

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

API 47-095-02630 County Tyler District McElroy
Quad Shirley Pad Name Grumpy Field/Pool Name _____
Farm name Diana Sampson Well Number 6
Operator (as registered with the OOG) Jay Bee Oil and Gas, Inc
Address 23 Eganfuskee St. Suite 126 City Jupiter State FL Zip 33477

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4368709.15 Easting 520282.26
Landing Point of Curve Northing 4368774.40 Easting 520005.09
Bottom Hole Northing 4370316.79 Easting 519453.76

Elevation (ft) 1,298.7' 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)
K48 (base oil)

Date permit issued 07/23/2019 Date drilling commenced 10/4/2019 (tophole) Date drilling ceased 10/18/2021
Date completion activities began 12/30/2021 Date completion activities ceased 1/9/2022
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

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

Freshwater depth(s) ft 120' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 870' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 501', 640', 734', 893', 956' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

S. McCoy
11/14/2025
10/31/22

API 47- 095 - 02630

Farm name Diana Sampson

Well number 6

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	24	18.625	30	N		NA	Y
Surface	17.5	13.375	336	N	48#/H40	50	Y
Coal							
Intermediate 1	11	8.625	2,541	N	24#/J55	100'/2400'	Y
Intermediate 2							
Intermediate 3							
Production	7.875	5-1/2	12,864	N	20#/P110	NA	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	Class A, 2%CaCl, 1/4 flake					SURFACE	8
Surface	Class A, 2%CaCl, 1/4 flake	330	15.60	1.1966	394	SURFACE	8
Coal							
Intermediate 1	Class A, 2%CaCl	764	15.6	1.18	901	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A, FLY ASH, MPA-170, R-3	2,014	14.50	1.17	2,356	SURFACE	8
Tubing							

Drillers TD (ft) 12,900' MD

Loggers TD (ft) 12,900'

Deepest formation penetrated MARCELLUS

Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6,558'

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

5-1/2": Vertical Hole: bow spring every 500'. Horizontal: every 42' spiral centralizer. Curve: every 84' spiral centralizer

8-5/8": Bow Spring every 375'

13-3/8": Bow Spring every joint

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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API 47- 095 - 02630 Farm name Daina Samson Well number Grumpy 6

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12-30-21	12789	12728	72	Marcellus
2	12-30-21	12690	12562	72	Marcellus
3	12-30-21	12529	12417	72	Marcellus
4	12-31-21	12372	12232	72	Marcellus
5	12-31-21	12184	12076	72	Marcellus
6	12-31-21	12017	11890	72	Marcellus
7	1-1-22	11825	11527	72	Marcellus
8	1-1-22	11680	11530	72	Marcellus
9	1-1-22	11484	11338	72	Marcellus
10	1-2-22	11306	11150	72	Marcellus
11	1-2-22	11106	11022	72	Marcellus
12	1-2-22	10984	10820	72	Marcellus
13	1-2-22	10772	10670	72	Marcellus
14	1-3-22	10636	10558	72	Marcellus
15	1-3-22	10508	10360	72	Marcellus
16	1-3-22	10315	10173	72	Marcellus

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	12-30-21	72.3	7227	8418	4022	259044	7659	N/A
2	12-30-21	74.9	7343	7573	4112	259049	8708	N/A
3	12-30-21	75.3	7149	7562	5110	259991	8336	N/A
4	12-31-21	74.9	7199	7462	4409	262206	8314	N/A
5	12-31-21	74.6	6846	7144	4116	260072	8114	N/A
6	12-31-21	75.1	6996	7360	4225	261203	8002	N/A
7	1-1-22	75.1	6917	7304	4286	261881	7601	N/A
8	1-1-22	74.5	6984	7586	4403	261121	8048	N/A
9	1-1-22	74.8	6749	7511	4396	262890	8085	N/A
10	1-2-22	75.3	6804	7136	5281	262447	7927	N/A
11	1-2-22	74.2	7103	7720	5268	162613	10451	N/A
12	1-2-22	74.6	6531	6971	4011	260025	7933	N/A
13	1-2-22	75.3	6746	7541	4325	259555	7828	N/A
14	1-3-22	75.4	6908	7562	4722	262135	7926	N/A
15	1-3-22	74.5	6672	7042	4502	255971	7998	N/A
16	1-2-22	74.7	6597	7151	4110	262554	7730	N/A

Please insert additional pages as applicable.

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API 47- 095 - 02630 Farm name Daina Samson Well number Grumpy 6

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	1-4-22	10136	9974	72	Marcellus
18	1-4-22	9936	9783	72	Marcellus
19	1-4-22	9738	9618	72	Marcellus
20	1-4-22	9586	9418	72	Marcellus
21	1-5-22	9380	9240	72	Marcellus
22	1-5-22	9198	9075	72	Marcellus
23	1-5-22	9034	8870	72	Marcellus
24	1-6-22	8808	8668	72	Marcellus
25	1-6-22	8629	8504	72	Marcellus
26	1-9-22	8461	8356	72	Marcellus
27	1-9-22	8305	8146	72	Marcellus
28	1-9-22	8104	7950	72	Marcellus
29	1-9-22	7912	7741	72	Marcellus
30	1-9-22	7708	7468	72	Marcellus

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	1-4-22	75.4	6722	6798	4187	259907	7638	N/A
18	1-4-22	74.5	6702	7740	4456	259393	8056	N/A
19	1-4-22	74.6	6617	6822	4501	258344	7900	N/A
20	1-4-22	74.8	6510	7752	4855	260219	7767	N/A
21	1-5-22	74.9	6719	8003	4726	257513	7897	N/A
22	1-5-22	70	6187	7146	4648	251989	8158	N/A
23	1-5-22	75.4	6774	6912	4522	257736	7800	N/A
24	1-6-22	74.1	6408	6810	4309	260924	8205	N/A
25	1-6-22	75	6469	6654	4447	262154	8011	N/A
26	1-9-22	74.6	6398	6901	4511	262732	7926	N/A
27	1-9-22	74.7	6363	7456	5284	252570	7756	N/A
28	1-9-22	75.1	6261	6694	4319	260759	7870	N/A
29	1-9-22	74.8	6339	6820	4537	259723	7868	N/A
30	1-9-22	74.8	6153	6837	4549	260899	7767	N/A

