

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

API 47 - 073 - 02563 County Pleasants District Union
Quad Bens Run Pad Name P3 Field/Pool Name _____
Farm name Jerry Summers Well Number P3S2U
Operator (as registered with the OOG) Jay Bee Oil & Gas
Address 1720 Rt 22 East City Union State NJ Zip 07083

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4365657.18 Easting 494778.49
Landing Point of Curve Northing 4365477.64 Easting 495202.36
Bottom Hole Northing 4362913.90 Easting 496561.97

Elevation (ft) 839.2 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)
Synthetic OBM

Date permit issued 08/02/2017 Date drilling commenced 10/16/2017 Date drilling ceased 11/17/2017
Date completion activities began 03/23/2018 Date completion activities ceased 04/22/2018
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
WV Department of Environmental Protection

Freshwater depth(s) ft 158' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by

Reviewed by:
JCB
6/24/2019

JUN 03 2019

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API 47-073 - 02563 Farm name Jerry Summers Well number P3S2U

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	30"	26"	30'	New	A500 85lb./ft		Y
Surface	24"	18 5/8"	365'	New	J55 94lb./ft	41'&244'	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	1879'	New	J55 61lb./ft	44'&1836'	Y
Intermediate 2	12 1/4"	9 5/8"	9285'	New	HCP-110 47lb./ft	91'&3933'&7556	
Intermediate 3							
Production	8 1/2"	5 1/2"	20550'	New	P110 23lb./ft		Y
Tubing							
Packer type and depth set							

Comment Details _____

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							
Surface	Class A	561	15.6	1.1966	671	CTS	8
Coal							
Intermediate 1	Class A	1469	15.6	1.1855	1694	CTS	8
Intermediate 2	Class A	Lead 1089 Tail 380	Lead 12.5 Tail 15.0	Lead 2.3025 Tail 1.3281	Lead 2507 Tail 505	1000'	
Intermediate 3							
Production	Class H	3618	15.6	1.1825	4278	3500'	8
Tubing							

Drillers TD (ft) 20601' Loggers TD (ft) 20601'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 9400

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 Spiral centralizer every joint from TD back to start of
90 degree.
90 - 70 degree every second joint.
70 degree - KOP every third joint.
KOP - Surface centralizer placed every 500'.

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JUN 03 2019

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS WV Department of Environmental Protection

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

API 47- 073 - 02563

Farm name Jerry Summers

Well number P3S2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3/22/18	20436	20326	84	Pt. Pleasant
2	3/23/18	20308	20108	84	Pt. Pleasant
3	3/24/18	20084	19918	84	Pt. Pleasant
4	3/24/18	19897	19714	84	Pt. Pleasant
5	3/25/18	19692	19522	84	Pt. Pleasant
6	3/25/18	19487	19346	84	Pt. Pleasant
7	3/25/18	19324	19142	84	Pt. Pleasant
8	3/26/18	19126	18944	84	Pt. Pleasant
9	3/26/18	18928	18763	84	Pt. Pleasant
10	3/27/18	18740	18560	84	Pt. Pleasant
11	4/7/18	18549	18366	84	Pt. Pleasant
12	4/7/18	18345	18181	84	Pt. Pleasant
13	4/7/18	18160	17986	84	Pt. Pleasant
14	4/8/18	17977	17786	84	Pt. Pleasant
15	4/8/18	17772	17618	84	Pt. Pleasant
16	4/9/18	N/A	N/A	N/A	Pt. Pleasant

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	3/23/18	69	10836	11116	6889	294190	7573	N/A
2	3/24/18	70	10929	9807	7825	287440	9175	N/A
3	3/24/18	71	11068	9220	7612	328900	9347	N/A
4	3/25/18	74	11057	10096	7748	329700	7698	N/A
5	3/25/18	74	11301	10890	7520	332060	7862	N/A
6	3/26/18	66	10473	9820	7857	328200	10125	N/A
7	3/26/18	77	10373	9206	7875	328920	7671	N/A
8	3/26/18	77	10541	10786	7726	329400	7399	N/A
9	3/27/18	78	10354	9479	7417	327420	7634	N/A
10	3/30/18	80	9885	8840	7583	331220	8138	N/A
11	4/7/18	69	10110	8765	7226	322660	7921	N/A
12	4/7/18	78	10295	9580	7171	325500	8015	N/A
13	4/7/18	72	10653	9342	7515	285640	10423	N/A
14	4/8/18	78	10375	10253	6937	325400	8644	N/A
15	4/8/18	74	10483	9475	7074	258700	7722	N/A
16	4/9/18	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Please insert additional pages as applicable.

