

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 049 - 02494 County Marion District Lincoln
Quad Shinnston Pad Name Sands Pad Field/Pool Name Marcellus
Farm name XTO Energy Inc. Well Number Sands Unit B 7H
Operator (as registered with the OOG) XTO Energy Inc.
Address PO Box 1008 City Jane Lew State WV Zip 26378

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4368409.072 Easting 559060.938
Landing Point of Curve Northing 4368359.773 Easting 559007.024
Bottom Hole Northing 4365457.112 Easting 561674.942

Elevation (ft) 1,230' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
OBM, Fluid Loss, Wetting Agent, Viscosifier, Barite, Emulsifier.

Date permit issued 3/20/2019 Date drilling commenced 8/6/2019 Date drilling ceased 2/6/2020
Date completion activities began 6/15/2021 Date completion activities ceased 10/12/2021
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 120', 200' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,450' & 1,800' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 420' - 427' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:
Bryan Hester
01/21/2022

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API 47-049 - 02494 Farm name XTO Energy Inc. Well number Sands Unit B 7H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	24"	40'	New	PE&B / 95#		N
Surface	17 1/2"	13 3/8"	525'	New	H-40 / 48#		N
Coal							
Intermediate 1	12 3/8"	9 5/8"	3,125'	New	J-55 / 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	20,888'	New	P-110 / 20#		Est. TOC 5,000'
Tubing							
Packer type and depth set							

Comment Details Conductor - cement poured directly into annulus. Surface - pumped grout job, received returns.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	90				0	8
Surface	A	475	15.6	1.21	574.75	0	8
Coal							
Intermediate 1	A	1,115	15.6	1.19	1,326.85	0	8
Intermediate 2							
Intermediate 3							
Production	H	510 / 2,225	15.2 / 15.6	1.10 / 1.57	561 / 3,493.25	Est. TOC 5,000'	8
Tubing							

Drillers TD (ft) 20,939' Loggers TD (ft) 20,914'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7,087'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 Surface - Every 120'
 Intermediate - Every 120'
 Production - Every 80'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Stage	Perf Date	Perf from MD ft.	Perf to MD ft.	Number of Perfs	Formation(s)
1	6/30/2021	20,571	20,721	36	Marcellus
2	6/30/2021	20,371	20,521	36	Marcellus
3	7/1/2021	20,171	20,321	36	Marcellus
4	7/2/2021	19,971	20,121	36	Marcellus
5	7/2/2021	19,771	19,921	36	Marcellus
6	7/2/2021	19,571	19,721	36	Marcellus
7	7/2/2021	19,371	19,521	36	Marcellus
8	7/4/2021	19,171	19,321	36	Marcellus
9	7/5/2021	18,971	19,121	36	Marcellus
10	7/5/2021	18,771	18,921	36	Marcellus
11	7/5/2021	18,571	18,721	36	Marcellus
12	7/5/2021	18,371	18,521	36	Marcellus
13	7/6/2021	18,171	18,321	36	Marcellus
14	7/10/2021	17,971	18,121	36	Marcellus
15	7/10/2021	17,771	17,921	36	Marcellus
16	7/10/2021	17,571	17,721	36	Marcellus
17	7/11/2021	17,371	17,521	36	Marcellus
18	7/11/2021	17,171	17,321	36	Marcellus
19	7/13/2021	16,971	17,121	36	Marcellus
20	7/13/2021	16,771	16,921	36	Marcellus
21	7/13/2021	16,571	16,721	36	Marcellus
22	7/14/2021	16,371	16,521	36	Marcellus
23	7/25/2021	16,171	16,319	36	Marcellus
24	7/26/2021	15,971	16,119	36	Marcellus
25	7/28/2021	15,771	15,919	36	Marcellus
26	8/3/2021	15,571	15,719	36	Marcellus
27	8/4/2021	15,371	15,519	36	Marcellus
28	8/5/2021	15,171	15,319	36	Marcellus
29	8/6/2021	14,971	15,119	36	Marcellus
30	8/7/2021	14,771	14,919	36	Marcellus
31	8/8/2021	14,571	14,719	36	Marcellus
32	8/10/2021	14,371	14,519	36	Marcellus
33	8/11/2021	14,171	14,319	36	Marcellus
34	8/12/2021	13,971	14,119	36	Marcellus
35	8/13/2021	13,771	13,919	36	Marcellus
36	8/14/2021	13,571	13,719	36	Marcellus
37	8/15/2021	13,371	13,519	36	Marcellus
38	8/16/2021	13,171	13,319	36	Marcellus
39	8/17/2021	12,971	13,119	36	Marcellus
40	8/18/2021	12,771	12,919	36	Marcellus
41	8/19/2021	12,571	12,719	36	Marcellus
42	8/20/2021	12,371	12,519	36	Marcellus
43	8/22/2021	12,171	12,319	36	Marcellus
44	8/25/2021	11,971	12,119	36	Marcellus
45	8/25/2021	11,771	11,919	36	Marcellus
46	8/27/2021	11,571	11,719	36	Marcellus
47	8/27/2021	11,371	11,519	36	Marcellus
48	8/28/2021	11,171	11,319	36	Marcellus
49	8/30/2021	10,971	11,119	36	Marcellus
50	8/30/2021	10,771	10,919	36	Marcellus
51	9/1/2021	10,571	10,719	36	Marcellus
52	9/1/2021	10,371	10,519	36	Marcellus
53	9/3/2021	10,171	10,319	36	Marcellus
54	9/3/2021	9,971	10,119	36	Marcellus
55	9/5/2021	9,771	9,919	36	Marcellus