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>7,054'</u> TVD	<u>12,900'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 2432 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5450.0 mcfpd Oil _____ bpd NGL _____ bpd Water 23 bpd GAS MEASURED BY ☒ Estimated ☐ Orifice ☐ Pilot

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

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling
Address 10350 Richmond AVE City Houston State TX Zip 77042

Logging Company Stratagraph NE Inc.
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company American Cementing
Address 3415 MILLENNIUM BLV City Massillon State OH Zip 44646

Stimulating Company CalFrac
Address 2001 Summit View RD City Smithfield State PA Zip 15478

Please insert additional pages as applicable.

Completed by Emily Rote Telephone 304-628-3111
Signature  Title Regulatory Agent Date 10/18/2022

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

11/14/2025
531/22

PAD-WELL	Grumpy No. 6		
ELEVATION	1299		
PERMIT	47-095-02630		
	TOP TVD	BOTTOM TVD	
Carroll Sand	340	380	
Murphy Sand	496	521	
1st Cow Run Sand	545	555	
Little Dunkard Sand	635	685	
Dunkard Sand	770	873	
sandstone	990	1010	
2nd Cow Run Sand	1056	1092	
Gas Sand	1140	1145	
1st Salt	1436	1475	
2nd Salt	1604	1643	
3rd Salt	1828	1895	
Maxon			
Big Lime	2287	2335	
Big Injun	2410	2497	Gas show
Berea			
Gordon	3064	3088	Gas show
Fifth	3282	3295	
Warren	3758	3798	
Riley	4723	4,741	
Benson	5287	5,291	
Alexander	5650	5,705	
Hamilton	5928	6,490	Gas show
Upper Marcellus (Geneseo)	6941	6978	Gas show
Purcell (Tully Lm)	6978	6982	
Marcellus	7031		Gas show
Cherry Valley			

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Hydraulic Fracturing Fluid Product Component Information Disclosure

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SW 13/12
10/13/22

Job Start Date:	12/30/2021
Job End Date:	1/9/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02630-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Grumpy 6
Latitude:	39.46772500
Longitude:	-80.76421200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,053
Total Base Water Volume (gal):	10,332,689
Total Base Non Water Volume:	0



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	91.53473	
CalGel™ 4000	CWS	Gel Slurry					
				Listed Below			

22131915

Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
DynaRate™ 6459	CWS	Friction Reducer					
				Listed Below			
CalBreak™ 5700	CWS	Breaker					
				Listed Below			
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			
CalGuard™ 9100	CWS	Corrosion Inhibitor					
				Listed Below			
MBC 12:3	CWS	Microbiocide					
				Listed Below			
DynaScale™ 3511	CWS	Scale Inhibitor					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica (Quartz)	14808-60-7	100.00000	8.17314	
			Hydrochloric acid	7647-01-0	37.00000	0.16016	

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		Calcite	471-34-1	1.00000	0.05634	RECEIVED Office of Oil and Gas JUL 07 2012 WV Department of Environmental Protection
		Illite	12173-60-3	1.00000	0.02538	
		Biotite	1302-27-8	0.10000	0.00817	
		Goethite	1310-14-1	0.10000	0.00817	
		Apatite	64476-38-6	0.10000	0.00817	
		Guar gum	9000-30-0	60.00000	0.00815	
		Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.00815	
		Glutaraldehyde	111-30-8	14.00000	0.00335	
		Ilmenite	98072-94-7	0.10000	0.00254	
		Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00072	
		Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.00000	0.00072	
		Ethanol	64-17-5	3.00000	0.00072	
		Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00068	
		Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00020	
		Ethylene Glycol	107-21-1	40.00000	0.00012	
		Ammonium chloride ((NH4)Cl)	12125-02-9	5.00000	0.00007	
		Distillates (petroleum), hydrotreated light	64742-47-8	3.00000	0.00007	
		Diethylene glycol, monomethyl ether	34590-94-8	20.00000	0.00006	
		Hydrogen peroxide (H2O2)	7722-84-1	8.00000	0.00004	
		Formic acid	64-18-6	10.00000	0.00003	
		Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00003	
		Ethoxylated Alcohols	68131-39-5	10.00000	0.00003	
		Cinnamaldehyde	104-55-2	10.00000	0.00003	

22/13/2022
MS

			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			Inorganic Acid Salt	Proprietary			Proprietary CAS & Additive Concentration
			Proprietary Polymer 1	Proprietary			Proprietary CAS & Additive Concentration
			Inorganic Salt	Proprietary			Proprietary CAS & Additive Concentration
			Organic Acid Ether	Proprietary			Proprietary CAS & Additive Concentration

* 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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Company: Jay-Bee Oil & Gas

