

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

RECEIVED  
Office Of Oil and Gas

AUG 1 2023

API 47 - 095 - 02806 County Tyler District McElroy WV Department of Environmental Protection  
Quad Shirley 7 1/2" Pad Name T1-03 Field/Pool Name \_\_\_\_\_  
Farm name Edsel Hoover, et al Well Number 1A  
Operator (as registered with the OOG) 24610  
Address 429 Simonton Road City Ellenboro State WV Zip 26346

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4366589.84 Easting 517033.67  
Landing Point of Curve Northing 4366396.02 Easting 516790.43  
Bottom Hole Northing 4364839.58 Easting 518873.75

Elevation (ft) 724.1 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 Based Mud (SOBM), K-49 (Base Oil), Barite, Anco Mul P, Anco Mul OW, Anco Mul XL, Anco Mul Mod  
Anco Mul OW Claytone 3, Lime, Calcium Chloride Powder, Phalt S, Mica, Cal-Carb

Date permit issued 8-9-2022 Date drilling commenced 9-23-2022 Date drilling ceased 3-26-2023  
Date completion activities began 4-7-2023 Date completion activities ceased 5-18-2023  
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 65'-90' 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

**APPROVED**

Reviewed by: [Signature]  
12/01/2023

API 47- 095 - 02806 Farm name Edsel Hoover, et al Well number 1A

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"	88'	New	87.5# J-55	n/a	Grouted
Surface	17.5"	13.375"	349'	New	48# H-40	42'	Yes
Coal							
Intermediate 1	11"	8.625"	2,021'	New	24# J-55	1,978'-294'	Yes
Intermediate 2							
Intermediate 3							
Production	7.875"	5.5"	15,422'	New	20# P-110	n/a	Yes
Tubing							
Packer type and depth set	n/a						

Comment Details Surface CTS with 20% OH excess / Intermediate 1 CTS with 30% OH excess / Production 300' from surface with 15 % OH excess

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	n/a	n/a	n/a	n/a	CTS	8 hours
Surface	Class A	283	15.6	1.19	337	CTS	8 hours
Coal							
Intermediate 1	Class A	603	15.6	1.19	708	CTS	8 hours
Intermediate 2							
Intermediate 3							
Production	Class A	2356	14.5	1.19	2,769	300'	8 hours
Tubing							

Drillers TD (ft) 15,466'      Loggers TD (ft) 15,466'  
 Deepest formation penetrated Marcellus      Plug back to (ft) n/a  
 Plug back procedure n/a

Kick off depth (ft) 5,960'

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 \_\_\_\_\_  
5.5" vertical centralizers every 500' horizontal and curve centralizers every other joint or one every 84'  
8.625" int. casing bow spring centralizers ran every 400'  
13.375" surface casing centralizing basket ran on 2nd joint and 2nd to last 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 \_\_\_\_\_

12/01/2023



API 47- 095 - 02806 Farm name Edsel Hoover, et al Well number T1-03-1A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4-7-23	15334	15204	72	MARCELLUS
2	4-7-23	15164	15002	72	MARCELLUS
3	4-8-23	14948	14776	72	MARCELLUS
4	4-8-23	14728	14536	72	MARCELLUS
5	4-9-23	14464	14312	72	MARCELLUS
6	4-10-23	14272	14100	72	MARCELLUS
7	4-11-23	14058	13900	72	MARCELLUS
8	4-12-23	13846	13677	72	MARCELLUS
9	4-12-23	13639	13474	72	MARCELLUS
10	4-12-23	13436	13250	72	MARCELLUS
11	4-13-23	13208	13052	72	MARCELLUS
12	4-14-23	13008	12846	72	MARCELLUS
13	4-14-23	12786	12622	72	MARCELLUS
14	4-15-23	12578	12402	72	MARCELLUS
15	4-15-23	12357	12166	72	MARCELLUS
16	4-16-23	12100	11938	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	4-7-23	65.8	6970	5287	3699	332611	10367	N/A
2	4-8-23	71.3	7305	5347	4271	326752	11566	N/A
3	4-8-23	70.9	7215	5571	4848	328390	10646	N/A
4	4-9-23	70.1	6843	6284	4675	331157	10470	N/A
5	4-10-23	70.1	6966	6023	4673	330689	9995	N/A
6	4-10-23	70.9	6891	6041	4904	328520	9954	N/A
7	4-11-23	71.3	6886	6236	5120	331563	10033	N/A
8	4-12-23	73.6	7256	6220	5512	330090	9589	N/A
9	4-12-23	69.7	6855	6403	5111	329731	9288	N/A
10	4-12-23	75.9	7296	6724	5511	331000	8887	N/A
11	4-13-23	69.2	7169	6811	4753	338671	8650	N/A
12	4-14-23	74	7154	6328	5234	330700	8991	N/A
13	4-14-23	75.1	7031	5967	4701	336000	8927	N/A
14	4-15-23	74.5	7078	6179	4544	330609	8859	N/A
15	4-15-23	71.9	6784	6154	4598	333060	8328	N/A
16	4-16-23	71.6	6632	6138	4871	325678	9627	N/A

Please insert additional pages as applicable.

12/01/2023  
JMK  
10/15/23

API 47- 095 - 02806 Farm name Edsel Hoover, et al Well number T1-03-1A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	4-16-23	11879	11702	72	MARCELLUS
18	4-16-23	11636	11484	72	MARCELLUS
19	4-17-23	11414	11254	72	MARCELLUS
20	4-17-23	11210	11028	72	MARCELLUS
21	4-18-23	10976	10809	72	MARCELLUS
22	4-18-23	10764	10595	72	MARCELLUS
23	4-19-23	10553	10381	72	MARCELLUS
24	4-20-23	10334	10188	72	MARCELLUS
25	4-20-23	10136	9982	72	MARCELLUS
26	4-21-23	9930	9764	72	MARCELLUS
27	4-21-23	9720	9559	72	MARCELLUS
28	4-22-23	9512	9352	72	MARCELLUS
29	4-22-23	9307	9124	72	MARCELLUS
30	4-22-23	9075	8922	72	MARCELLUS
31	4-23-23	8871	8694	72	MARCELLUS
32	4-23-23	8662	8504	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	4-16-23	72.1	6706	6355	4243	331069	9641	N/A
18	4-17-23	71	6703	6379	4377	328827	9319	N/A
19	4-17-23	76	6742	6164	4308	331360	9514	N/A
20	4-18-23	74	6504	5872	5259	321645	8332	N/A
21	4-18-23	71.9	6841	5903	4323	329840	7811	N/A
22	4-19-23	71.3	7192	5899	4943	281464	6951	N/A
23	4-20-23	71.4	6978	5972	4766	329840	8619	N/A
24	4-20-23	72.1	6829	5710	5384	328600	8639	N/A
25	4-21-23	71.5	6929	5640	4409	329660	7979	N/A
26	4-21-23	72.5	6731	6131	5312	325540	8514	N/A
27	4-21-23	71.9	6575	6161	4742	331640	8911	N/A
28	4-22-23	72.8	6625	6189	5134	329570	8028	N/A
29	4-22-23	72.1	6415	6535	5414	329640	8313	N/A
30	4-22-23	71.4	6663	6418	4892	330180	8651	N/A
31	4-23-23	71.1	6576	6235	4619	332380	8403	N/A
32	4-23-23	71.2	6446	5654	5415	324520	8479	N/A