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API 47- 073 - 02563

Farm name Jerry Summers

Well number P3S2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	4/10/18	17374	17222	84	Pt. Pleasant
18	4/10/18	17195	17025	84	Pt. Pleasant
19	4/11/18	17017	16823	84	Pt. Pleasant
20	4/11/18	16810	16642	84	Pt. Pleasant
21	4/12/18	16622	16444	84	Pt. Pleasant
22	4/12/18	16420	16256	84	Pt. Pleasant
23	4/12/18	16240	16064	84	Pt. Pleasant
24	4/13/18	16050	15874	84	Pt. Pleasant
25	4/13/18	15858	15702	84	Pt. Pleasant
26	4/13/18	15682	15482	84	Pt. Pleasant
27	4/13/18	15460	15286	84	Pt. Pleasant
28	4/14/18	15265	15102	84	Pt. Pleasant
29	4/14/18	15085	14918	84	Pt. Pleasant
30	4/14/18	14905	14703	84	Pt. Pleasant
31	4/15/18	14688	14510	84	Pt. Pleasant
32	4/15/18	14490	14326	84	Pt. Pleasant

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
17	4/10/18	77	10244	10944	7063	325920	8033	N/A
18	4/10/18	75	10529	10449	7165	341840	9364	N/A
19	4/11/18	76	10228	9649	7772	310540	8128	N/A
20	4/11/18	74	10174	9123	7663	311360	10113	N/A
21	4/12/18	80	10326	9254	7106	316880	8307	N/A
22	4/12/18	76	10107	9726	7100	318959	7796	N/A
23	4/12/18	75	9850	9986	7526	323140	8026	N/A
24	4/13/18	79	10117	9774	7085	322440	8013	N/A
25	4/13/18	77	10290	10025	7153	264820	7587	N/A
26	4/13/18	77	9779	9400	7192	328060	8364	N/A
27	4/13/18	79	10102	9962	7125	322620	7880	N/A
28	4/14/18	78	10244	10320	7079	317060	8139	N/A
29	4/14/18	72	9632	10649	7182	322320	9249	N/A
30	4/14/18	79	9607	9733	7144	314680	8091	N/A
31	4/15/18	69	10559	9800	7086	319700	9414	N/A
32	4/15/18	76	9995	9910	6906	310780	7687	N/A

Please insert additional pages as applicable.

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Well number P3S2U

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Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	4/15/18	14300	14122	84	Pt. Pleasant
34	4/15/18	14100	13928	84	Pt. Pleasant
35	4/15/18	13904	13740	84	Pt. Pleasant
36	4/16/18	13720	13560	84	Pt. Pleasant
37	4/16/18	13540	13363	84	Pt. Pleasant
38	4/17/18	13338	13167	84	Pt. Pleasant
39	4/17/18	13136	12970	84	Pt. Pleasant
40	4/17/18	12952	12772	84	Pt. Pleasant
41	4/18/18	12752	12574	84	Pt. Pleasant
42	4/18/18	12552	12384	84	Pt. Pleasant
43	4/18/18	12364	12185	84	Pt. Pleasant
44	4/19/18	12156	11998	84	Pt. Pleasant
45	4/20/18	11926	11817	84	Pt. Pleasant
46	4/21/18	11802	11608	84	Pt. Pleasant
47	4/21/18	11590	11438	84	Pt. Pleasant
48	4/21/18	11418	11230	84	Pt. Pleasant

