.21	1,542.70	6.69	-6.54	37.41	0.23	-6.6 S	26.9 E
36	17	1,639.00	7.43	90.26	1,635.95	6.68	-6.48	49.28	0.40	-6.6 S	32.5 E
50	18	1,734.00	7.69	90.88	1,730.12	6.86	-6.61	61.77	0.29	-6.7 S	37.0 E
35	19	1,828.00	7.34	90.53	1,823.31	7.06	-6.76	74.07	0.38	-6.9 S	40.1 E
26	20	1,923.00	6.55	91.67	1,917.62	7.32	-6.97	85.55	0.84	-7.2 S	41.7 E
36	21	2,018.00	5.93	84.11	2,012.06	7.01	-6.63	95.85	1.08	-6.8 S	42.1 E
39	22	2,113.00	6.07	79.19	2,106.54	5.61	-5.18	105.66	0.56	-5.4 S	41.9 E
29	23	2,207.00	5.98	83.05	2,200.02	4.12	-3.66	115.41	0.44	-4.0 S	41.9 E
21	24	2,302.00	6.15	84.02	2,294.48	3.03	-2.53	125.38	0.21	-2.9 S	41.9 E
24	25	2,396.00	6.20	82.88	2,387.94	1.92	-1.38	135.43	0.14	-1.8 S	42.1 E
24	26	2,491.00	6.15	87.63	2,482.39	1.11	-0.53	145.60	0.54	-0.9 S	42.4 E

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
26	27	2,585.00	5.93	90.88	2,575.87	1.02	-0.40	155.49	0.43	-0.9 S	42.4 E
20	28	2,680.00	5.67	89.91	2,670.38	1.13	-0.46	165.09	0.29	-1.0 S	42.1 E
22	29	2,775.00	5.45	89.38	2,764.93	1.11	-0.41	174.29	0.24	-0.9 S	41.4 E
23	30	2,869.00	5.36	89.56	2,858.52	1.06	-0.33	183.14	0.10	-0.9 S	40.4 E
23	31	2,963.00	5.63	91.23	2,952.08	1.16	-0.39	192.14	0.33	-1.0 S	39.6 E
21	32	3,059.00	6.07	94.04	3,047.58	1.66	-0.85	201.92	0.55	-1.5 S	39.3 E
19	33	3,153.00	6.15	87.45	3,141.05	1.83	-0.98	211.90	0.75	-1.7 S	39.5 E
11	34	3,248.00	6.64	90.44	3,235.46	1.69	-0.79	222.48	0.62	-1.5 S	40.1 E
14	35	3,343.00	6.95	95.54	3,329.79	2.33	-1.39	233.69	0.71	-2.2 S	41.4 E
19	36	3,438.00	7.25	97.64	3,424.07	3.73	-2.74	245.35	0.42	-3.6 S	43.2 E
16	37	3,474.00	7.21	97.47	3,459.78	4.34	-3.34	249.85	0.13	-4.2 S	43.9 E
95	38	3,628.00	7.38	96.15	3,612.53	6.73	-5.65	269.26	0.16	-6.5 S	47.3 E
73	39	3,723.00	7.52	94.22	3,706.73	7.89	-6.76	281.53	0.30	-7.7 S	49.6 E
60	40	3,818.00	7.56	91.84	3,800.91	8.60	-7.42	293.97	0.33	-8.4 S	52.2 E
75	41	3,913.00	6.86	91.23	3,895.16	8.97	-7.74	305.89	0.74	-8.8 S	54.2 E
78	42	4,007.00	6.33	89.56	3,988.54	9.10	-7.82	316.69	0.60	-8.9 S	55.2 E
61	43	4,103.00	6.90	89.73	4,083.90	9.07	-7.76	327.74	0.59	-8.8 S	56.2 E
94	44	4,198.00	7.21	90.79	4,178.18	9.17	-7.81	339.41	0.35	-8.9 S	58.0 E
95	45	4,292.00	6.59	87.45	4,271.50	9.06	-7.65	350.70	0.79	-8.8 S	59.4 E
55	46	4,387.00	5.76	79.72	4,365.95	8.01	-6.56	360.84	1.23	-7.8 S	59.6 E
84	47	4,482.00	5.76	76.90	4,460.47	6.12	-4.63	370.17	0.30	-5.9 S	59.0 E
59	48	4,576.00	5.63	74.71	4,554.00	3.87	-2.34	379.21	0.27	-3.6 S	58.3 E
80	49	4,671.00	6.11	74.62	4,648.50	1.33	0.23	388.58	0.51	-1.1 S	57.7 E
84	50	4,767.00	6.02	75.41	4,743.97	-1.25	2.85	398.38	0.13	1.5 N	57.5 E