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Stage	Stimulation Date	Avg. Pump Rate (BPM)	Avg. Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen
1	06/30/2021	82.61	8980	7058	4372.00	403600	12515	0
2	07/01/2021	80.85	8992	8554	4612.00	395720	13153	0
3	07/02/2021	84.35	9115	7107	4841.00	404000	13263	0
4	07/02/2021	86.69	9005	7098	4922.00	399380	13014	0
5	07/02/2021	87.14	9064	6014	5149.00	400860	13010	0
6	07/02/2021	85.73	9110	7182	4886.00	401249	12941	0
7	07/04/2021	88.00	9132	7458	4957.00	401800	12510	0
8	07/05/2021	85.42	8889	7332	4881.00	403220	12915	0
9	07/05/2021	85.69	8969	6794	4696.00	398800	12672	0
10	07/05/2021	90.12	9139	5323	4881.00	399100	12522	0
11	07/06/2021	92.86	9135	5950	4829.00	401400	12574	0
12	07/06/2021	89.74	8994	6894	4829.00	396340	12715	0
13	07/10/2021	86.59	9010	7793	4930.00	401040	12586	0
14	07/10/2021	89.67	9154	6613	5170.65	399300	12197	0
15	07/10/2021	88.59	9194	6983	5240.39	401080	12325	0
16	07/11/2021	86.51	8998	7391	5003.00	399560	12623	0
17	07/11/2021	92.26	9147	6512	5170.16	399480	11838	0
18	07/13/2021	91.54	9025	6194	4836.00	418790	13010	0
19	07/13/2021	91.28	9060	6519	4951.94	398440	12585	0
20	07/13/2021	94.27	9193	5920	4746.42	401620	12639	0
21	07/14/2021	95.14	9135	6064	5262.56	400920	12831	0
22	07/14/2021	94.54	8993	5801	4816.00	412120	12940	0
23	7/25/2021	84.10	8909	5796	4714.00	410318	12360	0
24	7/26/2021	87.50	8968	5432	4975.00	410614	12231	0
25	7/28/2021	87.50	9063	6254	4565.00	299829	10243	0
26	8/3/2021	86.80	8823	6048	5748.00	396245	12276	0
27	8/4/2021	89.60	8850	4680	5676.00	396407	12225	0
28	8/5/2021	90.00	8909	6013	5523.00	396641	11845	0
29	8/6/2021	90.40	8945	5760	5307.00	396395	11928	0
30	8/7/2021	91.30	8774	6338	4984.00	399160	12171	0
31	8/8/2021	93.90	8722	6020	5002.00	399365	12200	0
32	8/10/2021	98.10	8921	5646	5289.00	399216	12501	0
33	8/11/2021	97.70	8922	6098	5385.00	399269	12194	0
34	8/12/2021	96.80	8953	6195	5350.00	398871	12211	0
35	8/13/2021	90.70	8875	6382	5528.00	398972	13047	0
36	8/14/2021	91.10	8948	6201	4957.00	398393	12567	0
37	8/15/2021	93.70	8925	6530	5450.00	399239	12223	0
38	8/16/2021	94.90	9015	4563	5343.00	399102	12192	0
39	8/17/2021	95.30	8913	5944	5559.00	400602	12166	0
40	8/18/2021	93.40	8619	6217	5375.00	287029	12189	0
41	8/19/2021	95.80	8556	6321	5504.00	398952	12069	0
42	8/20/2021	94.00	8625	6803	4800.00	398982	12048	0
43	8/22/2021	89.80	8734	5674	5476.00	399788	12363	0
44	8/25/2021	86.50	8329	6766	5542.00	399231	11672	0
45	8/25/2021	98.30	8689	6567	5053.00	399433	11558	0
46	8/27/2021	94.40	8607	6175	5660.00	398017	11502	0
47	8/27/2021	93.20	8126	5832	5371.00	399217	11152	0
48	8/28/2021	99.20	8160	5673	4931.00	399216	11035	0
49	8/30/2021	99.60	8196	5774	5583.00	399316	11330	0
50	8/30/2021	97.10	8289	4499	5514.00	398209	11129	0
51	9/1/2021	89.30	8828	4414	4568.00	398077	11144	0
52	9/1/2021	89.90	8294	5989	4616.00	399135	11140	0
53	9/3/2021	99.40	8226	6313	5323.00	399064	11779	0
54	9/3/2021	97.80	8296	5292	5163.00	398959	11727	0
55	9/5/2021	101.10	7939	6002	5185.00	399237	11624	0
56	9/5/2021	98.50	8150	5803	5369.00	399141	11706	0
57	9/7/2021	100.80	8081	5964	5333.00	399120	11794	0
58	9/7/2021	99.60	8342	6275	5447.00	399424	11825	0