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	4/15/18	78	9298	9159	6951	321500	8036	N/A
34	4/15/18	77	9837	10128	7012	311180	8119	N/A
35	4/15/18	74	9804	9798	7234	300260	8141	N/A
36	4/16/18	73	9899	10031	7198	325800	9467	N/A
37	4/16/18	76	9867	10075	7024	312800	9250	N/A
38	4/17/18	68	10331	9826	6992	311640	8010	N/A
39	4/17/18	77	9894	10777	6829	311000	7852	N/A
40	4/17/18	75	10420	10930	6881	318880	8143	N/A
41	4/18/18	66	10174	10422	7216	321980	9872	N/A
42	4/18/18	74	9788	10147	7045	327540	8079	N/A
43	4/18/18	73	10171	10782	7003	313320	9905	N/A
44	4/19/18	72	10862	9985	7994	315520	15958	N/A
45	4/20/18	71	10251	9959	8435	327400	9667	N/A
46	4/21/18	74	10003	9901	6955	305540	8078	N/A
47	4/21/18	74	9649	10225	7133	314920	7631	N/A
48	4/21/18	77	9134	9276	7173	320280	9643	N/A

Please insert additional pages as applicable.

API 47- 073 - 02563 Farm name Jerry Summers Well number P3S2U

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Point Pleasant</u>	<u>10,425.3'</u>	<u>TVD</u>	<u>20,601'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 8100 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 9500 mcfpd Oil _____ bpd NGL _____ bpd Water 75 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	NAME TVD	TVD	MD	MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson Corp
Address 10713 West Sam Houston Parkway North Suite 800 City Houston State TX Zip 77064

Logging Company Statagraph Northeast, Inc.
Address 116 Ellsworth Ave. City Marietta State OH Zip 45750

Cementing Company BJ Services
Address 3415 Millennium BLVD. SE. City Massillon State OH Zip 44646

Stimulating Company FTS International
Address 7248 John Petterway Jr. BLVD City Shreveport State LA Zip 71129

Please insert additional pages as applicable.

Completed by Tyler DuFour Telephone 304-628-3111
Signature Tyler Title Office Manager Date 5/29/19
WV Department of Environmental Protection

API 47-073-02563

P3S2U

ELEVATION

839 kb

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
LIME	1731	1829
INJUN	1829	1906
GORDON	2636	2660
HAMILTON	5345	5527
UPPER Marcellus	5665	
PARCELL LME	5681	
LOWER MARCELLUS	5758	
Onondaga	5815	
Oriskany	6008	
Bass Islands	6464	
Salina	6571	
Wills Creek	7181	
Lockport	7417	
McKenzie	7635	
Rose Hill	7720	
Packer Shell	8004	
Clinton-Medina	8090	
Queenston	8283	
Reedsville	9072	
Utica	10008	
Point Pleasant SH	10154	
Landing Point	10180	
Trenton	10267	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/23/2018
Job End Date:	4/22/2018
State:	West Virginia
County:	Pleasants
API Number:	47-073-02563-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	P3S2U
Latitude:	39.44044800
Longitude:	-81.06067800
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,800
Total Base Water Volume (gal):	17,759,658
Total Base Non Water Volume:	120,980

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	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	89.92539	
Other Chemical (s)	Listed Above	See Trade Name (s) List	Water	7732-18-5	60.00000	0.01484	



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			Water	7732-18-5	40.00000	0.03784	
			Water	7732-18-5	55.00000	0.01408	
			Water	7732-18-5	85.00000	0.39771	
100 Mesh Sand	FTSI	Proppant		Listed Below			
CS-500 SI	FTSI	Scale inhibitor		Listed Below			
Pump Kleen	FTSI	Pump and hose flush		Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
SPB-1	FTSI	Breaker		Listed Below			
30/50 Carbolite	FTSI	Proppant		Listed Below			
FRW-600	FTSI	Friction Reducer		Listed Below			

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HVG-1 4.0	FTSI	Water gelling agent		Listed Below					
ICI-3240	FTSI	Biocide		Listed Below					
10.1%-15.0% HCL	FTSI	Acid		Listed Below					
30/50 White	FTSI	Proppant		Listed Below					
40/70 White	FTSI	Proppant		Listed Below					
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
			Silica, Quartz	14808-60-7	100.00000		4.54691		
			Silica, Quartz	14808-60-7	100.00000		3.49962		
			Silica, Quartz	14808-60-7	100.00000		1.13918		
			Mullite	1302-93-8	85.00000		0.19803		
			Silicon Dioxide	7631-86-9	35.00000		0.08154		
			Hydrogen Chloride	7647-01-0	15.00000		0.07018		
			Silica Crystalline-Cristobalite	14464-46-1	20.00000		0.04660		
			Hydroretreated Light Distillate	64742-47-8	30.00000		0.02838		
			Polycrylamide	Trade Secret	30.00000		0.02838		
			Guar gum	9000-30-0	55.00000		0.01978		
			Raffinates, Sorption Process	64741-85-1	55.00000		0.01978		