80	51	4,862.00	5.05	74.18	4,838.52	-3.61	5.24	407.22	1.03	3.8 N	56.4 E
125	52	4,957.00	4.22	71.10	4,933.21	-5.85	7.52	414.55	0.91	6.1 N	53.7 E
83	53	5,051.00	3.56	68.55	5,026.99	-8.01	9.70	420.54	0.73	8.2 N	49.9 E
115	54	5,146.00	2.37	68.73	5,121.86	-9.79	11.49	425.12	1.25	10.0 N	44.5 E
94	55	5,241.00	1.67	60.64	5,216.81	-11.17	12.89	428.15	0.79	11.3 N	37.6 E
66	56	5,336.00	1.49	65.56	5,311.77	-12.35	14.08	430.49	0.24	12.5 N	31.1 E
83	57	5,430.00	1.27	64.33	5,405.74	-13.30	15.03	432.54	0.24	13.4 N	25.8 E
77	58	5,525.00	1.10	66.88	5,500.72	-14.10	15.85	434.32	0.19	14.2 N	21.7 E
176	59	5,620.00	0.97	58.88	5,595.71	-14.87	16.62	435.85	0.20	14.9 N	18.9 E
177	60	5,715.00	0.97	58.62	5,690.69	-15.70	17.45	437.23	0.00	15.8 N	17.6 E
69	61	5,809.00	0.66	46.14	5,784.68	-16.48	18.24	438.30	0.38	16.6 N	17.5 E
63	62	5,904.00	0.66	32.17	5,879.68	-17.32	19.09	438.98	0.17	17.4 N	18.1 E
163	63	5,999.00	0.53	56.25	5,974.67	-18.03	19.79	439.64	0.29	18.1 N	18.8 E
75	64	6,093.00	0.40	74.71	6,068.67	-18.35	20.12	440.32	0.21	18.4 N	19.4 E
77	65	6,188.00	0.40	97.47	6,163.67	-18.40	20.17	440.97	0.17	18.5 N	20.1 E
57	66	6,283.00	0.57	98.88	6,258.66	-18.28	20.05	441.76	0.18	18.4 N	20.9 E
66	67	6,378.00	0.44	96.68	6,353.66	-18.16	19.93	442.59	0.14	18.2 N	21.7 E
93	68	6,472.00	0.48	102.39	6,447.66	-18.03	19.81	443.33	0.06	18.1 N	22.4 E
63	69	6,565.00	0.35	121.73	6,540.65	-17.79	19.57	443.95	0.20	17.9 N	23.1 E
72	70	6,660.00	0.66	137.72	6,635.65	-17.23	19.02	444.57	0.36	17.3 N	23.7 E

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
62	71	6,754.00	0.66	170.59	6,729.64	-16.30	18.08	445.02	0.40	16.4 N	24.1 E
55	72	6,850.00	0.75	172.00	6,825.64	-15.13	16.91	445.20	0.10	15.2 N	24.3 E
86	73	6,944.00	0.92	181.14	6,919.63	-13.76	15.55	445.27	0.23	13.9 N	24.4 E
72	74	7,039.00	1.05	184.83	7,014.61	-12.13	13.92	445.18	0.15	12.2 N	24.3 E
80	75	7,134.00	1.10	186.68	7,109.60	-10.36	12.15	445.00	0.06	10.5 N	24.1 E
139	76	7,230.00	1.41	188.61	7,205.57	-8.28	10.07	444.72	0.33	8.4 N	23.8 E
93	77	7,325.00	1.45	198.37	7,300.54	-5.99	7.77	444.17	0.26	6.1 N	23.3 E
66	78	7,420.00	1.71	202.15	7,395.51	-3.54	5.32	443.25	0.29	3.6 N	22.4 E
42	79	7,514.00	1.85	224.56	7,489.46	-1.16	2.94	441.66	0.75	1.2 N	20.8 E
156	80	7,609.00	1.89	241.26	7,584.41	0.67	1.09	439.21	0.57	-0.6 S	18.3 E
64	81	7,702.00	2.15	256.55	7,677.35	1.80	-0.05	436.17	0.64	-1.7 S	15.3 E
33	82	7,797.00	1.93	259.72	7,772.29	2.49	-0.75	432.86	0.26	-2.4 S	12.0 E
164	83	7,891.00	1.76	270.97	7,866.25	2.74	-1.01	429.86	0.42	-2.7 S	9.0 E