Well: Grumpy 6

Location: Tyler Co., WV

Rig: Precision 823

API No: 47-095-02630-00-00

Start Date: 10/03/21

Start Depth: 330

Job Number: 68145

Magnetic Declination: -7.75

Grid Correction: 0.15

Total Correction: -7.9

North reference: Grid

Calculation Method: Minimum Curvature

Proposed Azimuth: 332.44

Depth Ref: RKB 1313 ft

Field: Marcellus

Location Lat/Long: 39.467725, -80.764212

End Date: 10/16/21 End Depth: 12900

Office of Oil and Gas
Division # 2

JUL 7 2022

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Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
									+N/-S (ft)	+E/-W (ft)	Distance (ft)	Angle (deg)				
TIP	306.50	306.50	0.60	95.90	S 84.1 E	0	306.48	0.00	-1.09	-1.73	0.00	0.00	0.00	0	0	0
1st Svy	460	373	0.59	106.16	S 73.8 E	67	372.98	-0.59	-1.22	-1.05	1.61	220.82	0.16	-0.02	15.43	1
Velocity	490	403	0.70	112.87	S 67.1 E	30	402.97	-0.84	-1.34	-0.74	1.53	208.92	0.44	0.37	22.37	1
Velocity	534	447	0.57	132.06	S 47.9 E	44	446.97	-1.25	-1.59	-0.33	1.62	191.66	0.56	-0.30	43.61	1
Velocity	579	492	0.76	202.67	S 22.7 W	45	491.97	-1.66	-2.01	-0.28	2.03	187.82	1.74	0.42	156.91	1
Velocity	623	536	1.75	237.94	S 57.9 W	44	535.96	-1.89	-2.64	-0.96	2.81	199.96	2.75	2.25	80.16	1
Velocity	668	581	3.01	242.78	S 62.8 W	45	580.92	-1.94	-3.54	-2.59	4.39	216.18	2.83	2.80	10.76	1
Velocity	712	625	4.43	249.41	S 69.4 W	44	624.83	-1.73	-4.67	-5.21	7.00	228.13	3.37	3.23	15.07	1
Velocity	757	670	5.41	249.98	S 70.0 W	45	669.66	-1.24	-6.01	-8.83	10.68	235.77	2.18	2.18	1.27	1
Velocity	801	714	4.69	250.56	S 70.6 W	44	713.49	-0.71	-7.32	-12.47	14.46	239.61	1.64	-1.64	1.32	1
Velocity	846	759	3.43	243.05	S 63.1 W	45	758.37	-0.44	-8.54	-15.41	17.62	241.01	3.03	-2.80	-16.69	1
Velocity	890	803	2.12	233.21	S 53.2 W	44	802.32	-0.56	-9.62	-17.23	19.74	240.83	3.16	-2.98	-22.36	1
Velocity	935	848	1.78	230.21	S 50.2 W	45	847.30	-0.84	-10.57	-18.44	21.25	240.18	0.79	-0.76	-6.67	1
Velocity	1024	937	0.65	220.12	S 40.1 W	89	936.27	-1.32	-11.84	-19.83	23.09	239.16	1.29	-1.27	-11.34	1
Velocity	1113	1026	0.54	229.44	S 49.4 W	89	1025.27	-1.61	-12.50	-20.47	23.98	238.60	0.16	-0.12	10.47	1
Velocity	1202	1115	0.68	225.71	S 45.7 W	89	1114.26	-1.85	-13.14	-21.17	24.91	238.17	0.16	0.16	-4.19	1
Velocity	1291	1204	0.83	227.44	S 47.4 W	89	1203.26	-2.17	-13.94	-22.02	26.06	237.66	0.17	0.17	1.94	1
Velocity	1380	1293	0.76	219.79	S 39.8 W	89	1292.25	-2.57	-14.83	-22.87	27.26	237.04	0.14	-0.08	-8.60	1
Velocity	1468	1381	1.02	215.36	S 35.4 W	88	1380.24	-3.15	-15.92	-23.70	28.55	236.11	0.31	0.30	-5.03	1
Velocity	1557	1470	1.13	240.05	S 60.1 W	89	1469.22	-3.55	-17.00	-24.92	30.17	235.69	0.53	0.12	27.74	1
Velocity	1646	1559	0.96	287.37	N 72.6 W	89	1558.21	-3.06	-17.22	-26.39	31.51	236.87	0.96	-0.19	53.17	1
Velocity	1735	1648	1.32	305.94	N 54.1 W	89	1647.19	-1.61	-16.40	-27.93	32.39	239.59	0.57	0.40	20.87	1
Velocity	1824	1737	1.96	312.15	N 47.9 W	89	1736.15	0.73	-14.77	-29.89	33.34	243.70	0.75	0.72	6.98	1
Velocity	1916	1829	2.11	283.92	N 76.1 W	92	1828.10	3.33	-13.31	-32.70	35.30	247.85	1.09	0.16	-30.68	1
Velocity	2005	1918	2.84	264.60	S 84.6 W	89	1917.02	5.25	-13.12	-36.49	38.77	250.22	1.23	0.82	-21.71	1
Velocity	2094	2007	3.85	242.67	S 62.7 W	89	2005.87	6.09	-14.70	-41.34	43.87	250.42	1.81	1.13	-24.64	1
Velocity	2183	2096	4.75	236.28	S 56.3 W	89	2094.62	5.71	-18.12	-47.05	50.42	248.94	1.14	1.01	-7.18	1
Velocity	2272	2185	5.44	230.28	S 50.3 W	89	2183.27	4.42	-22.86	-53.36	58.06	246.81	0.98	0.78	-6.74	1
Velocity	2361	2274	6.76	229.38	S 49.4 W	89	2271.76	2.35	-28.97	-60.59	67.15	244.45	1.49	1.48	-1.01	1
Velocity	2450	2363	7.76	226.87	S 46.9 W	89	2360.05	-0.45	-36.49	-68.95	78.01	242.11	1.18	1.12	-2.82	1
Velocity	2539	2452	7.65	230.44	S 50.4 W	89	2448.24	-3.29	-44.37	-77.90	89.65	240.34	0.55	-0.12	4.01	1
Velocity	2565	2478	7.99	229.82	S 49.8 W	26	2474.00	-4.04	-46.63	-80.61	93.13	239.95	1.35	1.31	-2.38	1
Velocity	2665	2586	5.75	232.32	S 52.3 W	108	2581.22	-6.64	-54.79	-90.63	105.90	238.85	2.09	-2.07	2.31	2
Velocity	2754	2675	5.03	240.74	S 60.7 W	89	2669.83	-7.53	-59.42	-97.56	114.23	238.66	1.20	-0.81	9.46	2
Velocity	2843	2764	5.96	245.83	S 65.8 W	89	2758.42	-7.38	-63.22	-105.18	122.72	238.99	1.18	1.04	5.72	2
Velocity	2931	2852	6.44	236.86	S 56.9 W	88	2845.90	-7.59	-67.79	-113.49	132.19	239.15	1.23	0.55	-10.19	2
Velocity	3020	2941	6.32	231.35	S 51.4 W	89	2934.35	-9.01	-73.57	-121.49	142.03	238.80	0.70	-0.13	-6.19	2
Velocity	3109	3030	5.79	235.99	S 56.0 W	89	3022.86	-10.46	-79.14	-129.04	151.38	238.48	0.81	-0.60	5.21	2
Velocity	3198	3119	6.27	240.20	S 60.2 W	89	3111.36	-11.15	-84.07	-136.98	160.72	238.46	0.73	0.54	4.73	2
Velocity	3287	3208	7.07	240.69	S 60.7 W	89	3199.76	-11.51	-89.17	-145.97	171.05	238.58	0.90	0.90	0.55	2
Velocity	3376	3297	6.91	240.83	S 60.8 W	89	3288.10	-11.83	-94.46	-155.42	181.87	238.71	0.18	-0.18	0.16	2
Velocity	3465	3386	7.25	238.31	S 58.3 W	89	3376.42	-12.38	-100.02	-164.87	192.84	238.76	0.52	0.38	-2.83	2



