

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

API 47-095-02141 County Tyler District McElroy
Quad Shirley Pad Name Gorby Field/Pool Name _____
Farm name Gorby Well Number Gorby 2
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Rd. City Cairo State WV Zip 26337

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,368,667.702 Easting 517,431.072
Landing Point of Curve Northing N/A Easting _____
Bottom Hole Northing 4,366,775.473 Easting 518,192.175

Elevation (ft) 1276' 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)
ABS 40 (Aliphatic Base System)

Date permit issued 5/23/2014 Date drilling commenced 10/6/2014 Date drilling ceased 11/13/2014
Date completion activities began 1/4/2015 Date completion activities ceased 2/5/2015
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 215' Open mine(s) (Y/N) depths Office of Oil and Gas
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,690' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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APR 04 2016
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Reviewed by

APPROVED

NAME: JUSTIN SINGER
DATE: 6/7/16

4x 06/11/2016
WS

API 47-095 - 02141 Farm name Gorby Well number Gorby 2

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	17"	16"	30	New	20/32/24		Y
Surface	15"	11 3/4"	577'	New	20/23/24	50'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,410'	New	20/17/24	1500'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	13,192'	New	20		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	315	15.2	1.36	269	CTS	8
Coal							
Intermediate 1	Class A	630	14.7	1.42	611	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	1725	14.4	1.32	2,277	47' from surface	8
Tubing							

Drillers TD (ft) 13,192' Loggers TD (ft) 13,192'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,120'

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'.

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 - 02141

Farm name Gorby

Well number Gorby 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1/4/15	13130	12960	96	Marcellus
2	1/5/15	12912	12776	72	Marcellus
3	1/6/15	12734	12550	72	Marcellus
4	1/6/15	12506	12330	72	Marcellus
5	1/7/15	12296	12134	72	Marcellus
6	1/8/15	12094	11933	72	Marcellus
7	1/8/15	11880	11720	72	Marcellus
8	1/9/15	11685	11500	72	Marcellus
9	1/9/15	11438	11298	72	Marcellus
10	1/9/15	11253	11074	72	Marcellus
11	1/10/15	11038	10869	72	Marcellus
12	1/10/15	10806	10648	72	Marcellus
13	1/10/15	10616	10470	72	Marcellus
14	1/13/15	10419	10196	72	Marcellus
15	1/13/15	10154	9977	72	Marcellus
16	1/14/15	9933	9784	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	1/4/25	70.7	6847	7095	4633	180395	7734	N/A
2	1/5/15	70.8	6958	5766	4355	183109	7878	N/A
3	1/6/15	71.7	6713	5778	5117	179697	5708	N/A
4	1/6/15	70.8	6723	6880	4877	184989	7870	N/A
5	1/7/15	70.5	6595	7294	4629	171687	6983	N/A
6	1/8/15	70.5	6677	6918	4344	180763	6470	N/A
7	1/8/15	70.6	6556	6800	4348	180053	6957	N/A
8	1/9/15	70.8	6453	9068	4311	182029	7004	N/A
9	1/9/15	71.4	6608	7348	4264	181440	7021	N/A
10	1/9/15	71.7	6473	6649	5164	179534	6790	N/A
11	1/10/15	70.1	6333	9178	4565	181758	7200	N/A
12	1/10/15	69.9	6348	6581	4937	179565	7121	N/A
13	1/10/15	70.5	6333	6251	4008	180470	78943	N/A
14	1/13/15	69.8	6100	6202	4109	181165	7006	N/A
15	1/13/15	69.3	6224	6670	4193	179183	6452	N/A
16	1/14/15	68.8	6175	6377	4790	180329	6435	N/A

Please insert additional pages as applicable.