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Well
API

Sands Unit B 7H
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Lithology/Formation Name	Top Depth TVD	Bottom Depth TVD	Top Depth MD	Bottom Depth MD	Describe Rock Type and Record Quantity and Type of Fluid (Freshwater, Brine, Oil, Gas, H2S, ETC)
Dirt	0	31	0	31	
Sandstone	31	143	31	143	
Shale	143	279	143	279	
Sandstone	279	420	279	420	
Coal	420	427	420	427	
Shale	427	542	427	542	
SDY Shale	542	629	542	629	
Red Rock	629	639	629	639	
SDY Shale	639	659	639	659	
Red Rock	659	704	659	704	
Shale	704	969	704	969	
Sandstone	969	1,009	969	1,009	
SDY Shale	1,009	1,409	1,009	1,409	
Sandstone	1,409	1,539	1,409	1,539	
Shale	1,539	1,819	1,539	1,819	
Sandstone	1,819	1,899	1,819	1,899	
Shale	1,899	2,039	1,899	2,039	
Sandstone	2,039	2,109	2,039	2,109	
SDY Shale	2,109	2,309	2,109	2,309	
Sandstone	2,309	2,389	2,309	2,389	
SDY Shale	2,389	2,519	2,389	2,519	
Sandstone	2,519	2,549	2,519	2,549	
SDY Shale	2,549	2,629	2,549	2,629	
Sandstone	2,629	2,739	2,629	2,739	
Shale	2,739	2,889	2,739	2,889	
Sandstone	2,889	2,919	2,889	2,919	
SDY Shale	2,919	3,154	2,919	3,154	
Shale	3,154	3,989	3,154	3,989	
Sandstone	3,989	4,259	3,989	4,259	
Shale	4,259	4,469	4,259	4,469	
SDY Shale	4,469	4,638	4,469	4,638	
Sandstone	4,638	4,679	4,638	4,679	
SDY Shale	4,679	5,209	4,679	5,209	
Shale	5,209	5,319	5,209	5,319	
Sandstone	5,319	5,459	5,319	5,459	
Shale	5,459	7,219	5,459	7,282	
Burket Shale	7,230	7,256	7,295	7,326	
Tully Limestone	7,256	7,308	7,326	7,389	
Hamilton Shale	7,308	7,450	7,389	7,628	
Marcellus	7,450		7,628	20,939	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/25/2021
Job End Date:	9/13/2021
State:	West Virginia
County:	Marion
API Number:	47-049-02494-00-00
Operator Name:	XTO Energy/ExxonMobil
Well Name and Number:	Sands Unit B 7H
Latitude:	39.46324100
Longitude:	-80.31344500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,557
Total Base Water Volume (gal):	32,640,020
Total Base Non Water Volume:	0



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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Cabot	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	90.90025	None
Sand	UPP	Proppant					
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	8.60184	None
HCL Acid (15%)	UPP	Acidizing					
			Hydrochloric Acid	7647-01-0	7.50000	0.03243	None
Scale Hib PE-18 (Summer)	UPP	Scale Inhibitor					
			Polyacrylate	Proprietary	30.00000	0.00845	None
			Hydrotreated distillate	Proprietary	30.00000	0.00845	None
			Ammonium sulfate	7783-20-2	30.00000	0.00845	None
			Proprietary Scale Inhibitor	Proprietary	30.00000	0.00197	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00141	None
			Surfactant blend	Proprietary	5.00000	0.00141	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00028	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00028	None
			Sodium chloride	7647-14-5	5.00000	0.00015	None

			Phosphoric Acid Salt	Proprietary	5.00000	0.00015	None
			Modified thiourea polymer	Proprietary	30.00000	0.00003	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00003	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
FR-3	UPP	Friction reducer					
			Hydrotreated Petroleum Distillate	64742-47-8	20.00000	0.00886	None
			Ammonium Chloride	12125-02-9	1.50000	0.00207	None
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00066	None
			Alcohol Ethoxylate Surfactants	68551-12-2	1.00000	0.00044	None
MBC 10:5	UPP	Biocide					
			Glutaraldehyde	111-30-8	5.00000	0.00125	None
			Alkyl dimethyl benzyl ammonium chloride (C 12-16)	68424-85-1	10.00000	0.00074	None
			Ethanol	64-17-5	5.00000	0.00032	None
Unihib G	UPP	Acid inhibitor					
			Methanol	67-56-1	5.00000	0.00193	None
			Butyl diglycol	112-34-5	75.00000	0.00017	None
			Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00011	None
			Formaldehyde	50-00-0	1.00000	0.00001	None
			Thiourea	62-56-6	1.00000	0.00000	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Hydrotreated distillate	Proprietary	30.00000	0.00845	
			Polyacrylate	Proprietary	30.00000	0.00845	
			Ammonium sulfate	7783-20-2	30.00000	0.00845	
			Ammonium Chloride	12125-02-9	1.50000	0.00207	
			Methanol	67-56-1	5.00000	0.00193	
			Surfactant blend	Proprietary	5.00000	0.00141	
			Ethoxylated alcohol	Proprietary	5.00000	0.00141	
			Glutaraldehyde	111-30-8	5.00000	0.00125	
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00066	
			Alcohol Ethoxylate Surfactants	68551-12-2	1.00000	0.00044	
			Ethanol	64-17-5	5.00000	0.00032	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00028	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00028	
			Sodium chloride	7647-14-5	5.00000	0.00015	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00015	
			Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00011	
			Modified thiourea polymer	Proprietary	30.00000	0.00003	

		Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00003	
		Formaldehyde	50-00-0	1.00000	0.00001	
		Propargyl alcohol	107-19-7	5.00000	0.00001	
		Hexadecene	629-73-2	5.00000	0.00001	
		Ethoxylated alcohols	Proprietary	5.00000	0.00001	
		Thiourea	62-56-6	1.00000	0.00000	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

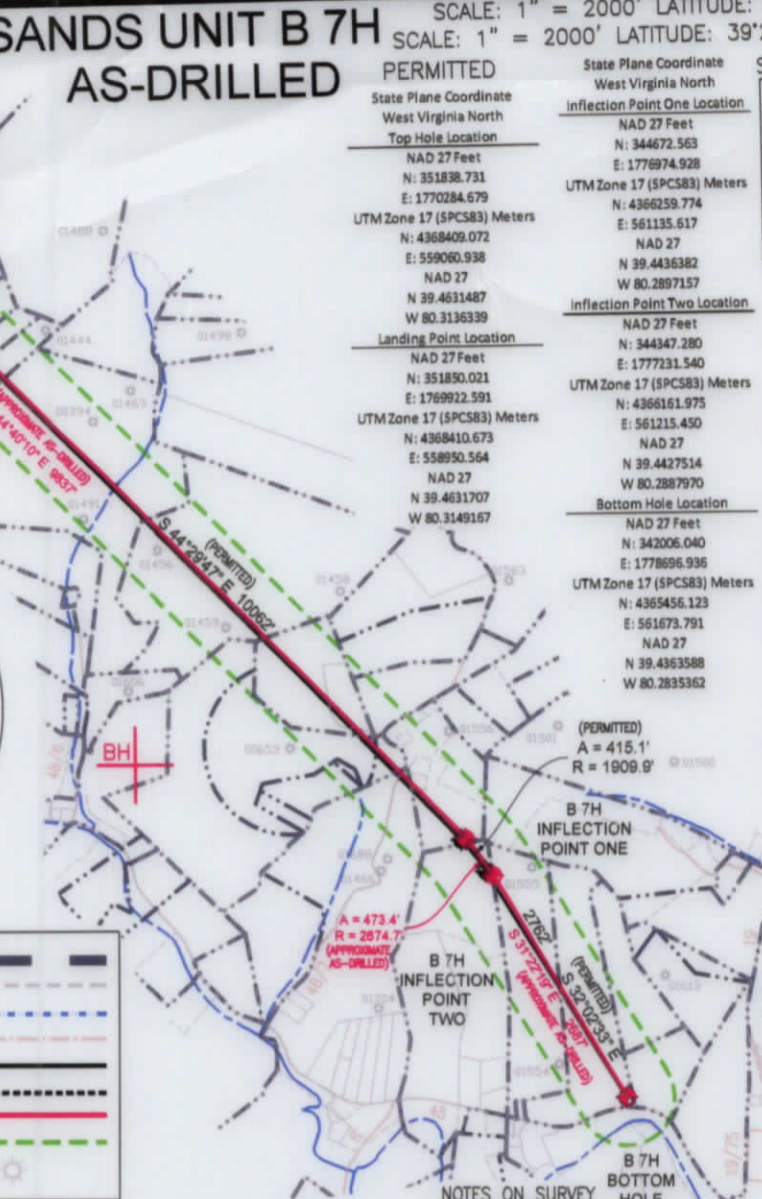
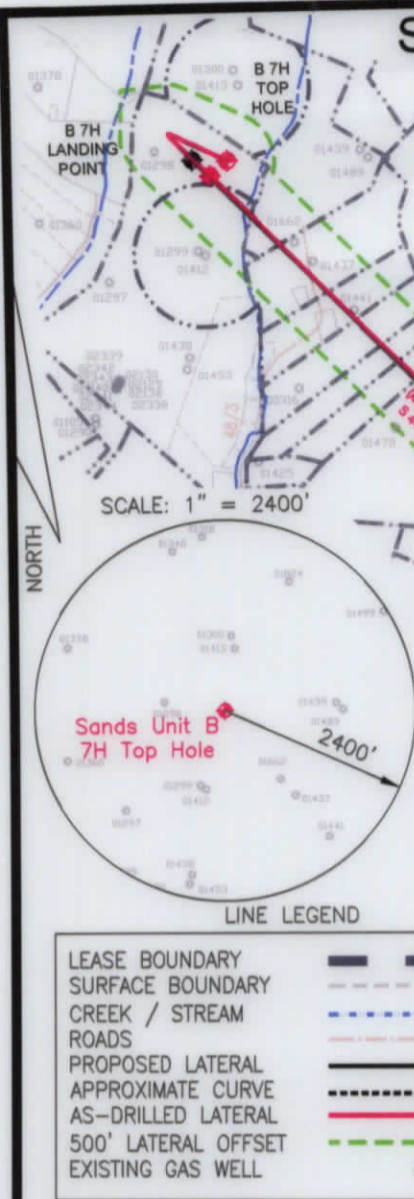
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BOTTOM HOLE 9414' TOP HOLE 6148'

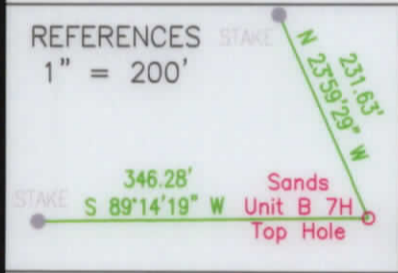
SANDS UNIT B 7H AS-DRILLED

SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)



