

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

API 47-095-02631 County Tyler District McElroy
Quad Shirley Pad Name Grumpy Field/Pool Name _____
Farm name Diana Sampson Well Number 7
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 4368706.40 Easting 520283.44
Landing Point of Curve Northing 4368820.26 Easting 519771.80
Bottom Hole Northing 4370228.60 Easting 519202.72

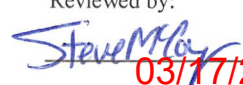
Elevation (ft) 1,298.9' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution 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 10/8/2019 (tophole) Date drilling ceased 10/03/2021
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:

03/17/2023
10/3/22

API 47- 095 - 02631 Farm name Daina Samson Well number 7

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	2,533	N	24#/J55	100'/2400'	Y
Intermediate 2							
Intermediate 3							
Production	7.875	5-1/2	12,613	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	761	15.6	1.18	898	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A, FLY ASH, MPA-170, R-3	1,998	14.50	1.17	2,337	SURFACE	8
Tubing							

Drillers TD (ft) 12,635' MD Loggers TD (ft) 12,635'
 Deepest formation penetrated MARCELLUS Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 6,826'

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

RECEIVED
Office of Oil and Gas

JUL 07 2022

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WV Department of
Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

SM
03/17/2023
10/31/22

API 47-095 - 02631 Farm name Daina Samson Well number Grumpy 7

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1-29-21	12522	12430	72	Marcellus
2	1-30-21	12404	12196	72	Marcellus
3	1-30-21	12150	11987	72	Marcellus
4	12-31-21	11938	11792	72	Marcellus
5	1-1-22	11751	11597	72	Marcellus
6	1-1-22	11548	11414	72	Marcellus
7	1-1-22	11366	11248	72	Marcellus
8	1-1-22	11184	11020	72	Marcellus
9	1-1-22	10980	10807	72	Marcellus
10	1-2-22	10752	10585	72	Marcellus
11	1-2-22	10512	10407	72	Marcellus
12	1-2-22	10343	10216	72	Marcellus
13	1-2-22	10172	10085	72	Marcellus
14	1-3-22	10056	9898	72	Marcellus
15	1-3-22	9846	9702	72	Marcellus
16	1-4-22	9650	9491	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	74.9	7344	7258	4356	226691	9186	N/A
2	12-30-21	75.1	7203	7311	4316	259820	8410	N/A
3	12-31-21	73.9	7226	7241	4299	259889	8321	N/A
4	12-31-21	75.3	7206	7218	4402	261997	8149	N/A
5	12-31-21	74.9	7040	7189	4389	261542	8013	N/A
6	1-1-22	75.1	6917	7222	4318	260459	7588	N/A
7	1-1-22	74.4	6807	7169	4293	261976	9115	N/A
8	1-1-22	74.9	6732	7218	4273	262132	8185	N/A
9	1-2-22	75.3	7156	7258	4315	260269	8054	N/A
10	1-2-22	75.4	7009	7211	4296	259909	7956	N/A
11	1-2-22	74.9	6469	7172	4237	259777	8095	N/A
12	1-2-22	75.1	6639	7105	4299	259318	7886	N/A
13	1-3-22	75.1	6668	7167	4258	260307	7788	N/A
14	1-3-22	74.7	6720	7142	4357	260179	7929	N/A
15	1-3-22	75.4	6740	7216	4408	259914	7399	N/A
16	1-4-22	74.8	6469	7157	4396	260349	7724	N/A

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas
JUL 07 2022
WV Department of Environmental Protection

Sm
03/17/2023

API 47- 095 - 02631 Farm name Daina Samson Well number Grumpy 7

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	1-4-22	9435	9300	72	Marcellus
18	1-4-22	9247	9096	72	Marcellus
19	1-4-22	9050	8920	72	Marcellus
20	1-4-22	8858	8689	72	Marcellus
21	1-5-22	8648	8542	72	Marcellus
22	1-5-22	8482	8359	72	Marcellus
23	1-5-22	8290	8104	72	Marcellus
24	1-6-22	8053	7902	72	Marcellus
25	1-9-22	7864	7660	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	74.5	6450	6963	4420	260723	7912	N/A
18	1-4-22	74.6	6710	6822	4396	261498	7783	N/A
19	1-4-22	75.3	6732	6759	4459	260067	7713	N/A
20	1-5-22	75.2	6646	6781	4398	252803	7649	N/A
21	1-5-22	74.3	6374	6622	4410	259900	7979	N/A
22	1-5-22	75.2	6529	6589	4489	259888	7713	N/A
23	1-6-22	74.6	6607	6552	4502	261078	7758	N/A
24	1-6-22	74.5	6348	6475	4472	260000	7979	N/A
25	1-9-22	74.9	6527	6489	4483	260798	7719	N/A

RECEIVED
Office of Oil and Gas
JUL 07 2022
WV Department of
Environmental Protection

Please insert additional pages as applicable.