Please insert additional pages as applicable.

12/01/2023  
10/25/23









**WR-35 FORMATION DATA**

<b>PAD-WELL</b>	<b>T1 - 03 1A</b>		
<b>ELEVATION</b>	<b>723</b>		
<b>PERMIT</b>	<b>47-095-02806</b>		
	<b>TOP TVD</b>	<b>BOTTOM TVD</b>	
<b>Carroll Sand</b>	384	417	
<b>Murphy Sand</b>	479	495	
<b>1st Cow Run Sand</b>	604	624	
<b>Little Dunkard Sand</b>	684	708	
<b>Dunkard Sand</b>	742	754	
<b>sandstone</b>	796	826	
<b>2nd Cow Run Sand</b>	935	962	
<b>Gas Sand</b>	1018	1057	
<b>1st Salt</b>	1084	1127	
<b>2nd Salt</b>	1251	1315	
<b>3rd Salt</b>	1458	1500	
<b>Maxon</b>	1607	1623	
<b>Big Lime</b>	1649	1734	
<b>Big Injun</b>	1754	1903	
<b>Berea</b>	2257	2260	
<b>Gordon</b>	2478	2496	
<b>Fifth</b>	2686	2695	
<b>Warren</b>	3167	3205	
<b>Riley</b>	4131	4141	
<b>Benson</b>	4776	4780	
<b>Alexander</b>	4985	5023	
<b>Hamilton</b>	5313	5629	
<b>Upper Marcellus (Geneseo)</b>	6270	6283	Gas show
<b>Purcell (Tully Lm)</b>	6308	6312	
<b>Marcellus</b>	6355		Gas show
<b>Cherry Valley</b>	6384		

12/01/2023 

## ADDENDUM

Please note this addendum is for all enclosed T1-03 Well Completion Reports:

It will be found during the review of casing and tubing from each permit to completion report that there are discrepancies. During the permitting process, the casing and tubing specifications were submitted as what Jay-Bee Oil & Gas, Inc. currently submits for permit to Utica. These wells were to be permitted for and drilled as Marcellus only. This mistake was not realized until after permits had been approved and drilling had commenced. After speaking with DEP Inspector McCoy at that time, he had advised to continue as we were, and make sure to notify during the completion report process of what had occurred. We were not required or requested to submit a permit modification at that time. If there are any further questions, Inspector McCoy advised he could be contacted at 681-344-3265.

**APPROVED**

12/01/2023





# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/7/2023
Job End Date:	4/25/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02806-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	T1-03-1A
Latitude:	39.44869900
Longitude:	-80.80203200
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,430
Total Base Water Volume (gal):	14,872,116
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	JayBee	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	50.19621	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	46.36744	None
Sand (40/70 Mesh Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	2.19281	None
Sand (30/50 Mesh Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	0.50538	None
Sand (20/40 Mesh Ceramic)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	0.38262	None
Hydrochloric Acid (15%)	CNR	Acidizing					
			Water	7732-18-5	85.00000	0.23839	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10377	None
ProSlick 373	ProFrac	Friction Reducer					



			Petroleum distillates, hydrotreated light	64742-47-8	30.00000	0.01373	None
			Ethoxylated Alcohol	68551-12-2	5.00000	0.00229	None
BioSuite GQ123x	BioSuite	Biocide					
			Glutaral	111-30-8	15.00000	0.00231	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00077	None
Acid Pack Pro LT	ProFrac	Hydrochloric Acid Additive / Corrosion Inhibitor					
			Proprietary Blend	Proprietary	60.00000	0.00070	None
			Ethylene Glycol	107-21-1	30.00000	0.00035	None
ProChek 170	ProFrac	Scale Inhibitor					
			Methyl alcohol	67-56-1	5.00000	0.00063	None
ProSlick 302	ProFrac	Friction Reducer					
			Petroleum distillates, hydrotreated light	64742-47-8	20.00000	0.00005	None
			Oleic Acid Diethanolamide	93-83-4	5.00000	0.00001	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	5.00000	0.00001	None
			Alcohols, C12-16, ethoxylated	68551-12-2	1.50000	0.00000	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.23839	
			Ethoxylated Alcohol	68551-12-2	5.00000	0.00229	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00077	
			Ethylene Glycol	107-21-1	30.00000	0.00035	
			Oleic Acid Diethanolamide	93-83-4	5.00000	0.00001	
			Ammonium chloride ((NH4)Cl)	12125-02-9	5.00000	0.00001	
			Alcohols, C12-16, ethoxylated	68551-12-2	1.50000	0.00000	

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

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

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

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





Company: Jay Bee Oil & Gas  
 Well: T1-03-1A ST02  
 Location: Tyler Co.WV  
 Rig: Falcon 39  
 API No: 47-095-02806-00-00  
 Start Date: 02/26/23 Start Depth: 350

Job Number: 71216 Calculation Method: Minimum Curvature  
 Magnetic Declination: -7.62 Proposed Azimuth: 134.38  
 Grid Correction: -0.83 Depth Ref: RKB 737.67 ft Plan # 6  
 Total Correction: -6.79 Field: Appalachian  
 North reference: Grid Location Lat/Long: 39.4486993, -80.8020315  
 End Date: 03/21/23 End Depth: 15466