31	84	7,986.00	0.88	255.67	7,961.22	2.88	-1.17	427.69	0.99	-2.9 S	6.8 E
110	85	8,082.00	0.66	229.39	8,057.21	3.42	-1.71	426.56	0.43	-3.4 S	5.7 E
181	86	8,177.00	0.79	206.45	8,152.20	4.36	-2.65	425.85	0.33	-4.3 S	5.0 E
84	87	8,272.00	1.36	192.57	8,247.19	6.05	-4.34	425.32	0.66	-6.0 S	4.4 E
42	88	8,367.00	1.58	198.10	8,342.16	8.39	-6.68	424.66	0.28	-8.4 S	3.8 E
97	89	8,461.00	1.67	193.27	8,436.12	10.95	-9.25	423.95	0.17	-10.9 S	3.1 E
74	90	8,555.00	1.76	200.56	8,530.08	13.63	-11.93	423.13	0.25	-13.6 S	2.2 E
120	91	8,652.00	1.63	208.30	8,627.03	16.24	-14.54	421.95	0.27	-16.2 S	1.1 E
28	92	8,744.00	1.45	221.22	8,719.00	18.26	-16.57	420.56	0.42	-18.3 S	0.3 W
58	93	8,839.00	1.23	237.92	8,813.98	19.70	-18.02	418.91	0.47	-19.7 S	2.0 W
61	94	8,934.00	0.88	235.11	8,908.96	20.65	-18.98	417.44	0.37	-20.7 S	3.4 W
29	95	9,029.00	0.40	219.90	9,003.95	21.32	-19.65	416.63	0.53	-21.3 S	4.3 W
58	96	9,124.00	0.22	278.96	9,098.95	21.54	-19.87	416.24	0.36	-21.6 S	4.6 W
86	97	9,219.00	0.66	322.21	9,193.95	21.08	-19.41	415.72	0.55	-21.1 S	5.2 W
71	98	9,314.00	0.84	299.88	9,288.94	20.30	-18.63	414.78	0.36	-20.3 S	6.1 W
91	99	9,409.00	1.01	283.18	9,383.93	19.75	-18.10	413.37	0.33	-19.8 S	7.5 W
94	100	9,503.00	1.14	278.17	9,477.91	19.43	-17.77	411.63	0.17	-19.5 S	9.3 W
69	101	9,598.00	0.84	271.76	9,572.90	19.26	-17.62	410.00	0.34	-19.3 S	10.9 W
37	102	9,693.00	0.66	226.76	9,667.89	19.61	-17.97	408.91	0.63	-19.7 S	12.0 W
33	103	9,787.00	0.97	217.70	9,761.88	20.61	-18.97	408.03	0.36	-20.7 S	12.9 W
72	104	9,882.00	1.54	204.34	9,856.86	22.40	-20.77	407.01	0.67	-22.5 S	13.9 W
69	105	9,976.00	1.93	205.57	9,950.81	24.98	-23.35	405.80	0.42	-25.0 S	15.1 W
45	106	10,072.00	2.11	218.05	10,046.76	27.82	-26.20	404.02	0.49	-27.9 S	16.9 W
97	107	10,166.00	2.37	226.40	10,140.68	30.51	-28.90	401.54	0.44	-30.6 S	19.3 W
67	108	10,264.00	2.42	232.56	10,238.60	33.16	-31.56	398.43	0.27	-33.2 S	22.5 W
106	109	10,359.00	2.33	245.04	10,333.52	35.18	-33.59	395.09	0.55	-35.3 S	25.8 W
62	110	10,454.00	2.24	252.60	10,428.44	36.53	-34.96	391.57	0.33	-36.7 S	29.3 W
66	111	10,549.00	2.29	250.84	10,523.37	37.70	-36.14	388.00	0.09	-37.8 S	32.9 W
115	112	10,644.00	2.29	249.17	10,618.29	38.98	-37.44	384.44	0.07	-39.1 S	36.4 W
93	113	10,738.00	2.42	246.71	10,712.21	40.42	-38.89	380.86	0.18	-40.6 S	40.0 W
79	114	10,792.00	2.64	248.47	10,766.16	41.32	-39.80	378.65	0.43	-41.5 S	42.2 W

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
107	115	10,940.00	3.08	250.96	10,913.98	43.84	-42.35	371.72	0.31	-44.0 S	49.2 W