SM
03/17/2023

OIL AND GAS RECLAMATION NOTICE

TO:

Name _____

Address _____

Name _____

Address _____

Name _____

Address _____

Pursuant to West Virginia Code 22-7, notice is hereby given that the undersigned well operator is commencing the reclamation of the surface disturbance caused by well work required by West Virginia Code 22-6-30 on the tract of land as follows:

API Permit No. 47- 095 - 02631 _____;
Acreage 42.00 _____;
Watershed Woodburn Run of Outlet Middle Island Creek (HUC-10) _____;
District McElroy _____;
County Tyler _____;
Public Road Access Wildman Run _____;
Generally used farm name Diana Samson _____.

This tract of land was utilized in connection with the well work authorized by the permit listed above issued by the Office of Oil and Gas of the West Virginia Department of Environmental Protection.

Any claim for oil and gas production damage compensation from the undersigned must be made within 2 years of the publication of this notice.

Well Operator Jay- Bee Oil and Gas, INC.
Address 429 Simonton Road
Ellenboro, WV 26346
Telephone 304-628-3111

RECEIVED
Office of Oil and Gas

JUL 07 2022

WV Department of
Environmental Protection

SM
10/31/27
03/17/2023

API 47- 095 - 02631 Farm name Diana Sampson Well number 7

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>7.042'</u>	TVD	<u>12,635'</u> MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2428 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5085.0 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 Potesta Telephone 304-628-3111
Signature  Title Regulatory Agent Date 10/18/2022

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

SM
03/17/2023
10/31/22

PAD-WELL	Grumpy No. 7		
ELEVATION	1299		
PERMIT	47-095-02631		
	TOP TVD	BOTTOM TVD	
Carroll Sand	340	375	
Murphy Sand	497	521	
1st Cow Run Sand	545	557	
Little Dunkard Sand	636	686	
Dunkard Sand	776	878	
sandstone	990	1005	
2nd Cow Run Sand	1057	1096	
Gas Sand	1139	1146	
1st Salt	1443	1485	
2nd Salt	1602	1647	
3rd Salt	1820	1886	
Maxon			
Big Lime	2285	2347	
Big Injun	2410	2492	Gas show
Berea			
Gordon	3063	3089	Gas show
Fifth	3286	3296	
Warren	3758	3800	
Riley	4720	4,735	
Benson	5270	5,273	
Alexander	5648	5,684	
Hamilton	5926	6,538	Gas show
Upper Marcellus (Geneseo)	6935	6968	Gas show
Purcell (Tully Lm)	6969	6973	
Marcellus	7021		Gas show
Cherry Valley			

SM
03/17/2023
10/31/22

Hydraulic Fracturing Fluid Product Component Information Disclosure

RECEIVED
Office of Oil and Gas

JUL 07 2022

WV Department of
Environmental Protection

Job Start Date:	12/30/2021
Job End Date:	1/9/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02631-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Grumpy 7
Latitude:	39.46780000
Longitude:	-80.76419500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,042
Total Base Water Volume (gal):	8,555,371
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	91.41911	
DynaScale™ 3511	CWS	Scale Inhibitor					
				Listed Below			

CalGuard™ 9100	CWS	Corrosion Inhibitor					
				Listed Below			
CalGel™ 4000	CWS	Gel Slurry					
				Listed Below			
MBC 12:3	CWS	Microbiocide					
				Listed Below			
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			
CalBreak™ 5700	CWS	Breaker					
				Listed Below			
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
DynaRate™ 6459	CWS	Friction Reducer					
				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	8.28553	
			Hydrochloric acid	7647-01-0	37.00000	0.16088	

RECEIVED
Office of Oil and Gas
JUL 07 2022
WV Department of
Environmental Protection