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Local Coordinates (+N/-S) (ft)	Local Coordinates (+E/-W) (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
TIP	350.00	279.67	1.07	140.60	S 39.4 E	0	279.65	1.99	-1.11	1.69	0	0	0	0	0	0
1st Svy	479	395	0.64	160.48	S 19.5 E	115	394.97	3.63	-2.55	2.59	3.63	134.56	0.45	-0.37	17.24	1
Velocity	522	438	0.69	189.62	S 9.6 W	43	437.96	4.00	-3.03	2.63	4.01	139.10	0.79	0.12	67.77	1
Velocity	564	480	0.60	242.76	S 62.8 W	42	479.96	4.07	-3.38	2.39	4.14	144.77	1.39	-0.21	126.52	1
Velocity	606	522	1.13	293.44	N 66.6 W	42	521.96	3.62	-3.32	1.81	3.78	151.35	2.10	1.26	120.67	1
Velocity	648	564	1.74	299.60	N 60.4 W	42	563.94	2.61	-2.84	0.88	2.97	162.80	1.50	1.45	14.67	1
Velocity	691	607	2.32	299.36	N 60.6 W	43	606.92	1.14	-2.09	-0.45	2.14	192.11	1.35	1.35	-0.56	1
Velocity	733	649	2.72	296.09	N 63.9 W	42	648.88	-0.63	-1.23	-2.08	2.42	239.39	1.01	0.95	-7.79	1
Velocity	775	691	2.98	292.66	N 67.3 W	42	690.82	-2.59	-0.37	-3.99	4.00	264.64	0.74	0.62	-8.17	1
Velocity	818	734	3.25	288.36	N 71.6 W	43	733.76	-4.72	0.44	-6.17	6.19	274.08	0.83	0.63	-10.00	1
Velocity	860	776	3.30	285.81	N 74.2 W	42	775.69	-6.85	1.15	-8.47	8.54	277.70	0.37	0.12	-6.07	1
Velocity	902	818	2.94	283.68	N 76.3 W	42	817.63	-8.84	1.73	-10.68	10.82	279.20	0.90	-0.86	-5.07	1
Velocity	944	860	2.08	280.05	N 80.0 W	42	859.59	-10.40	2.12	-12.47	12.65	279.63	2.08	-2.05	-8.64	1
Velocity	987	903	1.12	269.44	S 89.4 W	43	902.57	-11.34	2.25	-13.66	13.85	279.35	2.33	-2.23	-24.67	1
Velocity	1029	945	0.65	256.78	S 76.8 W	42	944.57	-11.76	2.19	-14.31	14.47	278.71	1.21	-1.12	-30.14	1
Velocity	1071	987	0.55	249.96	S 70.0 W	42	986.56	-11.97	2.07	-14.73	14.87	277.99	0.29	-0.24	-16.24	1
Velocity	1113	1029	0.66	241.52	S 61.5 W	42	1028.56	-12.13	1.88	-15.13	15.25	277.09	0.34	0.26	-20.10	1
Velocity	1156	1072	0.54	245.18	S 65.2 W	43	1071.56	-12.27	1.68	-15.53	15.62	276.17	0.29	-0.28	8.51	1
Velocity	1198	1114	0.59	244.34	S 64.3 W	42	1113.56	-12.42	1.50	-15.91	15.98	275.40	0.12	0.12	-2.00	1
Velocity	1240	1156	0.55	242.25	S 62.3 W	42	1155.56	-12.55	1.32	-16.28	16.33	274.62	0.11	-0.10	-4.98	1
Velocity	1282	1198	0.56	240.06	S 60.1 W	42	1197.55	-12.67	1.12	-16.63	16.67	273.85	0.06	0.02	-5.21	1
Velocity	1325	1241	0.48	239.99	S 60.0 W	43	1240.55	-12.78	0.92	-16.97	17.00	273.12	0.19	-0.19	-0.16	1
Velocity	1367	1283	0.52	241.08	S 61.1 W	42	1282.55	-12.88	0.74	-17.29	17.31	272.46	0.10	0.10	2.60	1
Velocity	1409	1325	0.44	237.37	S 57.4 W	42	1324.55	-12.97	0.56	-17.59	17.60	271.84	0.20	-0.19	-8.83	1
Velocity	1451	1367	0.34	229.95	S 50.0 W	42	1366.55	-13.02	0.40	-17.83	17.83	271.28	0.27	-0.24	-17.67	1
Velocity	1493	1409	0.13	211.46	S 31.5 W	42	1408.55	-13.02	0.28	-17.95	17.95	270.88	0.53	-0.50	-44.02	1
Velocity	1536	1452	0.18	148.94	S 31.1 E	43	1451.55	-12.94	0.18	-17.94	17.94	270.57	0.39	0.12	-145.40	1
Velocity	1578	1494	0.31	128.82	S 51.2 E	42	1493.55	-12.77	0.05	-17.81	17.81	270.16	0.37	0.31	-47.90	1
Velocity	1622	1538	0.38	134.11	S 45.9 E	44	1537.55	-12.50	-0.13	-17.62	17.62	269.59	0.17	0.16	12.02	1
Velocity	1664	1580	0.45	139.14	S 40.9 E	42	1579.55	-12.20	-0.35	-17.41	17.41	268.85	0.19	0.17	11.98	1
Velocity	1706	1622	0.61	136.42	S 43.6 E	42	1621.54	-11.81	-0.64	-17.15	17.16	267.88	0.39	0.38	-6.48	1
Velocity	1749	1665	0.63	137.06	S 42.9 E	43	1664.54	-11.35	-0.97	-16.83	16.86	266.69	0.05	0.05	1.49	1
Velocity	1791	1707	0.63	144.88	S 35.1 E	42	1706.54	-10.89	-1.33	-16.54	16.59	265.40	0.20	0.00	18.62	1