WV Department of Environmental Protection
APR 17 2016
Office of Oil and Gas

API 47- 095 - 02141

Farm name Gorby

Well number Gorby 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	1/15/15	9729	9590	72	Marcellus
18	1/15/15	9528	9396	72	Marcellus
19	1/15/15	9339	9154	72	Marcellus
20	1/16/15	9098	8940	72	Marcellus
21	1/16/15	8900	8730	72	Marcellus
22	1/16/15	8684	8524	72	Marcellus
23	1/16/15	8480	8320	72	Marcellus
24	1/16/15	8282	8114	72	Marcellus
25	1/17/15	8075	7890	72	Marcellus
26	1/17/15	7856	7667	72	Marcellus
27	1/17/15	7619	7474	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	1/15/15	70.0	6181	7681	4486	181481	6648	N/A
18	1/15/15	71.3	6350	7135	4579	179323	7338	N/A
19	1/15/15	70.9	6214	8010	4327	183100	6750	N/A
20	1/16/15	70.8	6350	6700	4450	182177	6485	N/A
21	1/16/15	71.9	6363	6570	4590	181038	6805	N/A
22	1/16/15	68.4	6083	6372	4581	180942	6295	N/A
23	1/16/15	69.5	6410	6948	4744	177621	6308	N/A
24	1/16/15	71.5	6347	6637	3939	182350	6286	N/A
25	1/17/15	72.2	6051	6216	4628	180013	6265	N/A
26	1/17/15	71.0	6256	6596	3955	182188	6191	N/A
27	1/17/15	71.3	6168	6423	4327	181764	6148	N/A

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API 47- 095 - 02141 Farm name Gorby Well number Gorby 2

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,986'</u>	<u>TVD</u>	<u>13,192'</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 1700 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6000 mcfpd Oil 50 bpd NGL _____ bpd Water 200 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
<u>See Attached.</u>	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

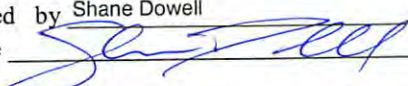
Drilling Contractor Horizontal Well Drillers
Address 2915 SH 74 South City Purcell State OK Zip 73080

Logging Company Precise Well Analysis
Address 1426 Barth Rd. City Belpre State OH Zip 45714

Cementing Company Nabors Completion & Production
Address 1650 Hackers Creek Rd. City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26378

Please insert additional pages as applicable.

Completed by Shane Dowell Telephone 304-628-3111
Signature  Title Office Manager Date 4-1-2016

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

Lithology

Gorby 2 47-095-02141

FORMATION	TOP	BOTTOM
MISC. RED ROCK & SHALES	0	2372
LIME	2372	2472
INJUN	2472	2589
SHALE	2589	2936
GORDON STRAY	2936	2956
SHALE	2956	3152
GORDON	3152	3182
SHALE	3182	3461
BAYARD	3461	3470
SHALE	3470	3799
WARREN	3799	3897
SHALE	3897	4133
BALLTOWN	4133	4296
SHALE	4296	4734
2ND RILEY	4734	4842
SHALE	4842	4993
3RD RILEY	4993	5034
SHALE	5034	5091
BENSON	5091	5094
SHALE	5094	5336
ALEXANDER	5336	5507
SHALE	5507	5752
ELK	5752	5800
SHALE	5800	6039
HAMILTON	6039	6213
SHALE	6213	6869
UPPER Marcellus	6869	6875
PARCELL LIME	6875	6910
SHALE	6910	6968
LOWER MARCELLUS	6968	

06/17/2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/4/2015
Job End Date:	1/17/2015
State:	West Virginia
County:	Tyler
API Number:	47-095-02141-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	GORBY 2
Longitude:	-80.78766000
Latitude:	39.45187000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,986
Total Base Water Volume (gal):	8,870,484
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	Operator	Carrier	Water	7732-18-5	100.00000	92.29483	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.12312	
Sand, White, 30/50	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.07256	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.77482	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.53809	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.04740	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.03087	SmartCare Product
Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.02563	SmartCare Product