SM

		Calcite	471-34-1	1.00000	0.05720	RECEIVED Office of Oil and Gas JUL 07 2022 WV Department of Environmental Protection
		Illite	12173-60-3	1.00000	0.02565	
		Guar gum	9000-30-0	60.00000	0.00861	
		Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.00861	
		Apatite	64476-38-6	0.10000	0.00828	
		Biotite	1302-27-8	0.10000	0.00828	
		Goethite	1310-14-1	0.10000	0.00828	
		Glutaraldehyde	111-30-8	14.00000	0.00335	
		Ilmenite	98072-94-7	0.10000	0.00257	
		Ethanol	64-17-5	3.00000	0.00072	
		Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00072	
		Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00072	
		Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.00000	0.00072	
		Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00022	
		Ethylene Glycol	107-21-1	40.00000	0.00014	
		Diethylene glycol, monomethyl ether	34590-94-8	20.00000	0.00007	
		Ammonium chloride ((NH4)Cl)	12125-02-9	5.00000	0.00007	
		Distillates (petroleum), hydrotreated light	64742-47-8	3.00000	0.00007	
		Hydrogen peroxide (H2O2)	7722-84-1	8.00000	0.00004	
		Formic acid	64-18-6	10.00000	0.00003	
		Cinnamaldehyde	104-55-2	10.00000	0.00003	
		Ethoxylated Alcohols	68131-39-5	10.00000	0.00003	
		Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00003	

SN

			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			Inorganic Salt	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Proprietary Polymer 1	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Organic Acid Ether	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Inorganic Acid Salt	Proprietary		0.00001	Proprietary CAS & Additive Concentration

SM

* 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)

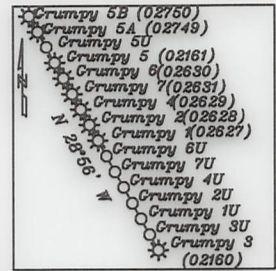
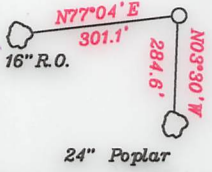
RECEIVED
Office of Oil and Gas

JUL 07 2022

WV Department of
Environmental Protection

References:

Grumpy 7



- A- Edgar McHenry Trust TM 6/15 15.81 Ac.
B- Rayburn Heirs TM 6/16 15.82 Ac.
C- Thompson TM 6/17 26.36 Ac.
D- Diana Samson TM 6/19 42.0 Ac.
E- Fidle TM 7/17 23.73 Ac.
F- Fidle TM 7/18 26.36 Ac.
G- BC Farms Investments, LLC TM 7/19 22.85 Ac.
H- Westbrook TM 6/28 22.98 Ac.
I- Tallman TM 6/31 14.75 Ac.
J- Charles Hagan TM 2/21 91.587 Ac.
K- Eldon Nichols TM 2/20 35.68 Ac.
L- Rush TM 2/13 8.88 Ac.

LEGEND

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

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.

NORTH

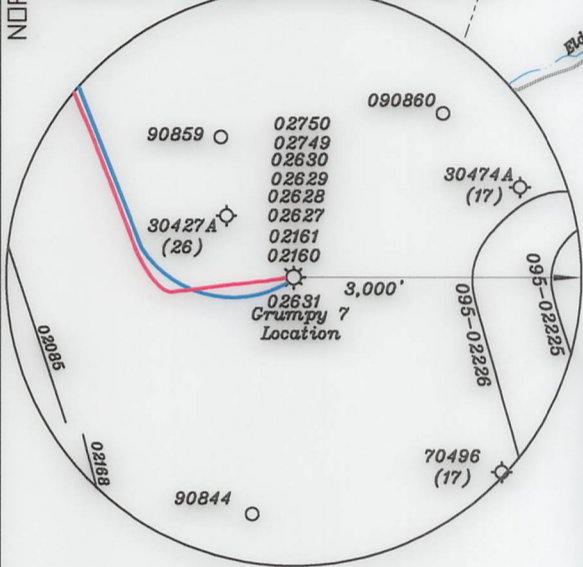


Table with 3 columns: Top Hole-TH, Landing Point-LP, Bottom Hole-BH. Each row contains Geo NAD 83, UTM NAD 83 (Meters), and UTM NAD 83 (Feet) coordinates.

Table with 3 columns: NUMBER, DIRECTION, DISTANCE. Rows include L1 (N51°51'W, 3,505.9'), L2 (N78°49'W, 1,920.5'), L3 (N76°30'W, 1,720.3').

Table with 3 columns: Top Hole-TH, Landing Point-LP, Bottom Hole-BH. Each row contains Geo NAD 83, UTM NAD 83 (Meters), and UTM NAD 83 (Feet) coordinates.

(+) 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



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

DATE June 16, 2022
OPERATOR'S WELL NO. Grumpy 7
API WELL NO.

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

LOCATION: ELEVATION 1,298.9' 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) As Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 7,042'; TMD = 12,635'
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

LONGITUDE 80-45-00 W Bottom Hole 6,760'
LONGITUDE 80-45-00 W Top Hole 11,765'