Velocity	1833	1749	0.60	137.86	S 42.1 E	42	1748.54	-10.44	-1.68	-16.26	16.34	264.09	0.19	-0.07	-16.71	1
Velocity	1875	1791	0.63	136.09	S 43.9 E	42	1790.53	-9.99	-2.01	-15.95	16.08	262.81	0.08	0.07	-4.21	1
Velocity	1917	1833	0.81	143.65	S 36.4 E	42	1832.53	-9.47	-2.42	-15.61	15.80	261.19	0.48	0.43	18.00	1
Velocity	1960	1876	0.73	146.10	S 33.9 E	43	1875.53	-8.90	-2.89	-15.28	15.55	259.29	0.20	-0.19	5.70	1
Velocity	2002	1918	0.36	194.95	S 15.0 W	42	1917.52	-8.57	-3.24	-15.17	15.51	257.94	1.34	-0.88	116.31	1
Velocity	2044	1960	0.50	266.07	S 86.1 W	42	1959.52	-8.63	-3.38	-15.38	15.75	257.61	1.22	0.33	169.33	1
Velocity	2148	2071	0.91	268.07	S 88.1 W	111	2070.51	-9.56	-3.44	-16.75	17.10	258.38	0.37	0.37	1.80	2
Velocity	2191	2114	0.70	249.12	S 69.1 W	43	2113.51	-9.91	-3.55	-17.33	17.69	258.43	0.78	-0.49	-44.07	2
Velocity	2233	2156	1.59	269.21	S 89.2 W	42	2155.50	-10.42	-3.65	-18.16	18.52	258.64	2.29	2.12	47.83	2
Velocity	2275	2198	4.10	273.66	N 86.3 W	42	2197.45	-11.97	-3.56	-20.24	20.55	260.02	5.99	5.98	10.60	2
Velocity	2317	2240	6.57	277.28	N 82.7 W	42	2239.26	-15.03	-3.16	-24.12	24.33	262.54	5.93	5.88	8.62	2
Velocity	2359	2282	8.30	278.17	N 81.8 W	42	2280.91	-19.39	-2.42	-29.50	29.60	265.30	4.13	4.12	2.12	2
Velocity	2402	2325	10.70	280.54	N 79.5 W	43	2323.31	-25.21	-1.25	-36.50	36.52	268.03	5.65	5.58	5.51	2
Velocity	2444	2367	12.42	277.55	N 82.5 W	42	2364.46	-32.07	0.05	-44.81	44.81	270.07	4.34	4.10	-7.12	2
Velocity	2486	2409	13.96	275.02	N 85.0 W	42	2405.35	-39.60	1.09	-54.34	54.35	271.15	3.91	3.67	-6.02	2
Velocity	2528	2451	15.40	273.65	N 86.4 W	42	2445.98	-47.74	1.89	-64.95	64.98	271.67	3.53	3.43	-3.26	2
Velocity	2571	2494	16.89	271.74	N 88.3 W	43	2487.28	-56.66	2.44	-76.89	76.93	271.82	3.68	3.47	-4.44	2
Velocity	2655	2578	17.08	265.64	S 85.6 W	84	2567.63	-73.78	1.87	-101.39	101.41	271.06	2.13	0.23	-7.26	2
Velocity	2742	2665	16.29	261.81	S 81.8 W	87	2650.97	-89.62	-0.83	-126.21	126.21	269.62	1.56	-0.91	-4.40	2
Velocity	2827	2750	15.03	260.23	S 80.2 W	85	2732.81	-103.32	-4.40	-148.87	148.94	268.31	1.56	-1.48	-1.86	2
Velocity	2911	2834	16.11	268.18	S 88.2 W	84	2813.73	-117.77	-6.62	-171.26	171.38	267.79	2.84	1.29	9.46	2
Velocity	2996	2919	15.99	269.16	S 89.2 W	85	2895.42	-134.18	-7.17	-194.75	194.88	267.89	0.35	-0.14	1.15	2
Velocity	3080	3003	16.26	269.07	S 89.1 W	84	2976.12	-150.60	-7.53	-218.08	218.21	268.02	0.32	0.32	-0.11	2
Velocity	3165	3088	17.49	261.65	S 81.7 W	85	3057.46	-166.70	-9.58	-242.62	242.81	267.74	2.92	1.45	-8.73	2
Velocity	3249	3172	18.78	260.12	S 80.1 W	84	3137.29	-182.25	-13.73	-268.43	268.78	267.07	1.64	1.54	-1.82	2
Velocity	3333	3256	20.39	263.28	S 83.3 W	84	3216.43	-199.33	-17.76	-296.28	296.81	266.57	2.29	1.92	3.76	2
Velocity	3418	3341	22.30	265.27	S 85.3 W	85	3295.60	-219.19	-20.83	-327.06	327.73	266.36	2.40	2.25	2.34	2
Velocity	3502	3425	22.31	267.56	S 87.6 W	84	3373.31	-240.54	-22.82	-358.88	359.60	266.36	1.03	0.01	2.73	2
Velocity	3586	3509	21.87	267.71	S 87.7 W	84	3451.15	-262.18	-24.12	-390.44	391.18	266.46	0.53	-0.52	0.18	2
Velocity	3671	3594	22.69	267.98	S 88.0 W	85	3529.80	-284.35	-25.33	-422.64	423.40	266.57	0.97	0.96	0.32	2
Velocity	3755	3678	22.53	268.43	S 88.4 W	84	3607.34	-306.71	-26.35	-454.92	455.68	266.69	0.28	-0.19	0.54	2
Velocity	3840	3763	23.49	266.72	S 86.7 W	85	3685.58	-329.45	-27.76	-488.11	488.90	266.74	1.38	1.13	-2.01	2
Velocity	3925	3848	22.48	263.01	S 83.0 W	85	3763.84	-351.00	-30.71	-521.16	522.06	266.63	2.08	-1.19	-4.36	2
Velocity	4009	3932	20.71	263.01	S 83.0 W	84	3841.94	-370.30	-34.47	-551.84	552.92	266.43	2.11	-2.11	0.00	2
Velocity	4094	4017	18.86	265.44	S 85.4 W	85	3921.92	-388.71	-37.39	-580.46	581.66	266.31	2.38	-2.18	2.86	2
Velocity	4178	4101	18.09	267.19	S 87.2 W	84	4001.59	-406.49	-39.11	-607.02	608.28	266.31	1.13	-0.92	2.08	2
Velocity	4263	4186	19.19	269.19	S 89.2 W	85	4082.13	-425.31	-39.96	-634.17	635.43	266.39	1.50	1.29	2.35	2
Velocity	4347	4270	18.84	270.43	N 89.6 W	84	4161.55	-444.80	-40.05	-661.53	662.75	266.54	0.64	-0.42	1.48	2
Velocity	4435	4358	19.48	270.53	N 89.5 W	88	4244.67	-465.61	-39.81	-690.42	691.56	266.70	0.73	0.73	0.11	2
Velocity	4519	4442	19.38	268.20	S 88.2 W	84	4323.89	-485.36	-40.11	-718.35	719.47	266.80	0.93	-0.12	-2.77	2
Velocity	4606	4529	21.29	271.96	N 88.0 W	87	4405.47	-507.02	-40.03	-748.57	749.64	266.94	2.66	2.20	4.32	2
Velocity	4691	4614	22.82	281.82	N 78.2 W	85	4484.27	-532.31	-36.12	-780.14	780.97	267.35	4.71	1.80	11.60	2
Velocity	4776	4699	24.80	275.29	N 84.7 W	85	4562.05	-560.05	-31.10	-814.03	814.62	267.81	3.88	2.33	-7.68	2