			Petroleum Distillate	64742-47-8	55.00000	0.01978	
			Ammonium acetate	631-61-8	10.00000	0.00946	
			Dazomet (Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione.	533-74-4	24.00000	0.00615	
			Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00599	
			Sodium Hydroxide	1310-73-2	23.00000	0.00589	
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00473	
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00473	
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00473	
			Ethylene glycol	107-21-1	13.00000	0.00321	
			Sodium Polyacrylate	9003-04-7	13.00000	0.00321	
			Amine	Trade Secret	3.00000	0.00284	
			Nonionic Surfactant	Trade Secret	3.00000	0.00284	
			Surfactant	Trade Secret	3.00000	0.00284	
			Sodium chloride	7647-14-5	10.00000	0.00247	
			Suspending Agent	1302-78-9	5.00000	0.00180	
			Quartz	14808-60-7	4.00000	0.00144	
			Methanol	67-56-1	90.00000	0.00074	
			Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00072	
			Polybutene (Isobutylene/Butene copolymer)	9003-29-6	100.00000	0.00022	
			White mineral oil	8042-47-5	100.00000	0.00022	
			Raffinates (petroleum), sorption process	64741-85-1	100.00000	0.00022	
			Sodium Metaborate	7775-19-1	1.40000	0.00009	
			Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00008	
			Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00008	
			Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00008	
			Propargyl Alcohol	107-19-7	5.00000	0.00004	

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			N-olefins	Proprietary	3.00000	0.00002	
			Acrylic Polymer	Proprietary			
			Proprietary	Proprietary			

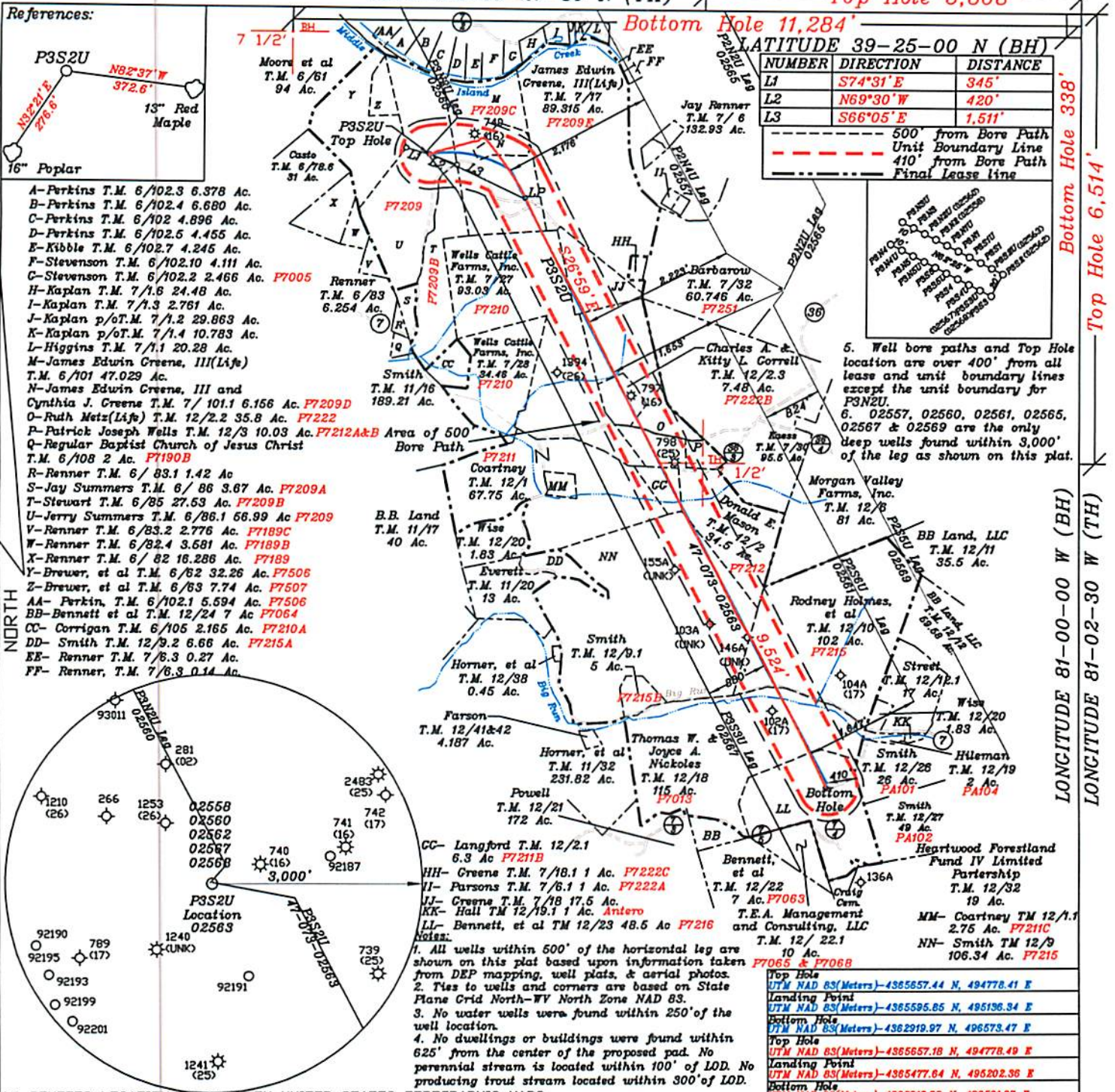
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS
submeter unit