Company: Jay-Bee Oil & Gas
 Well: Grumpy 6
 Location: Tyler Co., WV
 Rig: Precision 823
 API No: 47-095-02630-00-00
 Start Date: 10/03/21 Start Depth: 330

Job Number: 68145
 Magnetic Declination: -7.75
 Grid Correction: 0.15
 Total Correction: -7.9
 North reference: Grid
 Calculation Method: Minimum Curvature
 Proposed Azimuth: 332.44
 Depth Ref: RKB 1313 ft
 Field: Marcellus
 Location Lat/Long: 39.467725, -80.764212
 End Date: 10/16/21 End Depth: 12900

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 WV Department of Environmental Protection
 2/13/22

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N/-S (ft)	+E/-W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
Velocity	3554	3475	7.97	236.92	S 56.9 W	89	3464.64	-13.38	-106.34	-174.82	204.62	238.69	0.83	0.81	-1.56	2
Velocity	3643	3564	7.83	237.17	S 57.2 W	89	3552.79	-14.53	-112.99	-185.09	216.85	238.60	0.16	-0.16	0.28	2
Velocity	3732	3653	6.98	237.10	S 57.1 W	89	3641.05	-15.59	-119.21	-194.72	228.32	238.52	0.96	-0.96	-0.08	2
Velocity	3821	3742	6.17	237.96	S 58.0 W	89	3729.46	-16.47	-124.69	-203.32	238.51	238.48	0.92	-0.91	0.97	2
Velocity	3912	3833	6.29	242.43	S 62.4 W	91	3819.93	-16.85	-129.59	-211.88	248.37	238.55	0.55	0.13	4.91	2
Velocity	4002	3923	7.04	243.30	S 63.3 W	90	3909.32	-16.77	-134.35	-221.18	258.79	238.72	0.84	0.83	0.97	2
Velocity	4091	4012	8.13	240.49	S 60.5 W	89	3997.54	-16.90	-139.90	-231.53	270.51	238.86	1.29	1.22	-3.16	2
Velocity	4180	4101	8.60	236.99	S 57.0 W	89	4085.59	-17.75	-146.63	-242.59	283.46	238.85	0.78	0.53	-3.93	2
Velocity	4269	4190	7.99	236.57	S 56.6 W	89	4173.66	-19.01	-153.66	-253.33	296.29	238.76	0.69	-0.69	-0.47	2
Velocity	4357	4278	7.35	237.67	S 57.7 W	88	4260.87	-20.11	-160.04	-263.19	308.03	238.70	0.75	-0.73	1.25	2
Velocity	4446	4367	6.41	240.94	S 60.9 W	89	4349.23	-20.71	-165.50	-272.34	318.68	238.71	1.14	-1.06	3.67	2
Velocity	4535	4456	6.38	238.65	S 58.7 W	89	4437.68	-21.17	-170.48	-280.91	328.59	238.75	0.29	-0.03	-2.57	2
Velocity	4624	4545	6.95	232.20	S 52.2 W	89	4526.08	-22.45	-176.36	-289.38	338.89	238.64	1.06	0.64	-7.25	2
Velocity	4713	4634	7.62	230.90	S 50.9 W	89	4614.36	-24.59	-183.38	-298.22	350.09	238.41	0.78	0.75	-1.46	2
Velocity	4802	4723	6.87	232.13	S 52.1 W	89	4702.65	-26.72	-190.37	-307.00	361.23	238.20	0.86	-0.84	1.38	2
Velocity	4891	4812	7.46	233.71	S 53.7 W	89	4790.95	-28.55	-197.05	-315.86	372.29	238.04	0.70	0.66	1.78	2
Velocity	4980	4901	6.84	235.50	S 55.5 W	89	4879.26	-30.07	-203.48	-324.88	383.34	237.94	0.74	-0.70	2.01	2
Velocity	5069	4990	7.47	238.38	S 58.4 W	89	4967.56	-31.12	-209.51	-334.18	394.42	237.91	0.81	0.71	3.24	2
Velocity	5158	5079	7.28	240.23	S 60.2 W	89	5055.83	-31.75	-215.34	-344.00	405.84	237.95	0.34	-0.21	2.08	2