Velocity	4863	4786	23.31	266.01	S 86.0 W	87	4641.52	-585.66	-30.62	-849.39	849.94	267.94	4.67	-1.71	-10.67	2
Velocity	4950	4873	20.23	263.13	S 83.1 W	87	4722.31	-606.51	-33.61	-881.50	882.14	267.82	3.75	-3.54	-3.31	2
Velocity	4964	4897	17.77	262.25	S 82.3 W	24	4745.00	-611.36	-34.60	-889.25	889.92	267.77	10.32	-10.25	-3.67	5
Velocity	5008	4941	17.09	259.49	S 79.5 W	44	4786.98	-619.20	-36.69	-902.26	903.01	267.67	2.43	-1.55	-6.27	5
Velocity	5051	4984	16.31	259.04	S 79.0 W	43	4828.16	-626.27	-38.99	-914.40	915.23	267.56	1.84	-1.81	-1.05	5
Velocity	5093	5026	16.20	256.35	S 76.4 W	42	4868.48	-632.72	-41.49	-925.88	926.81	267.43	1.81	-0.26	-6.40	5
Velocity	5135	5068	17.32	252.89	S 72.9 W	42	4908.70	-638.81	-44.72	-937.55	938.62	267.27	3.57	2.67	-8.24	5
Velocity	5219	5152	17.92	257.62	S 77.6 W	84	4988.76	-651.86	-51.17	-962.13	963.49	266.96	1.85	0.71	5.63	5
Velocity	5307	5240	19.50	259.04	S 79.0 W	88	5072.11	-667.64	-56.86	-989.77	991.40	266.71	1.87	1.80	1.61	5
Velocity	5391	5324	19.24	255.51	S 75.5 W	84	5151.36	-682.77	-62.99	-1016.94	1018.89	266.46	1.43	-0.31	-4.20	5
Velocity	5478	5411	17.88	259.31	S 79.3 W	87	5233.83	-697.83	-69.05	-1043.94	1046.22	266.22	2.09	-1.56	4.37	5
Velocity	5564	5497	17.56	255.91	S 75.9 W	86	5315.76	-712.17	-74.66	-1069.50	1072.10	266.01	1.26	-0.37	-3.95	5
Velocity	5574	5521	17.52	255.10	S 75.1 W	24	5338.64	-715.91	-76.47	-1076.50	1079.21	265.94	1.03	-0.17	-3.38	6
Velocity	5662	5609	16.88	257.76	S 77.8 W	88	5422.71	-729.70	-82.59	-1101.79	1104.88	265.71	1.15	-0.73	3.02	6
Velocity	5747	5694	15.97	257.32	S 77.3 W	85	5504.24	-742.85	-87.77	-1125.26	1128.67	265.54	1.08	-1.07	-0.52	6
Velocity	5833	5780	16.14	255.31	S 75.3 W	86	5586.88	-755.43	-93.40	-1148.36	1152.15	265.35	0.68	0.20	-2.34	6
Velocity	5876	5823	15.29	252.30	S 72.3 W	43	5628.28	-761.16	-96.64	-1159.54	1163.56	265.24	2.74	-1.98	-7.00	6
Velocity	5918	5865	17.31	235.54	S 55.5 W	42	5668.61	-764.96	-101.86	-1169.98	1174.40	265.02	12.14	4.81	-39.90	6
Velocity	5961	5908	18.74	217.36	S 37.4 W	43	5709.53	-765.36	-110.98	-1179.45	1184.66	264.62	13.44	3.33	-42.28	6
Velocity	6004	5951	19.98	207.76	S 27.8 W	43	5750.11	-762.41	-122.97	-1187.07	1193.42	264.09	7.93	2.88	-22.33	6
Velocity	6049	5996	20.45	194.81	S 14.8 W	45	5792.36	-756.33	-137.38	-1192.66	1200.55	263.43	9.98	1.04	-28.78	6
Velocity	6093	6040	21.25	181.72	S 1.7 W	44	5833.50	-747.13	-152.79	-1194.87	1204.60	262.71	10.72	1.82	-29.75	6
Velocity	6137	6084	21.85	173.72	S 6.3 E	44	5874.43	-735.39	-168.90	-1194.21	1206.10	261.95	6.81	1.36	-18.18	6
Velocity	6180	6127	22.88	165.83	S 14.2 E	43	5914.20	-722.06	-184.97	-1191.29	1205.56	261.17	7.38	2.40	-18.35	6
Velocity	6224	6171	23.95	156.33	S 23.7 E	44	5954.60	-706.48	-201.45	-1185.61	1202.60	260.36	8.91	2.43	-21.59	6
Velocity	6265	6212	25.79	151.08	S 28.9 E	41	5991.80	-690.21	-216.88	-1177.95	1197.75	259.57	7.01	4.49	-12.80	6
Velocity	6309	6256	28.11	146.84	S 33.2 E	44	6031.02	-670.92	-233.94	-1167.65	1190.85	258.67	6.84	5.27	-9.64	6
Velocity	6353	6300	31.24	140.98	S 39.0 E	44	6069.25	-649.45	-251.49	-1154.79	1181.86	257.71	9.69	7.11	-13.32	6
Velocity	6397	6344	34.01	137.57	S 42.4 E	44	6106.31	-625.83	-269.44	-1139.30	1170.73	256.69	7.55	6.30	-7.75	6
Velocity	6441	6388	37.48	135.83	S 44.2 E	44	6142.02	-600.15	-288.13	-1121.66	1158.08	255.59	8.22	7.89	-3.95	6
Velocity	6485	6432	41.42	135.68	S 44.3 E	44	6175.98	-572.21	-308.15	-1102.16	1144.43	254.38	8.96	8.95	-0.34	6
Velocity	6529	6476	45.75	135.27	S 44.7 E	44	6207.85	-541.88	-329.77	-1080.89	1130.08	253.03	9.86	9.84	-0.93	6
Velocity	6573	6520	49.92	135.40	S 44.6 E	44	6237.38	-509.28	-352.96	-1057.97	1115.30	251.55	9.48	9.48	0.30	6
Velocity	6617	6564	54.96	136.56	S 43.4 E	44	6264.19	-474.43	-378.05	-1033.75	1100.71	249.91	11.64	11.45	2.64	6
Velocity	6661	6608	59.52	137.40	S 42.6 E	44	6288.00	-437.48	-405.10	-1008.52	1086.83	248.12	10.49	10.36	1.91	6
Velocity	6705	6652	64.18	137.85	S 42.2 E	44	6308.75	-398.75	-433.75	-982.38	1073.88	246.18	10.63	10.59	1.02	6
Velocity	6749	6696	69.40	136.54	S 43.5 E	44	6326.08	-358.38	-463.40	-954.90	1061.41	244.11	12.17	11.86	-2.98	6
Velocity	6793	6740	73.87	137.74	S 42.3 E	44	6339.94	-316.68	-494.01	-926.51	1049.98	241.93	10.48	10.16	2.73	6
Velocity	6837	6784	78.91	137.95	S 42.1 E	44	6350.29	-274.01	-525.70	-897.82	1040.41	239.65	11.46	11.45	0.48	6
Velocity	6881	6828	81.44	137.96	S 42.0 E	44	6357.80	-230.74	-557.89	-868.79	1032.49	237.29	5.75	5.75	0.02	6
Velocity	6925	6872	82.07	137.14	S 42.9 E	44	6364.11	-187.26	-590.02	-839.40	1026.02	234.90	2.33	1.43	-1.86	6
Velocity	6970	6917	86.29	136.66	S 43.3 E	45	6368.67	-142.55	-622.70	-808.82	1020.76	232.41	9.44	9.38	-1.07	6
Velocity	7012	6959	86.43	136.44	S 43.6 E	42	6371.34	-100.66	-653.13	-779.99	1017.33	230.06	0.62	0.33	-0.52	6