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) David L Jackson
 R.P.E. _____ P.S. 708

DAVID JACKSON
 LICENSED
 No. 708
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE February 27, 2019
 OPERATOR'S WELL NO. P3S2U
 API WELL NO. 47 073 02563
 Environmental Protection

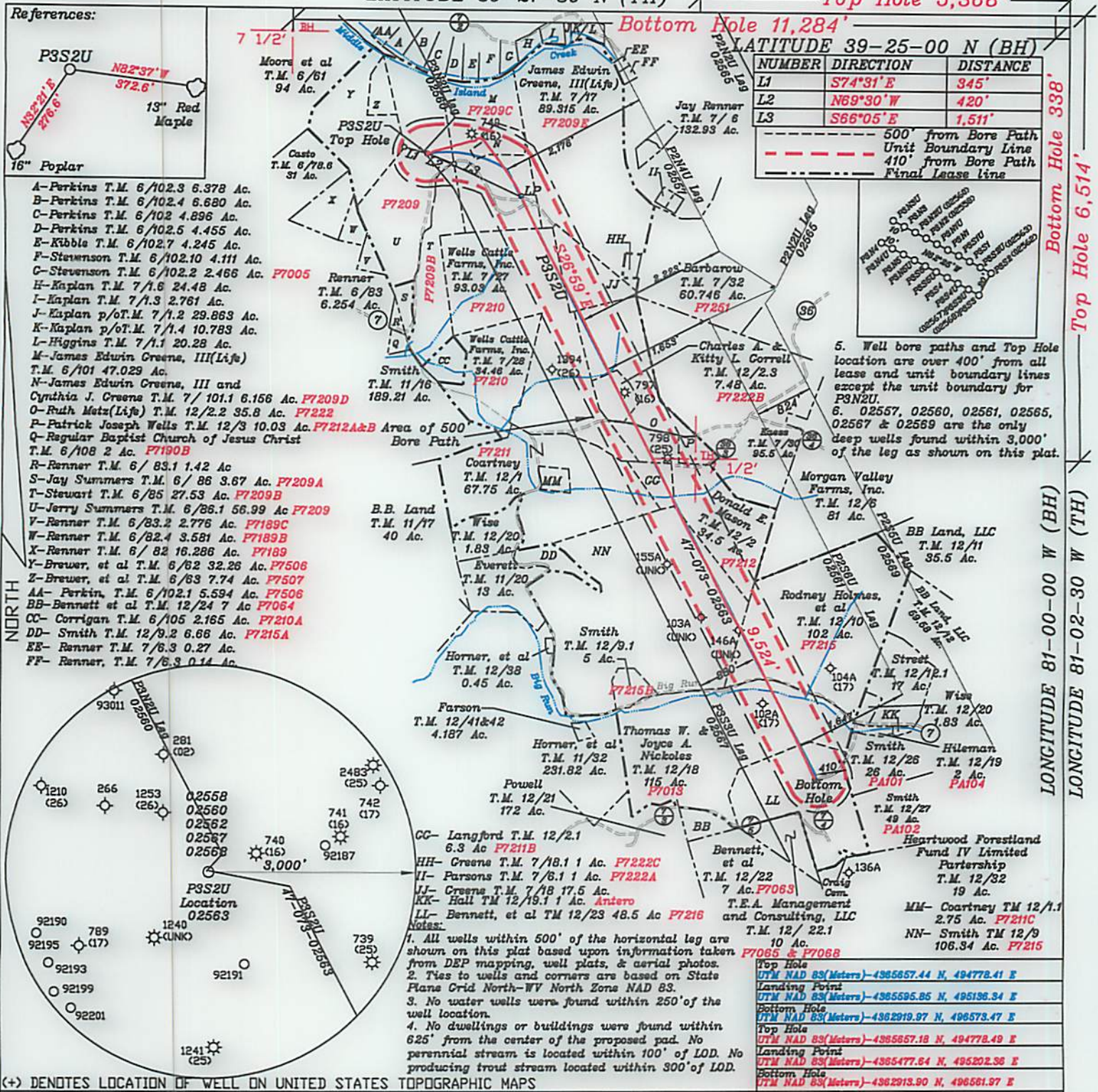
WELL TYPE: OIL X GAS X LIQUID INJECTION X WASTE DISPOSAL _____
 (IF 'GAS') PRODUCTION X STORAGE X DEEP X SHALLOW _____