60	116	11,033.00	4.28	226.22	11,006.79	47.03	-45.56	366.86	2.11	-47.3 S	54.0 W
93	117	11,130.00	11.51	189.08	11,102.85	59.10	-57.65	362.71	8.76	-56.6 A	58.4 R
80	118	11,224.00	20.69	175.66	11,193.10	84.98	-83.53	362.48	10.48	-67.1 A	58.7 R
118	119	11,319.00	24.38	173.53	11,280.83	121.23	-119.76	365.97	3.98	-73.4 A	55.4 R
113	120	11,414.00	32.59	176.70	11,364.26	166.34	-164.86	369.65	8.78	-91.1 A	51.9 R
79	121	11,509.00	41.91	177.00	11,439.80	223.71	-222.22	372.79	9.81	-66.4 A	49.0 R
76	123	11,698.00	61.05	174.47	11,556.55	371.01	-369.49	380.76	10.32	-31.4 A	41.6 R
99	124	11,792.00	66.97	174.85	11,597.72	455.13	-453.58	388.61	6.31	-14.9 A	34.1 R
60	125	11,886.00	79.55	176.06	11,624.75	544.71	-543.13	395.70	13.44	0.5 B	27.4 R
52	126	11,981.00	88.04	173.68	11,635.01	638.72	-637.10	404.15	9.28	10.0 B	19.3 R
68	127	12,076.00	89.89	175.13	11,636.72	733.28	-731.63	413.41	2.47	11.7 B	10.4 R
94	128	12,169.00	88.15	177.10	11,638.31	826.07	-824.39	419.71	2.83	13.3 B	4.5 R
55	129	12,264.00	88.65	176.18	11,640.97	920.89	-919.19	425.28	1.10	16.0 B	0.7 L
66	130	12,358.00	87.67	178.16	11,643.98	1,014.74	-1,013.02	429.92	2.35	19.0 B	5.0 L
59	131	12,453.00	87.65	176.99	11,647.86	1,109.59	-1,107.85	433.93	1.23	22.9 B	8.6 L
64	132	12,548.00	89.16	178.49	11,650.51	1,204.49	-1,202.74	437.68	2.24	25.5 B	12.0 L
57	133	12,642.00	90.03	179.90	11,651.17	1,298.48	-1,296.72	439.00	1.76	26.2 B	12.9 L
99	134	12,737.00	90.67	180.74	11,650.59	1,393.47	-1,391.72	438.47	1.11	25.6 B	12.0 L
62	135	12,832.00	90.48	179.24	11,649.64	1,488.46	-1,486.71	438.48	1.59	24.6 B	11.6 L
63	136	12,927.00	90.48	178.44	11,648.84	1,583.44	-1,581.69	440.41	0.84	23.8 B	13.2 L
54	137	13,022.00	89.58	180.19	11,648.79	1,678.44	-1,676.68	441.54	2.07	23.8 B	13.9 L
62	138	13,117.00	89.86	181.50	11,649.26	1,773.42	-1,771.66	440.14	1.41	24.3 B	12.1 L
59	139	13,212.00	90.06	180.79	11,649.32	1,868.39	-1,866.64	438.24	0.78	24.3 B	9.9 L
60	140	13,307.00	89.33	180.28	11,649.83	1,963.38	-1,961.64	437.36	0.94	24.8 B	8.6 L
59	141	13,402.00	89.33	179.86	11,650.94	2,058.37	-2,056.63	437.24	0.44	25.9 B	8.1 L
59	142	13,496.00	88.60	180.55	11,652.64	2,152.35	-2,150.61	436.90	1.07	27.6 B	7.4 L
106	143	13,591.00	88.10	179.48	11,655.37	2,247.31	-2,245.57	436.88	1.24	30.4 B	7.0 L
102	144	13,686.00	88.29	180.77	11,658.37	2,342.26	-2,340.52	436.67	1.37	33.4 B	6.4 L
126	145	13,780.00	91.23	181.96	11,658.76	2,436.21	-2,434.48	434.43	3.37	33.8 B	3.8 L
107	146	13,874.00	90.56	180.79	11,657.29	2,530.16	-2,528.44	432.18	1.43	32.3 B	1.1 L
108	147	13,968.00	90.11	179.72	11,656.74	2,624.15	-2,622.44	431.76	1.23	31.7 B	0.3 L