SCALE: 1" = 100'

State Plane Coordinate West Virginia North	Inflection Point One Location
NAD 27 Feet	NAD 27 Feet
N: 344672.563	N: 344683.813
E: 1776974.928	E: 1777020.677
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4366259.774	N: 4366263.434
E: 561135.617	E: 561149.560
NAD 27	NAD 27
N 39.4436382	N 39.4436702
W 80.2897157	W 80.2895534
Inflection Point Two Location	Inflection Point Two Location
NAD 27 Feet	NAD 27 Feet
N: 344347.280	N: 344303.540
E: 1777231.540	E: 1777301.850
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4366161.975	N: 4366149.006
E: 561215.450	E: 561237.093
NAD 27	NAD 27
N 39.4427514	N 39.4426330
W 80.2887970	W 80.2885467
Bottom Hole Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet
N: 342006.040	N: 342009.220
E: 1778696.936	E: 1778700.766
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4365456.123	N: 4365457.112
E: 561673.791	E: 561674.942
NAD 27	NAD 27
N 39.4363588	N 39.4364532
W 80.2835362	W 80.2833303



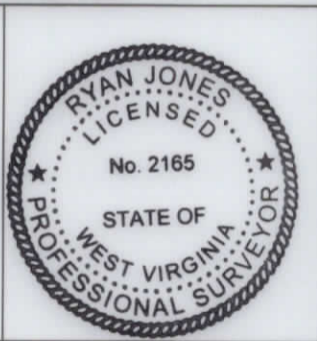
1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH W NORTH ZONE NAD 83.
4. WELL ELEVATION ESTABLISHED BY RTK GPS NAVD 88.
5. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN AUGUST 2021 AND FILES PROVIDED BY XTO ENERGY INC.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.

JONES CONSULTANTS 2402 PENNSYLVANIA 66 DELMONT, PA 15626
 (724) 757-2417 www.jonesconsultant.com SHEET 1 OF 2

FILE #: JC2017-26
 DRAWING #: SANDS B 7H AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: RTK GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ P.S.: 2165



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: LOWER WEST FORK RIVER (0502000206)
 COUNTY/DISTRICT: MARION / LINCOLN
 SURFACE OWNER: XTO ENERGY INC
 OIL & GAS ROYALTY OWNER: XTO ENERGY INC

TARGET FORMATION: MARCELLUS

WELL OPERATOR: XTO ENERGY INC.
 Address: 190 THORN HILL ROAD
 City: WARRENDALE State: PA Zip Code: 15086

DATE: 8/5/2021

OPERATOR'S WELL #: SANDS UNIT B 7H

API WELL #: 47 049 02494
 STATE COUNTY PERMIT

ELEVATION: 1,230' (EXISTING GRADE)
 QUADRANGLE: SHINSTON 7.5'

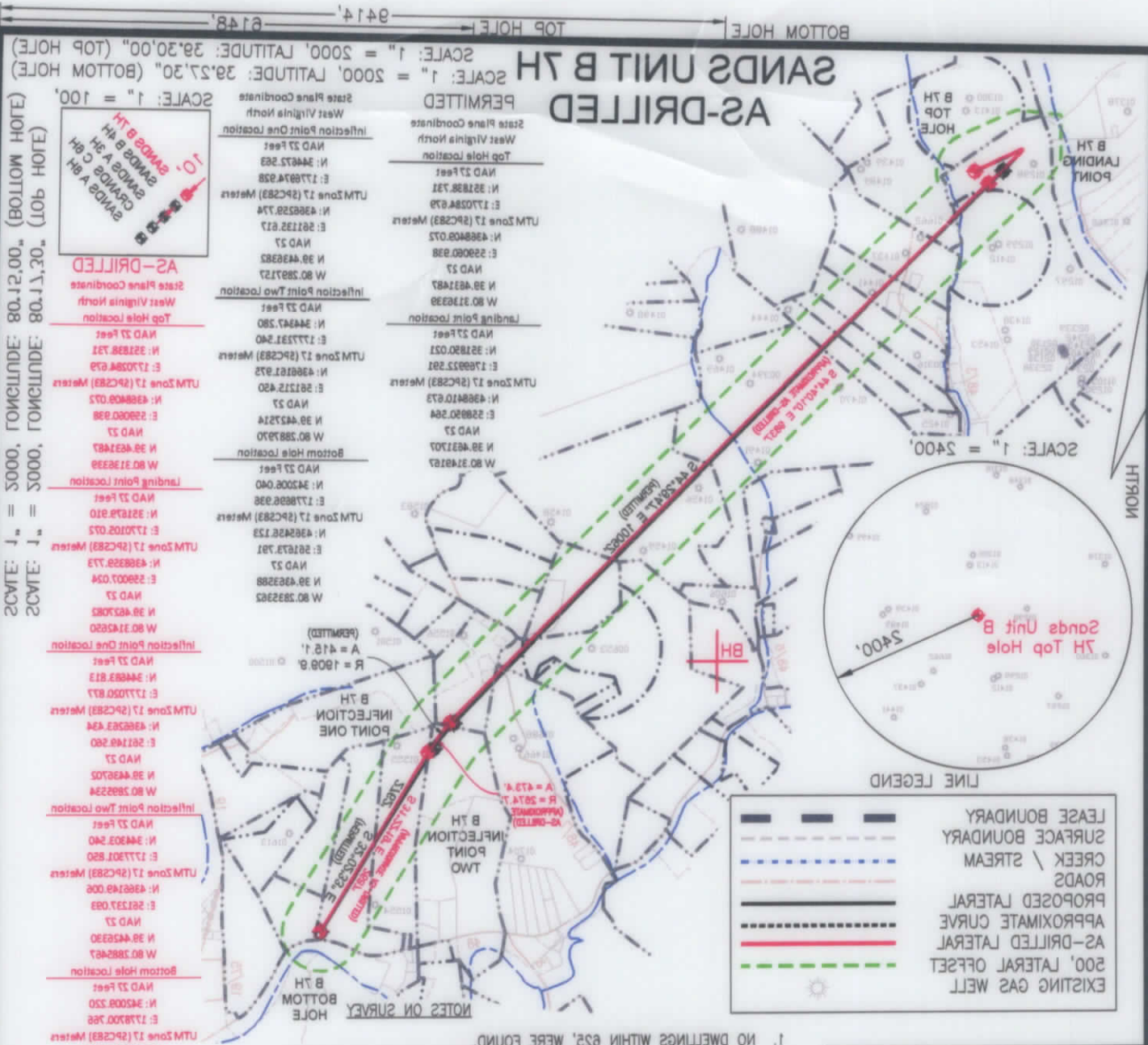
ACREAGE: 105.34±
 ACREAGE: 970.0±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