Velocity	7056	7003	86.51	136.23	S 43.8 E	44	6374.05	-56.77	-684.90	-749.67	1015.43	227.58	0.51	0.18	-0.48	6
Velocity	7100	7047	86.39	136.45	S 43.6 E	44	6376.77	-12.88	-716.67	-719.35	1015.42	225.11	0.57	-0.27	0.50	6
Velocity	7188	7135	88.19	136.34	S 43.7 E	88	6380.93	74.96	-780.32	-658.73	1021.19	220.17	2.05	2.05	-0.12	6
Velocity	7276	7223	89.33	135.99	S 44.0 E	88	6382.84	162.90	-843.78	-597.80	1034.08	215.32	1.36	1.30	-0.40	6
Velocity	7364	7311	89.98	131.39	S 48.6 E	88	6383.37	250.87	-904.55	-534.18	1050.51	210.56	5.28	0.74	-5.23	6
Velocity	7450	7397	90.35	130.90	S 49.1 E	86	6383.12	336.73	-961.13	-469.42	1069.64	206.03	0.71	0.43	-0.57	6
Velocity	7538	7485	90.92	128.56	S 51.4 E	88	6382.15	424.43	-1017.37	-401.75	1093.83	201.55	2.74	0.65	-2.66	6
Velocity	7626	7573	89.95	128.87	S 51.1 E	88	6381.48	511.99	-1072.41	-333.09	1122.95	197.25	1.16	-1.10	0.35	6
Velocity	7715	7662	89.84	128.40	S 51.6 E	89	6381.64	600.55	-1127.98	-263.57	1158.36	193.15	0.54	-0.12	-0.53	6
Velocity	7803	7750	89.14	127.19	S 52.8 E	88	6382.42	687.96	-1181.91	-194.04	1197.73	189.32	1.59	-0.80	-1.38	6
Velocity	7891	7838	88.84	128.24	S 51.8 E	88	6383.97	775.35	-1235.73	-124.44	1241.98	185.75	1.24	-0.34	1.19	6
Velocity	7978	7925	89.47	127.99	S 52.0 E	87	6385.26	861.82	-1289.42	-55.99	1290.64	182.49	0.78	0.72	-0.29	6
Velocity	8066	8013	89.10	126.81	S 53.2 E	88	6386.36	949.16	-1342.87	13.91	1342.94	179.41	1.41	-0.42	-1.34	6
Velocity	8154	8101	89.10	125.62	S 54.4 E	88	6387.74	1036.26	-1394.85	84.90	1397.43	176.52	1.35	0.00	-1.35	6
Velocity	8242	8189	89.13	127.49	S 52.5 E	88	6389.10	1123.42	-1447.25	155.57	1455.59	173.86	2.13	0.03	2.12	6
Velocity	8330	8277	90.52	129.33	S 50.7 E	88	6389.37	1210.94	-1501.92	224.52	1518.61	171.50	2.62	1.58	2.09	6
Velocity	8419	8366	90.76	129.67	S 50.3 E	89	6388.37	1299.61	-1558.53	293.19	1585.87	169.35	0.47	0.27	0.38	6
Velocity	8506	8453	88.88	130.07	S 49.9 E	87	6388.65	1386.34	-1614.30	359.96	1653.95	167.43	2.21	-2.16	0.46	6
Velocity	8593	8540	89.42	131.21	S 48.8 E	87	6389.94	1473.14	-1670.96	425.97	1724.40	165.70	1.45	0.62	1.31	6
Velocity	8681	8628	90.22	131.18	S 48.8 E	88	6390.21	1561.00	-1728.91	492.19	1797.61	164.11	0.91	0.91	-0.03	6
Velocity	8769	8716	90.79	129.33	S 50.7 E	88	6389.44	1648.77	-1785.77	559.34	1871.32	162.61	2.20	0.65	-2.10	6
Velocity	8857	8804	89.99	128.09	S 51.9 E	88	6388.84	1736.33	-1840.80	628.01	1944.98	161.16	1.68	-0.91	-1.41	6
Velocity	8945	8892	90.25	129.25	S 50.8 E	88	6388.65	1823.89	-1895.79	696.71	2019.76	159.82	1.35	0.30	1.32	6
Velocity	9032	8979	89.87	130.03	S 50.0 E	87	6388.56	1910.59	-1951.29	763.71	2095.42	158.63	1.00	-0.44	0.90	6
Velocity	9121	9068	90.73	129.99	S 50.0 E	89	6388.10	1999.33	-2008.51	831.87	2173.96	157.50	0.97	0.97	-0.04	6
Velocity	9209	9156	90.25	126.61	S 53.4 E	88	6387.34	2086.82	-2063.04	900.92	2251.18	156.41	3.88	-0.55	-3.84	6
Velocity	9297	9244	88.47	123.64	S 56.4 E	88	6388.33	2173.66	-2113.66	972.88	2326.81	155.28	3.93	-2.02	-3.38	6
Velocity	9384	9331	87.99	125.80	S 54.2 E	87	6391.01	2259.38	-2163.19	1044.35	2402.09	154.23	2.54	-0.55	2.48	6
Velocity	9472	9419	89.28	127.00	S 53.0 E	88	6393.11	2346.50	-2215.39	1115.16	2480.23	153.28	2.00	1.47	1.36	6
Velocity	9557	9504	89.44	129.13	S 50.9 E	85	6394.06	2430.97	-2267.79	1182.07	2557.38	152.47	2.51	0.19	2.51	6
Velocity	9642	9589	88.76	129.31	S 50.7 E	85	6395.40	2515.62	-2321.53	1247.92	2635.68	151.74	0.83	-0.80	0.21	6
Velocity	9728	9675	88.96	129.26	S 50.7 E	86	6397.11	2601.26	-2375.97	1314.47	2715.34	151.05	0.24	0.23	-0.06	6
Velocity	9815	9762	88.48	127.80	S 52.2 E	87	6399.05	2687.78	-2430.15	1382.51	2795.88	150.36	1.77	-0.55	-1.68	6
Velocity	9902	9849	88.88	128.84	S 51.2 E	87	6401.05	2774.27	-2484.08	1450.74	2876.69	149.71	1.28	0.46	1.20	6
Velocity	9990	9937	89.30	128.69	S 51.3 E	88	6402.45	2861.84	-2539.17	1519.35	2959.02	149.11	0.51	0.48	-0.17	6
Velocity	10077	10024	88.53	128.33	S 51.7 E	87	6404.10	2948.37	-2593.33	1587.42	3040.60	148.53	0.98	-0.89	-0.41	6
Velocity	10165	10112	88.22	129.25	S 50.8 E	88	6406.59	3035.91	-2648.44	1655.98	3123.54	147.98	1.10	-0.35	1.05	6
Velocity	10253	10200	89.62	130.63	S 49.4 E	88	6408.25	3123.63	-2704.92	1723.43	3207.31	147.50	2.23	1.59	1.57	6
Velocity	10338	10285	89.96	128.20	S 51.8 E	85	6408.56	3208.30	-2758.89	1789.10	3288.21	147.04	2.89	0.40	-2.86	6
Velocity	10424	10371	89.76	127.82	S 52.2 E	86	6408.78	3293.77	-2811.85	1856.86	3369.63	146.56	0.50	-0.23	-0.44	6
Velocity	10511	10458	90.15	131.90	S 48.1 E	87	6408.84	3380.48	-2867.59	1923.62	3453.03	146.15	4.71	0.45	4.69	6
Velocity	10596	10543	89.96	131.47	S 48.5 E	85	6408.76	3465.39	-2924.12	1987.10	3535.40	145.80	0.55	-0.22	-0.51	6
Velocity	10682	10629	90.36	130.34	S 49.7 E	86	6408.52	3551.23	-2980.43	2052.10	3618.58	145.45	1.39	0.47	-1.31	6