Velocity	5247	5168	6.92	237.85	S 57.9 W	89	5144.15	-32.39	-221.00	-353.43	416.84	237.98	0.52	-0.40	-2.67	2
Velocity	5336	5257	6.42	238.15	S 58.2 W	89	5232.54	-33.19	-226.48	-362.20	427.18	237.98	0.56	-0.56	0.34	2
Velocity	5425	5346	6.79	238.69	S 58.7 W	89	5320.95	-33.91	-231.84	-370.92	437.41	237.99	0.42	0.42	0.61	2
Velocity	5513	5434	7.53	237.53	S 57.5 W	88	5408.27	-34.74	-237.63	-380.23	448.38	238.00	0.86	0.84	-1.32	2
Velocity	5605	5526	7.33	233.81	S 53.8 W	92	5499.49	-36.14	-244.34	-390.05	460.26	237.94	0.57	-0.22	-4.04	2
Velocity	5694	5615	6.74	232.44	S 52.4 W	89	5587.82	-37.90	-250.87	-398.78	471.12	237.83	0.69	-0.66	-1.54	2
Velocity	5783	5704	7.11	235.36	S 55.4 W	89	5676.17	-39.49	-257.19	-407.45	481.83	237.74	0.57	0.42	3.28	2
Velocity	5872	5793	7.46	235.36	S 55.4 W	89	5764.46	-40.88	-263.60	-416.73	493.10	237.68	0.39	0.39	0.00	2
Velocity	5961	5882	7.67	235.12	S 55.1 W	89	5852.68	-42.35	-270.28	-426.36	504.81	237.63	0.24	0.24	-0.27	2
Velocity	6050	5971	7.36	236.69	S 56.7 W	89	5940.92	-43.67	-276.81	-435.99	516.44	237.59	0.42	-0.35	1.76	2
Velocity	6139	6060	7.99	236.12	S 56.1 W	89	6029.12	-44.93	-283.39	-445.89	528.33	237.56	0.71	0.71	-0.64	2
Velocity	6228	6149	7.95	236.18	S 56.2 W	89	6117.26	-46.28	-290.26	-456.14	540.66	237.53	0.05	-0.04	0.07	2
Velocity	6317	6238	7.94	240.27	S 60.3 W	89	6205.41	-47.18	-296.74	-466.59	552.96	237.55	0.64	-0.01	4.60	2
Velocity	6380	6312	8.76	241.10	S 61.1 W	74	6278.62	-47.51	-301.99	-475.97	563.69	237.61	1.12	1.11	1.12	3
Velocity	6469	6401	9.84	238.11	S 58.1 W	89	6366.45	-48.24	-309.29	-488.36	578.06	237.65	1.33	1.21	-3.36	3
Velocity	6558	6490	10.11	242.62	S 62.6 W	89	6454.11	-48.79	-316.90	-501.75	593.44	237.72	0.93	0.30	5.07	3
Velocity	6602	6534	11.43	261.24	S 81.2 W	44	6497.34	-47.37	-319.34	-509.49	601.30	237.92	8.41	3.00	42.32	3
Velocity	6647	6579	13.20	273.12	N 86.9 W	45	6541.31	-43.31	-319.74	-519.03	609.61	238.37	6.85	3.93	26.40	3
Velocity	6692	6624	15.78	285.31	N 74.7 W	45	6584.89	-36.53	-317.84	-530.07	618.06	239.05	8.85	5.73	27.09	3
Velocity	6736	6668	18.53	295.33	N 64.7 W	44	6626.94	-26.88	-313.27	-542.16	626.16	239.98	9.15	6.25	22.77	3
Velocity	6781	6713	21.26	304.78	N 55.2 W	45	6669.26	-13.94	-305.55	-555.33	633.84	241.18	9.36	6.07	21.00	3
Velocity	6826	6758	24.03	309.66	N 50.3 W	45	6710.79	1.74	-295.05	-569.09	641.03	242.60	7.43	6.16	10.84	3
Velocity	6870	6802	27.46	313.35	N 46.7 W	44	6750.42	19.59	-282.36	-583.37	648.11	244.17	8.60	7.80	8.39	3



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 Well: Grumpy 6
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 Rig: Precision 823
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Job Number: 68145
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 End Date: 10/16/21 End Depth: 12900