Alpha 1427	Baker Hughes	Biocide					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.02255	SmartCare Product
Enzyme G-NE	Baker Hughes	Breaker					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01693	SmartCare Product
Ferrotrol 300L	Baker Hughes	Iron Control					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00362	SmartCare Product
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00309	
CI-14	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00167	SmartCare Product
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.							
Ingredients in Additive (s) (MSDS and non-MSDS)	Baker Hughes	See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	6.96713	
			Water	7732-18-5	95.00000	0.52265	
			Hydrochloric Acid	7647-01-0	15.00000	0.08069	
			Mineral Oil	8042-47-5	70.00000	0.02160	
			Guar Gum	9000-30-0	60.00000	0.01852	
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.01421	
			Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4	30.00000	0.01421	
			Ethylene Glycol	107-21-1	45.00000	0.01153	
			Petroleum Distillates	64742-47-8	30.00000	0.00926	
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.00926	
			Glutaraldehyde	111-30-8	30.00000	0.00676	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000	0.00512	
			Sodium Chloride	7647-14-5	5.00000	0.00263	
			Methanol	67-56-1	100.00000	0.00228	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00225	
			Citric Acid	77-92-9	60.00000	0.00217	
			Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00154	
			Crystalline Silica: Quartz	14808-60-7	5.00000	0.00154	
			1-butoxy-2-propanol	5131-66-8	5.00000	0.00154	
			Ammonium Chloride	12125-02-9	3.00000	0.00142	
			Calcium Chloride	10043-52-4	5.00000	0.00128	
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00113	
			Ethanol	64-17-5	5.00000	0.00113	
			Oleamide DEA	93-83-4	2.00000	0.00095	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00095	
			Hemicellulase Enzyme Concentrate	9025-56-3	5.00000	0.00085	

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			Surfactant	9016-45-9	15.00000	0.00083
			Polyoxyalkylenes	68951-67-7	30.00000	0.00050
			Potassium Chloride	7447-40-7	1.00000	0.00026
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00024
			Sorbitan Monooleate	1338-43-8	0.50000	0.00024
			Fatty Acids	61790-12-3	10.00000	0.00017
			Modified Thiourea Polymer	68527-49-1	7.00000	0.00012
			Propargyl Alcohol	107-19-7	5.00000	0.00008
			Olefin	64743-02-8	5.00000	0.00008
			2-butoxy-1-propanol	15821-83-7	0.10000	0.00003
			Formaldehyde	50-00-0	1.00000	0.00002

* 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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Top Hole Latitude: 39°39'30" 1602'

Bottom Hole Latitude: 39°27'30" 10887'

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

LINE	BEARING	DISTANCE
L1	N 05°48'35" W	997.71'
L2	S 84°39'10" E	900.30'