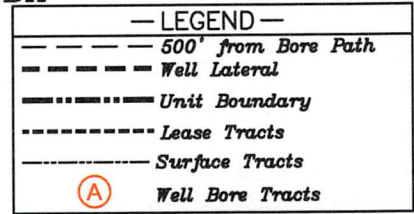
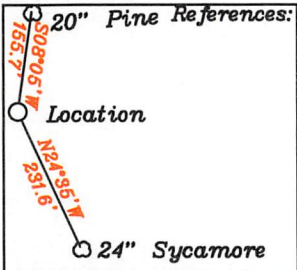


Velocity	10767	10714	88.98	128.80	S 51.2 E	85	6409.01	3635.92	-3034.58	2117.62	3700.40	145.09	2.43	-1.62	-1.81	6
Velocity	10853	10800	89.18	129.05	S 51.0 E	86	6410.39	3721.52	-3088.60	2184.51	3783.06	144.73	0.37	0.23	0.29	6
Velocity	10940	10887	90.04	129.32	S 50.7 E	87	6410.98	3808.16	-3143.57	2251.95	3866.95	144.38	1.04	0.99	0.31	6
Velocity	11027	10974	90.75	128.88	S 51.1 E	87	6410.38	3894.79	-3198.44	2319.46	3950.94	144.05	0.96	0.82	-0.51	6
Velocity	11114	11061	90.87	128.80	S 51.2 E	87	6409.15	3981.37	-3252.99	2387.22	4034.94	143.73	0.17	0.14	-0.09	6
Velocity	11199	11146	89.96	130.81	S 49.2 E	85	6408.54	4066.10	-3307.40	2452.51	4117.49	143.44	2.60	-1.07	2.36	6
Velocity	11285	11232	89.79	129.78	S 50.2 E	86	6408.73	4151.88	-3363.02	2518.10	4201.28	143.18	1.21	-0.20	-1.20	6
Velocity	11370	11317	89.45	128.79	S 51.2 E	85	6409.29	4236.54	-3416.84	2583.89	4283.84	142.90	1.23	-0.40	-1.16	6
Velocity	11456	11403	89.73	128.65	S 51.4 E	86	6409.91	4322.11	-3470.63	2650.99	4367.27	142.63	0.36	0.33	-0.16	6
Velocity	11543	11490	90.78	129.02	S 51.0 E	87	6409.52	4408.71	-3525.19	2718.76	4451.81	142.36	1.28	1.21	0.43	6
Velocity	11630	11577	90.01	129.38	S 50.6 E	87	6408.92	4495.35	-3580.17	2786.17	4536.56	142.11	0.98	-0.89	0.41	6
Velocity	11718	11665	90.07	129.79	S 50.2 E	88	6408.86	4583.04	-3636.25	2853.99	4622.51	141.87	0.47	0.07	0.47	6
Velocity	11804	11751	89.89	129.54	S 50.5 E	86	6408.89	4668.75	-3691.14	2920.20	4706.60	141.65	0.36	-0.21	-0.29	6
Velocity	11890	11837	89.90	128.66	S 51.3 E	86	6409.04	4754.38	-3745.38	2986.94	4790.58	141.43	1.02	0.01	-1.02	6
Velocity	11976	11923	89.68	129.13	S 50.9 E	86	6409.36	4839.99	-3799.38	3053.87	4874.56	141.21	0.60	-0.26	0.55	6
Velocity	12063	12010	89.12	128.62	S 51.4 E	87	6410.27	4926.58	-3853.98	3121.60	4959.59	140.99	0.87	-0.64	-0.59	6
Velocity	12147	12094	88.81	128.76	S 51.2 E	84	6411.79	5010.15	-3906.48	3187.15	5041.67	140.79	0.40	-0.37	0.17	6
Velocity	12233	12180	88.70	129.64	S 50.4 E	86	6413.66	5095.78	-3960.82	3253.78	5125.93	140.60	1.03	-0.13	1.02	6
Velocity	12318	12265	88.43	129.56	S 50.4 E	85	6415.79	5180.46	-4014.98	3319.25	5209.37	140.42	0.33	-0.32	-0.09	6
Velocity	12405	12352	88.35	129.60	S 50.4 E	87	6418.23	5267.12	-4070.39	3386.28	5294.81	140.24	0.10	-0.09	0.05	6
Velocity	12492	12439	89.71	129.88	S 50.1 E	87	6419.70	5353.82	-4126.00	3453.17	5380.36	140.07	1.60	1.56	0.32	6