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 WV Department of Environmental Protection
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Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N/-S (ft)	+E/-W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
Velocity	6915	6847	30.86	316.86	N 43.1 W	45	6789.71	40.52	-266.81	-598.81	655.56	245.98	8.45	7.56	7.80	3
Velocity	6960	6892	34.67	319.37	N 40.6 W	45	6827.55	64.11	-248.67	-615.04	663.41	247.99	8.99	8.47	5.58	3
Velocity	7003	6937	38.57	320.00	N 40.0 W	45	6863.66	90.29	-228.20	-632.40	672.32	250.16	8.71	8.67	1.40	5
Velocity	7048	6982	43.28	319.34	N 40.7 W	45	6897.65	119.03	-205.74	-651.48	683.20	252.47	10.51	10.47	-1.47	5
Velocity	7093	7027	48.36	318.42	N 41.6 W	45	6929.00	150.39	-181.45	-672.70	696.75	254.91	11.38	11.29	-2.04	5
Velocity	7138	7072	55.07	318.47	N 41.5 W	45	6956.86	184.64	-155.03	-696.12	713.18	257.44	14.91	14.91	0.11	5
Velocity	7182	7116	62.10	317.85	N 42.2 W	44	6979.78	221.01	-127.08	-721.16	732.27	260.01	16.02	15.98	-1.41	5
Velocity	7227	7161	68.67	320.20	N 39.8 W	45	6998.52	260.78	-96.19	-747.95	754.11	262.67	15.35	14.60	5.22	5
Velocity	7272	7206	72.73	322.86	N 37.1 W	45	7013.39	302.47	-62.94	-774.36	776.91	265.35	10.61	9.02	5.91	5
Velocity	7316	7250	77.45	327.55	N 32.5 W	44	7024.72	344.63	-28.04	-798.59	799.08	267.99	14.87	10.73	10.66	5
Velocity	7361	7295	83.18	330.82	N 29.2 W	45	7032.28	388.89	10.04	-821.29	821.35	270.70	14.61	12.73	7.27	5
Velocity	7406	7340	84.44	332.45	N 27.6 W	45	7037.14	433.63	49.41	-842.54	843.99	273.36	4.56	2.80	3.62	5
Velocity	7450	7384	84.84	335.15	N 24.9 W	44	7041.25	477.42	88.71	-861.88	866.43	275.88	6.18	0.91	6.14	5
Velocity	7495	7429	85.07	339.00	N 21.0 W	45	7045.21	522.09	129.99	-879.34	888.89	278.41	8.54	0.51	8.56	5
Velocity	7539	7473	86.74	338.98	N 21.0 W	44	7048.35	565.69	170.96	-895.07	911.25	280.81	3.80	3.80	-0.05	5
Velocity	7584	7518	90.02	339.31	N 20.7 W	45	7049.62	610.35	212.99	-911.08	935.65	283.16	7.33	7.29	0.73	5
Velocity	7673	7607	89.75	338.81	N 21.2 W	89	7049.80	698.76	296.11	-942.89	988.29	287.43	0.64	-0.30	-0.56	5
Velocity	7762	7696	89.72	338.80	N 21.2 W	89	7050.21	787.21	379.09	-975.07	1046.17	291.24	0.04	-0.03	-0.01	5
Velocity	7852	7786	89.36	338.67	N 21.3 W	90	7050.93	876.67	462.95	-1007.71	1108.97	294.67	0.43	-0.40	-0.14	5
Velocity	7941	7875	89.78	341.39	N 18.6 W	89	7051.60	964.88	546.59	-1038.10	1173.21	297.77	3.09	0.47	3.06	5
Velocity	8030	7964	89.15	341.71	N 18.3 W	89	7052.43	1052.75	631.01	-1066.27	1238.99	300.62	0.79	-0.71	0.36	5
Velocity	8120	8054	89.02	341.74	N 18.3 W	90	7053.87	1141.56	716.46	-1094.48	1308.13	303.21	0.15	-0.14	0.03	5
Velocity	8209	8143	91.32	345.23	N 14.8 W	89	7053.61	1228.89	801.77	-1119.78	1377.22	305.60	4.70	2.58	3.92	5
Velocity	8298	8232	90.92	345.27	N 14.7 W	89	7051.87	1315.66	887.82	-1142.43	1446.85	307.85	0.45	-0.45	0.04	5
Velocity	8387	8321	90.45	345.23	N 14.8 W	89	7050.80	1402.44	973.88	-1165.09	1518.52	309.89	0.53	-0.53	-0.04	5
Velocity	8477	8411	90.28	345.39	N 14.6 W	90	7050.23	1490.17	1060.94	-1187.91	1592.71	311.77	0.26	-0.19	0.18	5
Velocity	8566	8500	92.04	346.47	N 13.5 W	89	7048.43	1576.69	1147.25	-1209.55	1667.09	313.49	2.32	1.98	1.21	5
Velocity	8655	8589	91.81	347.13	N 12.9 W	89	7045.44	1662.87	1233.85	-1229.86	1742.10	315.09	0.78	-0.26	0.74	5
Velocity	8744	8678	90.65	345.35	N 14.7 W	89	7043.53	1749.27	1320.27	-1251.02	1818.83	316.54	2.39	-1.30	-2.00	5
Velocity	8833	8767	89.90	346.15	N 13.9 W	89	7043.10	1835.88	1406.53	-1272.93	1897.01	317.85	1.23	-0.84	0.90	5
Velocity	8922	8856	89.52	344.54	N 15.5 W	89	7043.55	1922.63	1492.63	-1295.44	1976.39	319.05	1.86	-0.43	-1.81	5
Velocity	9011	8945	89.58	341.12	N 18.9 W	89	7044.25	2010.15	1577.65	-1321.71	2058.13	320.04	3.84	0.07	-3.84	5
Velocity	9100	9034	89.35	339.06	N 20.9 W	89	7045.08	2098.35	1661.32	-1352.02	2141.94	320.86	2.33	-0.26	-2.31	5
Velocity	9189	9123	88.59	338.37	N 21.6 W	89	7046.68	2186.80	1744.23	-1384.32	2226.81	321.56	1.15	-0.85	-0.78	5
Velocity	9279	9213	90.36	338.52	N 21.5 W	90	7047.50	2276.30	1827.93	-1417.38	2313.07	322.21	1.97	1.97	0.17	5
Velocity	9368	9302	90.21	338.72	N 21.3 W	89	7047.06	2364.78	1910.81	-1449.83	2398.58	322.81	0.28	-0.17	0.22	5
Velocity	9457	9391	91.63	338.75	N 21.3 W	89	7045.63	2453.23	1993.73	-1482.10	2484.27	323.37	1.60	1.60	0.03	5
Velocity	9546	9480	91.56	338.01	N 22.0 W	89	7043.16	2541.72	2076.44	-1514.88	2570.30	323.89	0.83	-0.08	-0.83	5
Velocity	9635	9569	90.25	338.93	N 21.1 W	89	7041.75	2630.21	2159.22	-1547.54	2656.52	324.37	1.80	-1.47	1.03	5
Velocity	9724	9658	91.47	339.18	N 20.8 W	89	7040.41	2718.61	2242.32	-1579.35	2742.69	324.84	1.40	1.37	0.28	5
Velocity	9813	9747	91.49	339.56	N 20.4 W	89	7038.12	2806.93	2325.59	-1610.69	2828.90	325.29	0.43	0.02	0.43	5
Velocity	9902	9836	90.78	338.63	N 21.4 W	89	7036.35	2895.31	2408.71	-1642.44	2915.39	325.71	1.31	-0.80	-1.04	5