AS-DRILLED

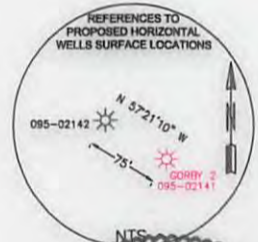
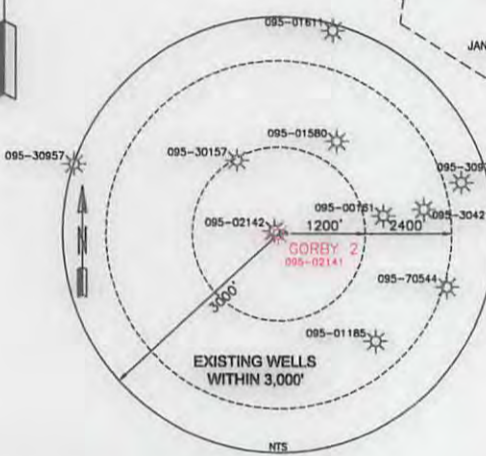
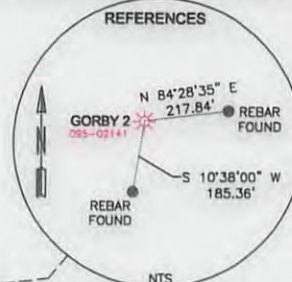
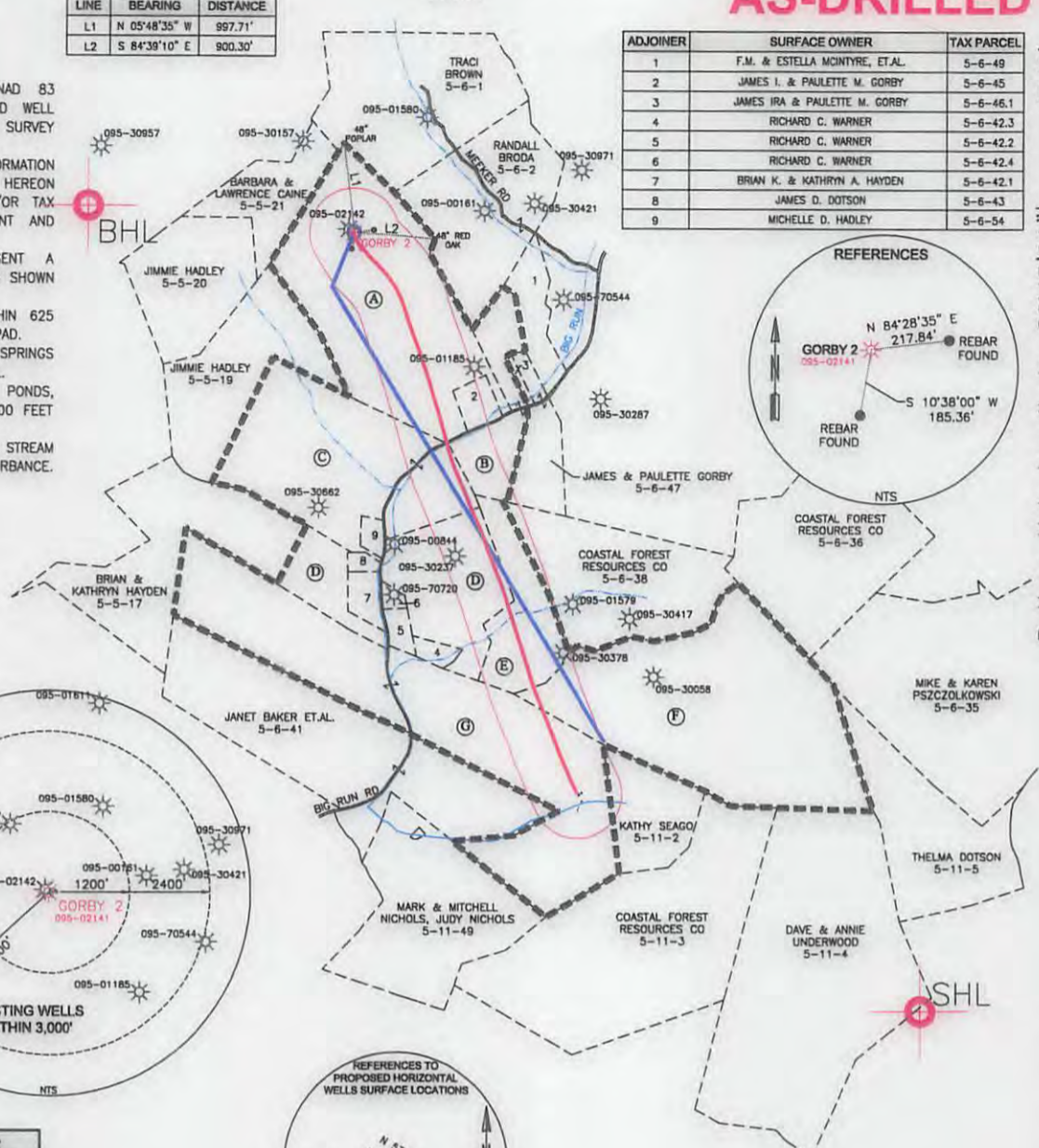
ADJOINER	SURFACE OWNER	TAX PARCEL
1	F.M. & ESTELLA MCINTYRE, ET AL.	5-6-49
2	JAMES I. & PAULETTE M. GORBY	5-6-45
3	JAMES IRA & PAULETTE M. GORBY	5-6-46.1
4	RICHARD C. WARNER	5-6-42.3
5	RICHARD C. WARNER	5-6-42.2
6	RICHARD C. WARNER	5-6-42.4
7	BRIAN K. & KATHRYN A. HAYDEN	5-6-42.1
8	JAMES D. DOTSON	5-6-43
9	MICHELLE D. HADLEY	5-6-54