LOCATION: ELEVATION 839.2' WATER SHED Middle Island Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER Jerry Lee Summers ACREAGE 56.99
 OIL & GAS ROYALTY OWNER Jerry Lee Summers LEASE ACREAGE 56.99
 LEASE NO. P7209

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,425.3'; TMD = 20,601.0'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337



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FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
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(SIGNED) David G. Jackson
 R.P.E. _____ P.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE February 27, 2019
 OPERATOR'S WELL NO. P3S2U
 API WELL NO. _____

WELL TYPE: OIL X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF 'GAS') PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
 LOCATION: ELEVATION 839.2' WATER SHED Middle Island Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER Jerry Lee Summers ACREAGE 56.99
 OIL & GAS ROYALTY OWNER Jerry Lee Summers LEASE ACREAGE 56.99
 LEASE NO. P7209

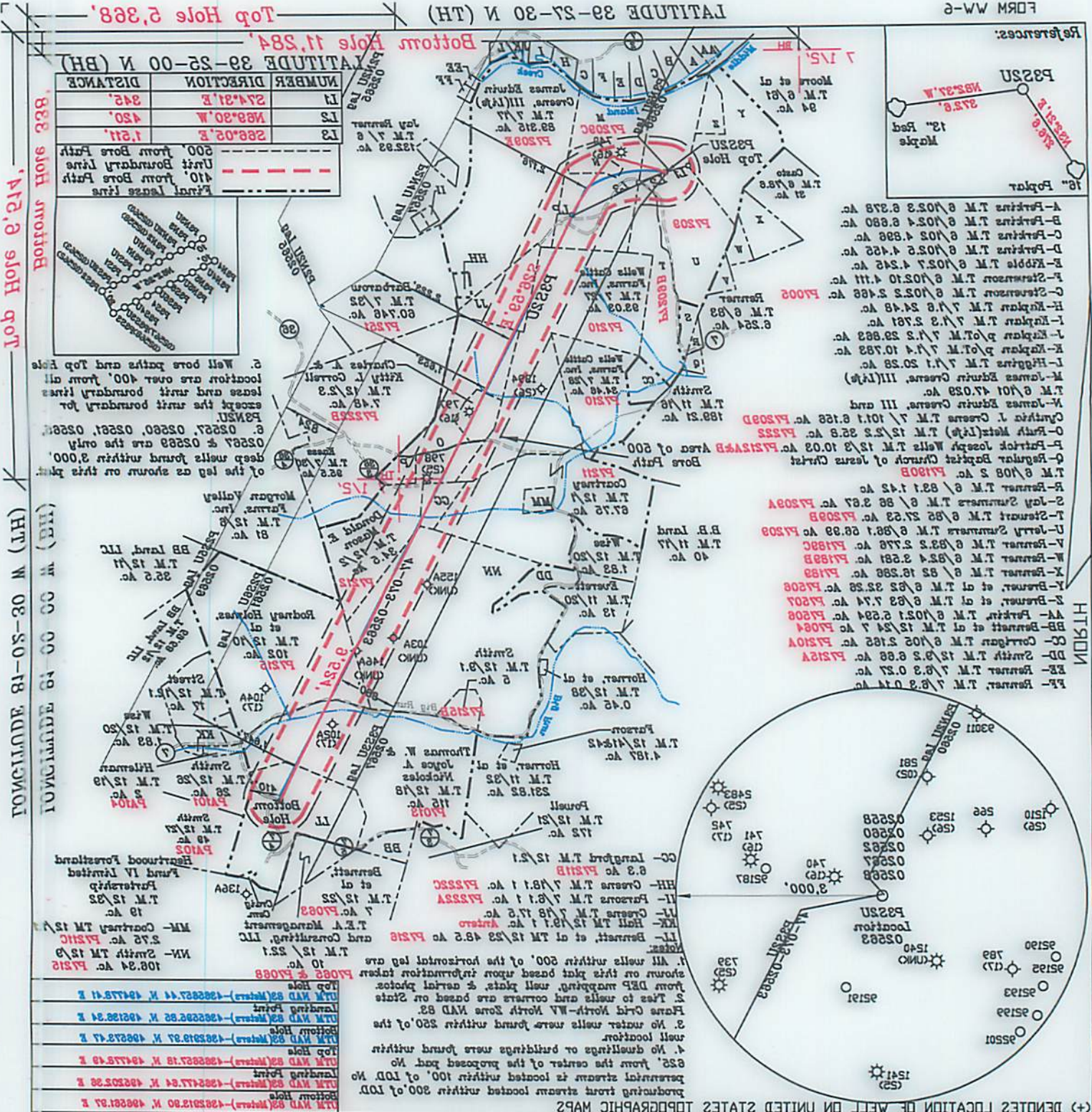
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE DR _____
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,425.3'; TMD = 20,601.0'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

References:



NUMBER	DIRECTION	DISTANCE
L1	S74°31'E	345'
L2	N69°30'W	120'
L3	S66°05'E	121'



LONGITUDE 81-05-30 W (HT) (BL) (BL)

2. Well bore paths and Top Hole location are over 400' from all leases and unit boundary lines except the unit boundary for P2320.

3. 02567 & 02568 are the only deep wells found within 3,000' of the lag as shown on this plat.