ESTIMATED DEPTH: 7,573' (TVD), 20,939' (TMD) AS-DRILLED

DESIGNATED AGENT: GARY BEALL
 Address: P.O. BOX 1008
 City: JANE LEW State: WV Zip Code: 26378

01/21/2022



NOTES ON SURVEY

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID.
- NORTH W/ NORTH ZONE NAD 83.
- WELL ELEVATION ESTABLISHED BY RTK GPS NAD 88.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN AUGUST 2021 AND FILED PROVIDED BY XTO ENERGY INC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.

STATE PLANE COORDINATES
West Virginia North
Top Hole Location
NAD 23 Feet
N: 34481.280
E: 177731.240
UTM Zone 17 (SPCS83) Meter
N: 486812.125
E: 281122.817
NAD 23
W: 802892.170
Bottom Hole Location
NAD 23 Feet
N: 34481.280
E: 177731.240
UTM Zone 17 (SPCS83) Meter
N: 486812.125
E: 281122.817
NAD 23
W: 802892.170

REFERENCES
1" = 200'

STAKE 2 80'x14" W Unit B 7H Top Hole
STAKE 1 23'x28' 531' 02"

FILE #: 1C2017-28
DRAWING #: SANDS B 7H AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: RTK GPS

DATE: 8/2/2021

OPERATOR'S WELL #: SANDS UNIT B 7H

API WELL #: 47049 STATE COUNTY PERMIT 02494

ELEVATION: 1230' (EXISTING GRADE)
QUADRANGLE: SHINGSTON 7.2
ACRAGE: 108.34±
ACRAGE: 970.0±

WATERSHED: LOWER WEST FORK RIVER (050200208)
COUNTY: MARION / LINCOLN
SURVEYED BY: XTO ENERGY INC
OIL & GAS ROYALTY OWNER: XTO ENERGY INC

WELL TYPE: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WELLSHED: LOWER WEST FORK RIVER (050200208)
COUNTY: MARION / LINCOLN
SURVEYED BY: XTO ENERGY INC
OIL & GAS ROYALTY OWNER: XTO ENERGY INC

TARGET FORMATION: MARCELLUS
WELL OPERATOR: XTO ENERGY INC
Address: 190 THORN HILL ROAD
City: WARRENDALE State: PA Zip Code: 15086

DESIGNATED AGENT: GARY BEALL
Address: P.O. BOX 1008
City: JANE LEW State: WV Zip Code: 26378

ESTIMATED DEPTH: 2523' (TMD) AS-DRILLED
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: _____
P.E.: S102





SANDS UNIT B 7H AS-DRILLED

LINE LEGEND

LEASE BOUNDARY	—
SURFACE BOUNDARY	- - - -
CREEK / STREAM	~ ~ ~ ~
ROADS	—
PROPOSED LATERAL	—
APPROXIMATE CURVE	- - - -
AS-DRILLED LATERAL	—
500' LATERAL OFFSET	- - - -

SANDS UNIT B 7H		
LEASE	LESSOR	MINERAL ACREAGE
1)	TRIO PETROLEUM CORP	138.05
2)	WACO OIL AND GAS CO. INC.	35.185
3)	WACO OIL AND GAS CO. INC.	85.25
4)	WILLIAM E. MOCKLER, ET AL	30.25
5)	JAMES C. WEEKLY, JR.	18.41
6)	LACY BOGGESS, ET VIR	18.00
7)	O. JOAN WEEKLY	17.00
8)	JOANNE EDGELL	15.52
9)	PATRICIA A. JUDY, ET AL	130.00
10)	WACO OIL AND GAS CO. INC.	86.00
11)	TYLER SHEPHARD	25.00
12)	BERTA PEARL LAUGHLIN	31.053
13)	BERTA PEARL LAUGHLIN, ET AL	80.00
14)	WACO OIL AND GAS CO. INC., ET AL	91.49
15)	VIVIAN B. SHAFER REVOCABLE TRUST, ET AL	24.00
16)	XTO ENERGY INC	68.160
17)	MARY E. NEWBROUGH	38.096
18)	BETTY BROWN, ET AL	38.500