109	148	14,063.00	89.89	178.65	11,656.74	2,719.14	-2,717.43	433.11	1.15	31.7 B	1.3 L
110	149	14,157.00	90.03	177.61	11,656.81	2,813.10	-2,811.38	436.18	1.12	31.8 B	4.0 L
112	150	14,250.00	89.69	177.91	11,657.03	2,906.05	-2,904.30	439.81	0.49	32.0 B	7.3 L
107	151	14,345.00	89.64	177.95	11,657.59	3,001.00	-2,999.24	443.24	0.07	32.6 B	10.3 L
105	152	14,439.00	90.95	179.85	11,657.11	3,094.98	-3,093.22	445.05	2.46	32.1 B	11.7 L
110	153	14,533.00	90.98	181.64	11,655.52	3,188.95	-3,187.19	443.83	1.90	30.5 B	10.1 L
117	154	14,628.00	90.45	180.54	11,654.34	3,283.91	-3,282.16	442.02	1.29	29.3 B	8.0 L
105	155	14,723.00	90.39	180.46	11,653.64	3,378.90	-3,377.16	441.19	0.11	28.6 B	6.7 L
123	156	14,818.00	91.12	182.56	11,652.39	3,473.84	-3,472.11	438.69	2.34	27.4 B	3.9 L
113	157	14,912.00	90.87	182.47	11,650.76	3,567.72	-3,566.01	434.56	0.28	25.8 B	0.6 R
107	158	15,007.00	90.87	183.11	11,649.31	3,662.58	-3,660.88	429.94	0.67	24.3 B	5.6 R
107	159	15,101.00	87.87	181.23	11,650.35	3,756.47	-3,754.79	426.38	3.77	25.3 B	9.6 R

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
115	160	15,196.00	87.87	179.81	11,653.88	3,851.40	-3,849.72	425.52	1.49	28.9 B	10.8 R
88	161	15,290.00	87.34	180.04	11,657.81	3,945.32	-3,943.64	425.64	0.61	32.8 B	11.1 R
107	162	15,384.00	88.21	178.94	11,661.46	4,039.24	-4,037.56	426.48	1.49	36.5 B	10.6 R
107	163	15,479.00	90.17	177.99	11,662.80	4,134.20	-4,132.51	429.02	2.29	37.8 B	8.5 R
103	164	15,574.00	90.14	177.47	11,662.54	4,229.14	-4,227.44	432.79	0.55	37.5 B	5.1 R
99	165	15,668.00	90.36	178.73	11,662.13	4,323.10	-4,321.38	435.90	1.36	37.1 B	2.3 R
99	166	15,762.00	91.37	179.40	11,660.71	4,417.08	-4,415.36	437.44	1.29	35.7 B	1.2 R
94	167	15,856.00	91.32	179.03	11,658.51	4,511.05	-4,509.32	438.72	0.40	33.5 B	0.3 R
118	168	15,950.00	91.54	178.36	11,656.16	4,605.00	-4,603.27	440.86	0.75	31.2 B	1.5 L
102	169	16,045.00	91.62	178.25	11,653.54	4,699.93	-4,698.19	443.67	0.14	28.5 B	3.9 L
52	170	16,140.00	91.88	176.62	11,650.64	4,794.81	-4,793.05	447.92	1.74	25.6 B	7.8 L
56	171	16,235.00	90.73	178.97	11,648.48	4,889.72	-4,887.95	451.57	2.75	23.5 B	11.1 L
62	172	16,330.00	88.57	180.04	11,649.06	4,984.71	-4,982.93	452.40	2.54	24.1 B	11.5 L
65	173	16,424.00	89.69	179.83	11,650.48	5,078.70	-5,076.92	452.50	1.21	25.5 B	11.2 L
84	174	16,519.00	90.59	180.09	11,650.25	5,173.69	-5,171.92	452.57	0.99	25.3 B	10.9 L
85	175	16,613.00	88.99	180.72	11,650.60	5,267.68	-5,265.91	451.90	1.83	25.6 B	9.9 L
103	176	16,708.00	87.98	181.43	11,653.11	5,362.62	-5,360.86	450.12	1.30	28.1 B	7.7 L