Company: Jay-Bee Oil & Gas
Well: Grumpy 6
Location: Tyler Co., WV
Rig: Precision 823
API No: 47-095-02630-00-00
Start Date: 10/03/21 Start Depth: 330

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Field: Marcellus
Location Lat/Long: 39.467725, -80.764212
End Date: 10/16/21 End Depth: 12900

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WV Department of
Environmental Protection
SW 12/13/22

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
Velocity	9991	9925	89.92	336.51	N 23.5 W	89	7035.81	2983.95	2490.97	-1676.40	3002.54	326.06	2.57	-0.97	-2.38	5
Velocity	10080	10014	89.47	337.19	N 22.8 W	89	7036.28	3072.68	2572.80	-1711.39	3090.01	326.37	0.92	-0.51	0.76	5
Velocity	10169	10103	89.92	337.65	N 22.4 W	89	7036.76	3161.34	2654.98	-1745.56	3177.41	326.68	0.72	0.51	0.52	5
Velocity	10258	10192	89.82	337.61	N 22.4 W	89	7036.96	3249.98	2737.28	-1779.43	3264.83	326.97	0.12	-0.11	-0.04	5
Velocity	10347	10281	90.24	338.53	N 21.5 W	89	7036.91	3338.55	2819.84	-1812.67	3352.21	327.27	1.14	0.47	1.03	5
Velocity	10436	10370	89.75	337.90	N 22.1 W	89	7036.92	3427.09	2902.48	-1845.70	3439.63	327.55	0.90	-0.55	-0.71	5
Velocity	10525	10459	89.45	338.00	N 22.0 W	89	7037.54	3515.68	2984.97	-1879.11	3527.20	327.81	0.36	-0.34	0.11	5
Velocity	10614	10548	89.84	338.64	N 21.4 W	89	7038.09	3604.21	3067.67	-1911.99	3614.74	328.07	0.84	0.44	0.72	5
Velocity	10703	10637	89.55	339.01	N 21.0 W	89	7038.57	3692.66	3150.66	-1944.14	3702.21	328.32	0.53	-0.33	0.42	5
Velocity	10792	10726	91.96	340.46	N 19.5 W	89	7037.39	3780.92	3234.14	-1974.96	3789.48	328.59	3.16	2.71	1.63	5
Velocity	10881	10815	91.90	339.38	N 20.6 W	89	7034.40	3869.11	3317.68	-2005.50	3876.73	328.85	1.21	-0.07	-1.21	5
Velocity	10971	10905	90.19	338.82	N 21.2 W	90	7032.75	3958.49	3401.74	-2037.60	3965.31	329.08	2.00	-1.90	-0.62	5
Velocity	11059	10993	89.87	338.52	N 21.5 W	88	7032.71	4045.97	3483.71	-2069.61	4052.10	329.29	0.50	-0.36	-0.34	5
Velocity	11149	11083	89.62	339.68	N 20.3 W	90	7033.11	4135.36	3567.79	-2101.71	4140.81	329.50	1.32	-0.28	1.29	5
Velocity	11238	11172	90.79	341.98	N 18.0 W	89	7032.79	4223.40	3651.85	-2130.94	4228.10	329.74	2.90	1.31	2.58	5
Velocity	11328	11262	91.13	343.62	N 16.4 W	90	7031.28	4311.91	3737.81	-2157.54	4315.81	330.01	1.86	0.38	1.82	5
Velocity	11417	11351	91.36	343.85	N 16.2 W	89	7029.35	4399.17	3823.22	-2182.47	4402.29	330.28	0.37	0.26	0.26	5
Velocity	11507	11441	90.81	344.20	N 15.8 W	90	7027.64	4487.32	3909.73	-2207.23	4489.75	330.55	0.72	-0.61	0.39	5
Velocity	11597	11531	91.01	343.66	N 16.3 W	90	7026.22	4575.50	3996.20	-2232.14	4577.35	330.81	0.64	0.22	-0.60	5
Velocity	11687	11621	91.29	341.78	N 18.2 W	90	7024.41	4664.04	4082.12	-2258.87	4665.43	331.04	2.11	0.31	-2.09	5
Velocity	11777	11711	90.56	340.14	N 19.9 W	90	7022.96	4753.03	4167.18	-2288.22	4754.09	331.23	1.99	-0.81	-1.82	5
Velocity	11867	11801	89.19	337.29	N 22.7 W	90	7023.15	4842.48	4251.03	-2320.89	4843.33	331.37	3.51	-1.52	-3.17	5
Velocity	11957	11891	90.12	336.78	N 23.2 W	90	7023.69	4932.18	4333.90	-2356.00	4932.89	331.47	1.18	1.03	-0.57	5
Velocity	12047	11981	90.07	336.05	N 24.0 W	90	7023.54	5021.97	4416.38	-2392.01	5022.56	331.56	0.81	-0.06	-0.81	5
Velocity	12136	12070	88.74	335.62	N 24.4 W	89	7024.47	5110.80	4497.57	-2428.44	5111.31	331.63	1.57	-1.49	-0.48	5
Velocity	12227	12161	90.05	334.97	N 25.0 W	91	7025.43	5201.68	4580.24	-2466.47	5202.12	331.70	1.61	1.44	-0.71	5
Velocity	12317	12251	90.93	336.01	N 24.0 W	90	7024.66	5291.55	4662.12	-2503.81	5291.92	331.76	1.51	0.98	1.16	5
Velocity	12407	12341	91.53	339.37	N 20.6 W	90	7022.73	5381.14	4745.35	-2537.96	5381.41	331.86	3.79	0.67	3.73	5
Velocity	12497	12431	91.19	339.63	N 20.4 W	90	7020.59	5470.43	4829.63	-2569.47	5470.60	331.99	0.48	-0.38	0.29	5
Velocity	12587	12521	90.52	338.47	N 21.5 W	90	7019.25	5559.82	4913.67	-2601.65	5559.92	332.10	1.49	-0.74	-1.29	5
Velocity	12677	12611	90.25	339.02	N 21.0 W	90	7018.64	5649.27	4997.54	-2634.27	5649.32	332.21	0.68	-0.30	0.61	5
Velocity	12767	12701	90.61	340.94	N 19.1 W	90	7017.97	5738.49	5082.10	-2665.08	5738.50	332.33	2.17	0.40	2.13	5
Velocity	12858	12792	90.75	344.13	N 15.9 W	91	7016.89	5828.06	5168.89	-2692.39	5828.06	332.49	3.51	0.15	3.51	5
Last Svy	12900	12834	90.38	345.50	N 14.5 W	42	7016.47	5869.08	5209.42	-2703.39	5869.10	332.57	3.38	-0.88	3.26	5
TD Proj	12900	12900	90.38	345.50	N 14.5 W	66	7016.04	5933.38	5273.31	-2719.91	5933.44	332.72	0.00	0.00	0.00	5