AS-DRILLED		
	SURFACE OWNER	TAX PARCEL
A	WEEKLY FAMILY CEMETERY	11-53-28.1
B	JAMES B. WEEKLY	11-53-29.2
C	VIOLET M. JETT	11-51-13.5
D	SUSAN E. JETT	11-51-13.4
E	CHAD M. LONG	11-51-13.3
F	VIOLET M. JETT	11-51-12

AS-DRILLED		
	State Plane Coordinate	West Virginia North
Top Hole Location	NAD 27 Feet	N: 351838.731
	E: 1770284.679	
UTM Zone 17 (SPCS83) Meters	N: 4368409.072	E: 559060.938
	NAD 27	N 39.4631487
	W 80.3136339	
Landing Point Location	NAD 27 Feet	N: 351679.910
	E: 1770105.072	
UTM Zone 17 (SPCS83) Meters	N: 4368359.773	E: 559007.024
	NAD 27	N 39.4627082
	W 80.3142650	
Inflection Point One Location	NAD 27 Feet	N: 344683.813
	E: 1777020.877	
UTM Zone 17 (SPCS83) Meters	N: 4366263.434	E: 561149.560
	NAD 27	N 39.4436702
	W 80.2895534	
Inflection Point Two Location	NAD 27 Feet	N: 344303.540
	E: 1777301.850	
UTM Zone 17 (SPCS83) Meters	N: 4366149.006	E: 561237.093
	NAD 27	N 39.4426330
	W 80.2885467	
Bottom Hole Location	NAD 27 Feet	N: 342009.220
	E: 1778700.766	
UTM Zone 17 (SPCS83) Meters	N: 4365457.112	E: 561674.942
	NAD 27	N 39.4364532
	W 80.2833303	

PERMITTED

State Plane Coordinate
West Virginia North
Top Hole Location
NAD 27 Feet
N: 351838.731
E: 1770284.679

UTM Zone 17 (SPCS83) Meters
N: 4368409.072
E: 559060.938
NAD 27
N 39.4631487
W 80.3136339

Landing Point Location
NAD 27 Feet
N: 351850.021
E: 1769922.591

UTM Zone 17 (SPCS83) Meters
N: 4368410.673
E: 558950.564
NAD 27
N 39.4631707
W 80.3149167

Inflection Point One Location
NAD 27 Feet
N: 344672.563
E: 1776974.928

UTM Zone 17 (SPCS83) Meters
N: 4366259.774
E: 561135.617
NAD 27
N 39.4436382
W 80.2897157

Inflection Point Two Location
NAD 27 Feet
N: 344347.280
E: 1777231.540

UTM Zone 17 (SPCS83) Meters
N: 4366161.975
E: 561215.450
NAD 27
N 39.4427514
W 80.2887970

Bottom Hole Location
NAD 27 Feet
N: 342006.040
E: 1778696.936

UTM Zone 17 (SPCS83) Meters
N: 4365456.123
E: 561673.791
NAD 27
N 39.4363588
W 80.2835362

NOTES ON SURVEY

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
- WELL ELEVATION ESTABLISHED BY RTK GPS NAVD 88.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN AUGUST 2021 AND FILES PROVIDED BY XTO ENERGY INC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.

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(724) 757 - 2417 www.jonesconsultant.com



SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT			
SANDS UNIT B 7H			
Drawn By:	Date:	LINCOLN DISTRICT	
JRV	8/5/21	MARION COUNTY, WEST VIRGINIA	
Scale:	1" = 1500'	Sheet:	File No.:
AFE #	1004836	SHEET 2 OF 2	JC2017-26

01/21/2022



AS-DRILLED SANDS UNIT B 7H

LINE LEGEND

- LEASE BOUNDARY
- SURFACE BOUNDARY
- CREEK \ STREAM
- ROADS
- PROPOSED LATERAL
- APPROXIMATE CURVE
- AS-DRILLED LATERAL
- 500' LATERAL OFFSET