- 1. All wells within 500' of the horizontal lag are shown on this plat based upon information taken from DEP mapping, well plots & aerial photos.
- 2. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
- 3. No water wells were found within 250' of the well location.
- 4. No dwellings or buildings were found within 625' from the center of the proposed pad No. P2320.
- 5. A 100' x 100' of LOD No. P2320 is located within 100' of LOD No. P2320.
- 6. A 300' x 300' of LOD No. P2320 is located within 300' of LOD No. P2320.

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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



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 OF ENVIRONMENTAL PROTECTION.

(SIGNED) David S. Jackson

R.P.E. No. 708

FILE NO.	
DRAWING NO.	1
SCALE	1" = 2000'
MINIMUM DEGREE OF ACCURACY	1 in 200
PROVEN SOURCE OF ELEVATION	GPS
Submeter unit	

STATE OF WEST VIRGINIA
Division of Environmental Protection
OFFICE OF OIL AND GAS

DATE February 27, 2019
OPERATOR'S WELL NO. P2320
API WELL NO. 02563

STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION X STORAGE DEEP X SHALLOW

LOCATION: ELEVATION 830'S WATER SHED Middle Island Creek
DISTRICT Union
QUADRANGLE Bears Run 7 1/2'
SURFACE OWNER Jerry Lee Summers
OIL & GAS ROYALTY OWNER Jerry Lee Summers

LEASE NO. P2320
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Point Pleasant
ESTIMATED DEPTH TVD = 10,425.3'; TMD = 20,601.0'

WELL OPERATOR Jay-Bee Oil & Gas, Inc.
DESIGNATED AGENT Randy Broda
ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337