62	177	16,803.00	88.40	181.70	11,656.11	5,457.53	-5,455.78	447.53	0.53	31.1 B	4.7 L
60	178	16,898.00	88.77	182.06	11,658.45	5,552.44	-5,550.70	444.41	0.54	33.5 B	1.2 L
56	179	16,993.00	89.55	182.10	11,659.85	5,647.35	-5,645.62	440.97	0.82	34.8 B	2.6 R
62	180	17,088.00	88.37	181.33	11,661.57	5,742.28	-5,740.56	438.12	1.48	36.6 B	5.8 R
107	181	17,183.00	88.85	181.45	11,663.88	5,837.21	-5,835.51	435.82	0.52	38.9 B	8.5 R
108	182	17,278.00	88.71	180.72	11,665.90	5,932.16	-5,930.47	434.02	0.78	40.9 B	10.7 R
115	183	17,372.00	88.74	180.33	11,667.99	6,026.13	-6,024.44	433.16	0.42	43.0 B	11.9 R
101	184	17,466.00	88.88	180.13	11,669.94	6,120.11	-6,118.42	432.78	0.26	44.9 B	12.7 R
117	185	17,560.00	88.63	178.37	11,671.98	6,214.08	-6,212.39	434.01	1.89	47.0 B	11.8 R
99	186	17,654.00	90.84	179.78	11,672.42	6,308.06	-6,306.36	435.53	2.79	47.4 B	10.7 R
116	187	17,765.00	91.54	179.34	11,670.11	6,419.04	-6,417.34	436.38	0.74	45.1 B	10.3 R
106	188	17,859.00	91.43	178.41	11,667.68	6,512.99	-6,511.28	438.23	1.00	42.7 B	8.8 R
86	189	17,952.00	90.03	178.54	11,666.49	6,605.96	-6,604.24	440.70	1.51	41.5 B	6.7 R
138	190	18,047.00	89.58	178.60	11,666.82	6,700.94	-6,699.21	443.07	0.48	41.8 B	4.7 R
124	191	18,141.00	91.26	179.43	11,666.13	6,794.92	-6,793.19	444.69	1.99	41.1 B	3.5 R
135	192	18,237.00	90.78	180.17	11,664.42	6,890.91	-6,889.17	445.02	0.92	39.4 B	3.5 R
125	193	18,331.00	88.24	180.87	11,665.22	6,984.89	-6,983.16	444.17	2.80	40.2 B	4.8 R
118	194	18,426.00	88.49	180.97	11,667.93	7,079.83	-7,078.11	442.65	0.28	42.9 B	6.7 R
116	195	18,521.00	88.66	181.22	11,670.30	7,174.77	-7,173.06	440.83	0.32	45.3 B	8.9 R
124	196	18,615.00	88.35	180.74	11,672.75	7,268.72	-7,267.01	439.22	0.61	47.7 B	10.8 R
96	197	18,710.00	88.35	180.36	11,675.48	7,363.67	-7,361.97	438.31	0.40	50.5 B	12.1 R
117	198	18,804.00	88.60	180.55	11,677.98	7,457.63	-7,455.93	437.57	0.33	53.0 B	13.3 R
125	199	18,899.00	89.44	181.14	11,679.61	7,552.60	-7,550.91	436.17	1.08	54.6 B	15.0 R
134	200	18,994.00	89.44	180.76	11,680.54	7,647.57	-7,645.89	434.59	0.40	55.5 B	17.0 R
115	201	19,088.00	90.03	178.67	11,680.97	7,741.57	-7,739.88	435.06	2.31	56.0 B	16.9 R
128	202	19,184.00	91.74	178.51	11,679.49	7,837.53	-7,835.84	437.42	1.79	54.5 B	14.9 R
122	203	19,278.00	92.44	177.85	11,676.06	7,931.43	-7,929.73	440.40	1.02	51.1 B	12.3 R

Deviation Surveys (Vertical Section Azimuth : 179.77)											
Gamma	Survey NUM	Survey MD	INC	AZM	TVDRT	SECT	N-S	E-W	DLS	Above / - Below	Right / - Left
127	204	19,373.00	92.55	177.65	11,671.93	8,026.28	-8,024.56	444.13	0.24	46.9 B	9.0 R