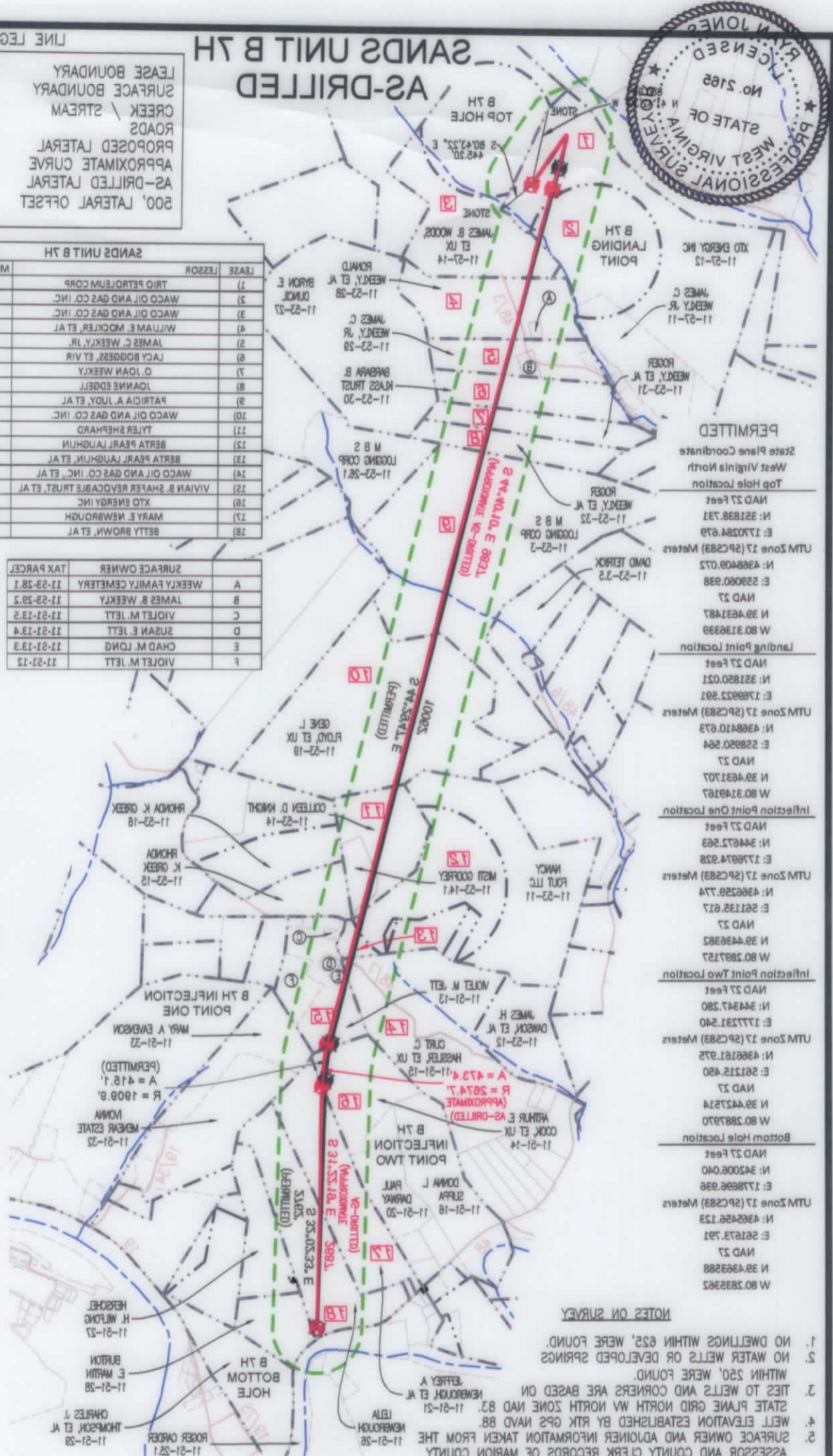
SANDS UNIT B 7H	
181	BETTY BROWN, ET AL
171	MARY E NEWBROUGH
161	XTO ENERGY INC
151	VIVIAN B. SHAFER REVOCABLE TRUST, ET AL
141	WACO OIL AND GAS CO. INC., ET AL
131	BERTA PEARL LAUGHLIN, ET AL
121	BERTA PEARL LAUGHLIN
111	TYLER SHEPHARD
101	WACO OIL AND GAS CO. INC.
91	PATRICIA A. LUDY, ET AL
81	JOANNE EDGELL
71	O JOAN WEEKLY
61	LACY BOGGETS, ET VIR
51	JAMES C. WEEKLY, JR.
41	WILLIAM E. MCKLER, ET AL
31	WACO OIL AND GAS CO. INC.
21	WACO OIL AND GAS CO. INC.
11	TRIO PETROLEUM CORP
MINERAL ACRES	138.05

TAX PARCEL	SURFACE OWNER
A	WEEKLY FAMILY CEMETERY
B	JAMES B. WEEKLY
C	VIOLET M. TETT
D	SUSAN E. TETT
E	CHAD M. LONG
F	VIOLET M. TETT

AS-DRILLED

State Plane Coordinates
West Virginia North
Top Hole Location

NAD 23 Feet	11-23-28.1
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Bottom Hole Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Inflection Point One Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Inflection Point Two Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
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Bottom Hole Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2



PERMITTED

State Plane Coordinates
West Virginia North
Top Hole Location

NAD 23 Feet	11-23-28.1
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Landing Point Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Inflection Point One Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Inflection Point Two Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
E: 173028.679	11-23-29.2
UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2
Bottom Hole Location	11-23-29.2
NAD 23 Feet	11-23-29.2
N: 32188.731	11-23-29.2
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UTM Zone 17 (29C283) Meters	11-23-29.2
N: 438840.072	11-23-29.2
E: 229060.938	11-23-29.2
NAD 23	11-23-29.2
N: 394834.87	11-23-29.2
W 80 313939	11-23-29.2

- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
 - TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
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www.jonesconsultants.com (724) 757-2417

SANDS UNIT B 7H

SURFACE AND LESSOR EXHIBIT

SUPPLEMENTAL

Drawn by:	JRV
Date:	8/21/21
Scale:	1" = 1500'
Sheet:	1004838
File No.:	102017-28
Project:	SHEET 2 OF 2
Location:	MARION COUNTY, WEST VIRGINIA
District:	LINCOLN DISTRICT