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

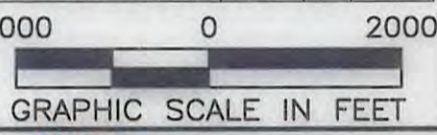
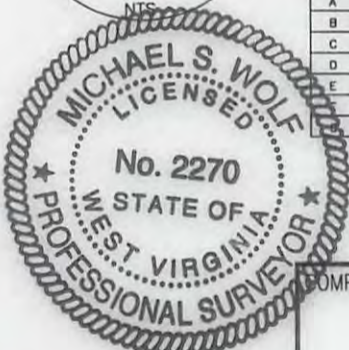
Bottom Hole Longitude: 80°45'00" 11874'

Top Hole Longitude: 80°47'30"



SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,368,667.702	
EASTING: 517,431.072	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.467414°	
LONGITUDE: -80.797358°	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,366,775.473	
EASTING: 518,192.175	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.450348°	
LONGITUDE: -80.788562°	

TRACT	SURFACE OWNER	TAX PARCEL	ACRES	LEASE NO.
A	JAMES IRA & PAULETTE M. GORBY	5-6-44	105.5	T-312912
B	JAMES IRA & PAULETTE M. GORBY	5-6-46	18.74	T-3104E-1
C	JIMMIE & RHAEE HADLEY	5-5-18	87.10	T-3127B
D	JIMMIE & RHAEE HADLEY	5-6-42	35.07	T-34
E	COASTAL FOREST RESOURCES CO	5-6-39	23.00	RPT-3
	RONALD HOOVER	5-6-37	108.0	T-3133
	ANTHONY ANDREW HAUGHT & AMY JO HAUGHT	5-6-40	93.0	TI-03



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2270 *M.S. Wolf* 3/31/16

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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

OPERATOR'S WELL #: GORBY 2

API WELL #: 47 095 02141H6A

STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BIG RUN ELEVATION: 1276'

DISTRICT: MCELROY COUNTY: TYLER QUADRANGLE: SHIRLEY

SURFACE OWNER: JAMES I. GORBY & PAULETTE GORBY ACREAGE: 105.50±

OIL & GAS ROYALTY OWNER: BARBARA CAINE, ET AL.; ENLOE GATTELL, ET AL.; RONALD L. HOOVER, ET AL.; JACK T. WATSON, ET AL.; WYNIC FOUT, LLC, ET AL.; JAMES IRA GORBY, ET AL.; J.E. SPENCER ACREAGE: 470.41±

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **06/17/2016**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD 13,192' TVD 6,986'

WELL OPERATOR: JAY BEE OIL & GAS, INC. DESIGNATED AGENT: RANDY BRODA

ADDRESS: 1720 RT. 22, EAST ADDRESS: RT. 1 BOX 5

CITY: UNION STATE: NJ ZIP CODE: 07083 CITY: CAIRO STATE: WV ZIP CODE: 26337

LEGEND:	REVISIONS:	DATE:
● PROPOSED SURFACE HOLE / BOTTOM HOLE		03-31-2016
⊙ EXISTING / PRODUCING WELLHEAD	----- LEASE BOUNDARY	
⊗ ABANDONED WELL	----- 500' DHP BUFFER	
⊗ PLUGGED & ABANDONED WELL	----- AS-DRILLED DHP	
△ CUT CONDUCTOR	----- PLANNED DHP	
		DRAWN BY: E. LYTLE
		SCALE: 1" = 2000'
		DRAWING NO: 050-5824
		ASDRILLED PLAT

Top Hole Latitude: 39°39'30" — 1602'

Bottom Hole Latitude: 39°27'30" — 10887'