References:

Grumpy 6

N75°13'E
299.6'
16" R.O.

24" Poplar

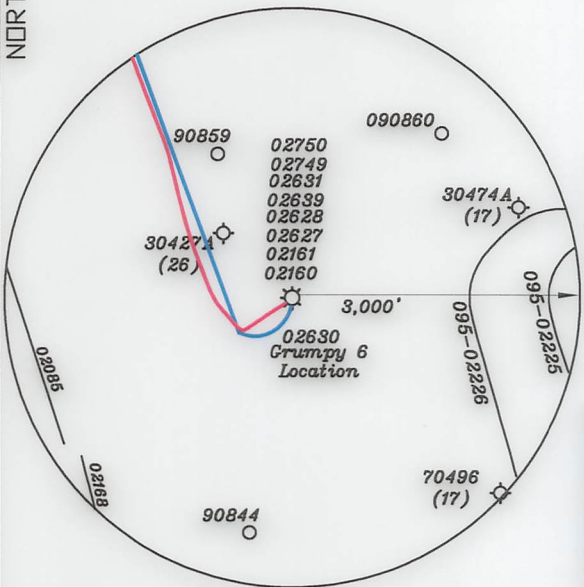
AsDrilled
Permitted

- A- Rush TM 2/13 8.88 Ac.
B- Edgar McHenry Trust TM 6/15 15.81 Ac.
C- Rayburn Heirs TM 6/16 15.82 Ac.
D- Thompson TM 6/17 26.36 Ac.
E- Diana Samson TM 6/19 42.0 Ac.
F- Fidle TM 7/17 23.73 Ac.
G- Fidle TM 7/18 26.36 Ac.
H- BC Farms Investments, LLC TM 7/19 22.85 Ac.
I- Westbrook TM 6/28 22.98 Ac.
J- Charles & Deloris Hagan TM 2/21 91.587 Ac.
K- Eldon Nichols TM 2/20 35.68 Ac.
L- Thomaselli TM 2/22.1 0.5 Ac.

— LEGEND —

- 500' from well bore path
--- Surface Tracts Within Lease
--- Lease Line
--- Adjoiner Line

NORTH



Note: All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats & aerial photos.

Top Hole—TH
Geo NAD 83— 39.467725 N, 80.764212 W
UTM NAD 83(Meters)—4368709.16 N, 520282.10 E
UTM NAD 83(Feet)—14333006.62 N, 1706959.15 E
Landing Point—LP
Geo NAD 83— 39.468249 N, 80.766918 W
UTM NAD 83(Meters)—4368766.69 N, 520049.27 E
UTM NAD 83(Feet)—14333195.39 N, 1706194.97 E
Bottom Hole—BH
Geo NAD 83— 39.482198 N, 80.773900 W
UTM NAD 83(Meters)—4370313.27 N, 519444.85 E
UTM NAD 83(Feet)—14338269.46 N, 1704211.99 E

NUMBER	DIRECTION	DISTANCE
L1	N51°47'W	3,514.4'
L2	N78°34'W	1,925.9'
L3	N75°48'W	934.5'

Top Hole—TH
Geo NAD 83— 39.467725 N, 80.764211 W
UTM NAD 83(Meters)—4368709.15 N, 520282.26 E
UTM NAD 83(Feet)—14333006.60 N, 1706959.40 E

Landing Point—LP
Geo NAD 83— 39.468319 N, 80.767432 W
UTM NAD 83(Meters)—4368774.40 N, 520005.09 E
UTM NAD 83(Feet)—14333220.68 N, 1706050.04 E

Bottom Hole—BH
Geo NAD 83— 39.482230 N, 80.773796 W
UTM NAD 83(Meters)—4370316.79 N, 519453.76 E
UTM NAD 83(Feet)—14338281.00 N, 1704241.22 E

(+) 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 JacksonR.P.E. _____ P.S. 708

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

DATE June 16, 2022
OPERATOR'S WELL NO. Grumpy 6
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 095 PERMIT 02630
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,298.7' WATER SHED Woodburn Run of Outlet Middle Island Creek (HUC-10)
DISTRICT McElroy COUNTY Tyler
QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Diana Samson ACREAGE 42.0 Ac.
OIL & GAS ROYALTY OWNER Diana Samson LEASE ACREAGE 42.0 Ac.
LEASE NO. See above

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 7,054' TMD = 12,900'
WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Deborah Broda-Morgan
ADDRESS 16 South Avenue W, Ste 118, Cranford NJ 07016 ADDRESS 429 Simonton Road, Ellenboro WV 26346