137	205	19,468.00	91.23	178.18	11,668.79	8,121.18	-8,119.45	447.58	1.50	43.8 B	5.9 R
119	206	19,562.00	91.57	177.74	11,666.50	8,215.10	-8,213.36	450.93	0.59	41.5 B	2.9 R
109	207	19,656.00	91.68	177.04	11,663.83	8,308.98	-8,307.22	455.21	0.75	38.8 B	1.0 L
58	208	19,750.00	91.65	177.86	11,661.10	8,402.87	-8,401.09	459.39	0.87	36.1 B	4.8 L
66	209	19,845.00	89.83	178.33	11,659.87	8,497.81	-8,496.03	462.54	1.98	34.9 B	7.5 L
64	210	19,940.00	88.66	179.86	11,661.12	8,592.79	-8,591.00	464.05	2.03	36.1 B	8.7 L
88	211	20,034.00	88.43	179.29	11,663.51	8,686.76	-8,684.97	464.74	0.65	38.5 B	9.0 L
115	212	20,128.00	88.24	178.99	11,666.24	8,780.72	-8,778.92	466.15	0.38	41.2 B	10.0 L
100	213	20,223.00	87.93	178.23	11,669.42	8,875.64	-8,873.84	468.46	0.86	44.4 B	11.9 L
110	214	20,317.00	87.65	177.76	11,673.04	8,969.53	-8,967.71	471.74	0.58	48.0 B	14.9 L
61	215	20,411.00	89.30	179.65	11,675.54	9,063.47	-9,061.64	473.86	2.67	50.5 B	16.6 L
108	216	20,505.00	88.94	179.21	11,676.99	9,157.46	-9,155.63	474.80	0.60	52.0 B	17.2 L
125	217	20,600.00	89.30	179.37	11,678.45	9,252.44	-9,250.61	475.98	0.41	53.4 B	18.0 L
115	218	20,695.00	90.53	179.73	11,678.59	9,347.44	-9,345.60	476.72	1.35	53.6 B	18.3 L
140	219	20,789.00	91.29	179.68	11,677.09	9,441.43	-9,439.59	477.21	0.81	52.1 B	18.4 L
69	220	20,884.00	91.54	179.38	11,674.75	9,536.40	-9,534.56	477.99	0.41	49.7 B	18.8 L
75	221	20,978.00	91.23	180.89	11,672.48	9,630.37	-9,628.53	477.76	1.64	47.5 B	18.2 L
124	222	21,072.00	91.85	181.30	11,669.95	9,724.31	-9,722.47	475.97	0.79	45.0 B	16.0 L
85	223	21,166.00	89.27	181.72	11,669.03	9,818.25	-9,816.43	473.49	2.78	44.0 B	13.2 L
67	224	21,260.00	88.96	181.57	11,670.48	9,912.19	-9,910.38	470.79	0.37	45.5 B	10.1 L
136	225	21,355.00	88.60	181.55	11,672.51	10,007.12	-10,005.32	468.21	0.38	47.5 B	7.2 L
121	226	21,450.00	89.22	181.74	11,674.31	10,102.05	-10,100.27	465.48	0.68	49.3 B	4.0 L
120	227	21,544.00	88.46	181.08	11,676.22	10,195.99	-10,194.22	463.17	1.07	51.2 B	1.4 L
105	228	21,639.00	88.07	180.55	11,679.09	10,290.93	-10,289.16	461.82	0.69	54.1 B	0.4 R
137	229	21,733.00	87.90	179.84	11,682.40	10,384.87	-10,383.10	461.50	0.78	57.4 B	1.1 R
135	230	21,828.00	88.74	180.74	11,685.18	10,479.83	-10,478.06	461.02	1.30	60.2 B	1.9 R
88	231	21,921.00	90.59	180.79	11,685.73	10,572.81	-10,571.05	459.78	1.99	60.7 B	3.6 R
89	232	22,034.00	88.43	179.31	11,686.69	10,685.79	-10,684.03	459.68	2.32	61.7 B	4.1 R
	PTB	22,091.00	88.43	179.31	11,688.26	10,742.77	-10,741.01	460.36	0.00	63.3 B	3.6 R