AS-DRILLED



THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-824-4108

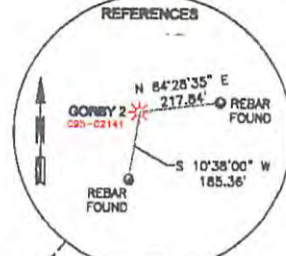
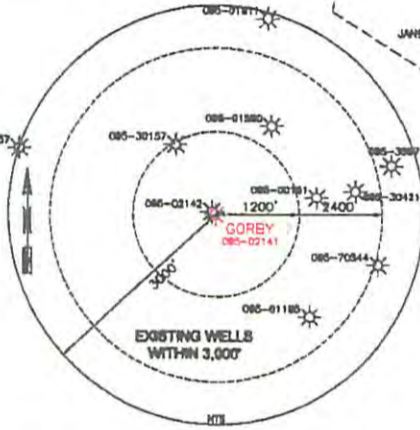
NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LINE	BEARING	DISTANCE
L1	N 02°48'30" W	887.71'
L2	S 84°38'10" E	860.30'

ADJOINER	SURFACE OWNER	TAX PARCEL
1	F.M. & ESTELLA MCINTYRE, ET AL.	5-8-40
2	JAMES I. & PAULETTE M. GORBY	5-8-45
3	JAMES I. & PAULETTE M. GORBY	5-8-48.1
4	RICHARD C. WARNER	5-8-42.3
5	RICHARD C. WARNER	5-8-42.2
6	RICHARD C. WARNER	5-8-42.4
7	BRYAN K. & KATHRYN A. HAYDEN	5-8-42.1
8	JAMES D. DOTSON	5-8-43
9	MICHELLE D. HADLEY	5-8-54

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,368,667.702
	EASTING: 517,431.072
GEOGRAPHIC (NAD83):	LATITUDE: 39.467414°
	LONGITUDE: -80.797358°
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,366,775.473
	EASTING: 518,192.175
GEOGRAPHIC (NAD83):	LATITUDE: 39.450348°
	LONGITUDE: -80.788562°

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



TRACT	SURFACE OWNER	TAX PARCEL	ACRES	LEASE NO.
A	JAMES IRA & PAULETTE M. GORBY	5-8-44	108.5	T-312972
B	JAMES IRA & PAULETTE M. GORBY	5-8-45	18.74	T-31046-1
C	JAMIE & RHEE HADLEY	5-5-18	87.10	T-31278
D	JAMIE & RHEE HADLEY	5-8-42	38.07	T-34
E	COASTAL FOREST RESOURCES CO	5-8-38	23.00	NPT-3
	RONALD HOOVER	5-8-37	108.0	T-3133
	ANTHONY ANDREW HAUGHT & AMY JO HAUGHT	5-8-40	93.0	TI-03



P.S. 2270 *M.S.W.* 3/31/16

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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

OPERATOR'S WELL #: GORBY 2

API WELL #: 47 095 02141H6A

STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BIG RUN ELEVATION: 1276'

DISTRICT: MCELROY COUNTY: TYLER QUADRANGLE: SHIRLEY

SURFACE OWNER: JAMES I. GORBY & PAULETTE GORBY ACREAGE: 105.50±

OIL & GAS ROYALTY OWNER: JAMES I. GORBY, ET AL.; ESTELLA MCINTYRE, ET AL.; JAMES L. HUBER, ET AL.; JACK T. WIRTH, ET AL.; WYNNE FORT, U.S. ET AL. ACREAGE: 470.41±

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CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD 13,100' ±

WELL OPERATOR: JAY BEE OIL & GAS, INC. ADDRESS: 1720 RT. 22, EAST CITY: UNION STATE: NJ ZIP CODE: 07083

DESIGNATED AGENT: RANDY BRODA ADDRESS: RT. 4, BOX 5, OFFICE OF OIL & GAS CITY: CARO STATE: WV ZIP CODE: 26337

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	APR 04 2016	03-31-2016
★ EXISTING / PRODUCING WELLHEAD		
⊗ ABANDONED WELL		
⊗ PLUGGED & ABANDONED WELL		
△ CUT CONDUCTOR		
----- LEASE BOUNDARY		
----- 500' DHP BUFFER		
----- AS-DRILLED DHP		
----- PLANNED DHP		
	WV Department of Environmental Protection	DRAWN BY: E. LYTLE
		SCALE: 1" = 200'
		DRAWING NO. 050-5824
		AS DRILLED PLAT

Bottom Hole Longitude: 80°45'00" — 2945'

Top Hole Longitude: 80°47'30" — 11874'