Velocity	12579	12526	89.41	131.24	S 48.8 E	87	6420.37	5440.62	-4182.57	3519.26	5466.18	139.92	1.60	-0.34	1.56	6
Velocity	12666	12613	89.13	130.87	S 49.1 E	87	6421.48	5527.47	-4239.71	3584.86	5552.15	139.78	0.53	-0.32	-0.43	6
Velocity	12750	12697	89.50	129.22	S 50.8 E	84	6422.48	5611.22	-4293.74	3649.16	5634.94	139.64	2.01	0.44	-1.96	6
Velocity	12837	12784	90.39	128.49	S 51.5 E	87	6422.57	5697.81	-4348.32	3716.91	5720.43	139.48	1.32	1.02	-0.84	6
Velocity	12922	12869	91.10	126.54	S 53.5 E	85	6421.46	5782.19	-4400.08	3784.32	5803.60	139.30	2.44	0.84	-2.29	6
Velocity	13008	12955	91.13	126.29	S 53.7 E	86	6419.79	5867.35	-4451.12	3853.51	5887.45	139.12	0.29	0.03	-0.29	6
Velocity	13095	13042	90.87	125.20	S 54.8 E	87	6418.27	5953.35	-4501.94	3924.11	5972.11	138.92	1.29	-0.30	-1.25	6
Velocity	13182	13129	89.71	125.43	S 54.6 E	87	6417.83	6039.26	-4552.23	3995.10	6056.70	138.73	1.36	-1.33	0.26	6
Velocity	13267	13214	89.64	125.41	S 54.6 E	85	6418.31	6123.22	-4601.49	4064.37	6139.45	138.55	0.09	-0.08	-0.02	6
Velocity	13354	13301	89.68	124.51	S 55.5 E	87	6418.83	6209.04	-4651.34	4135.67	6224.04	138.36	1.04	0.05	-1.03	6
Velocity	13442	13389	89.92	125.72	S 54.3 E	88	6419.14	6295.89	-4701.96	4207.65	6309.73	138.18	1.40	0.27	1.37	6
Velocity	13529	13476	89.55	124.94	S 55.1 E	87	6419.54	6381.81	-4752.27	4278.63	6394.58	138.00	0.99	-0.43	-0.90	6
Velocity	13614	13561	89.53	124.34	S 55.7 E	85	6420.22	6465.58	-4800.58	4348.56	6477.31	137.83	0.71	-0.02	-0.71	6
Velocity	13699	13646	89.75	124.55	S 55.5 E	85	6420.75	6549.30	-4848.66	4418.65	6560.03	137.66	0.36	0.26	0.25	6
Velocity	13786	13733	90.27	124.02	S 56.0 E	87	6420.74	6634.95	-4897.66	4490.53	6644.70	137.48	0.85	0.60	-0.61	6
Velocity	13872	13819	89.82	123.59	S 56.4 E	86	6420.67	6719.49	-4945.51	4561.99	6728.29	137.31	0.72	-0.52	-0.50	6
Velocity	13958	13905	89.18	122.80	S 57.2 E	86	6421.42	6803.86	-4992.59	4633.96	6811.72	137.13	1.18	-0.74	-0.92	6
Velocity	14043	13990	89.39	123.50	S 56.5 E	85	6422.48	6887.22	-5039.07	4705.12	6894.23	136.96	0.86	0.25	0.82	6
Velocity	14130	14077	89.18	123.58	S 56.4 E	87	6423.57	6972.66	-5087.14	4777.62	6978.87	136.80	0.26	-0.24	0.09	6
Velocity	14216	14163	88.85	123.18	S 56.8 E	86	6425.05	7057.07	-5134.44	4849.43	7062.54	136.64	0.60	-0.38	-0.47	6
Velocity	14301	14248	87.73	122.55	S 57.5 E	85	6427.58	7140.32	-5180.55	4920.79	7145.09	136.47	1.51	-1.32	-0.74	6
Velocity	14386	14333	89.15	122.89	S 57.1 E	85	6429.90	7223.53	-5226.48	4992.27	7227.65	136.31	1.72	1.67	0.40	6



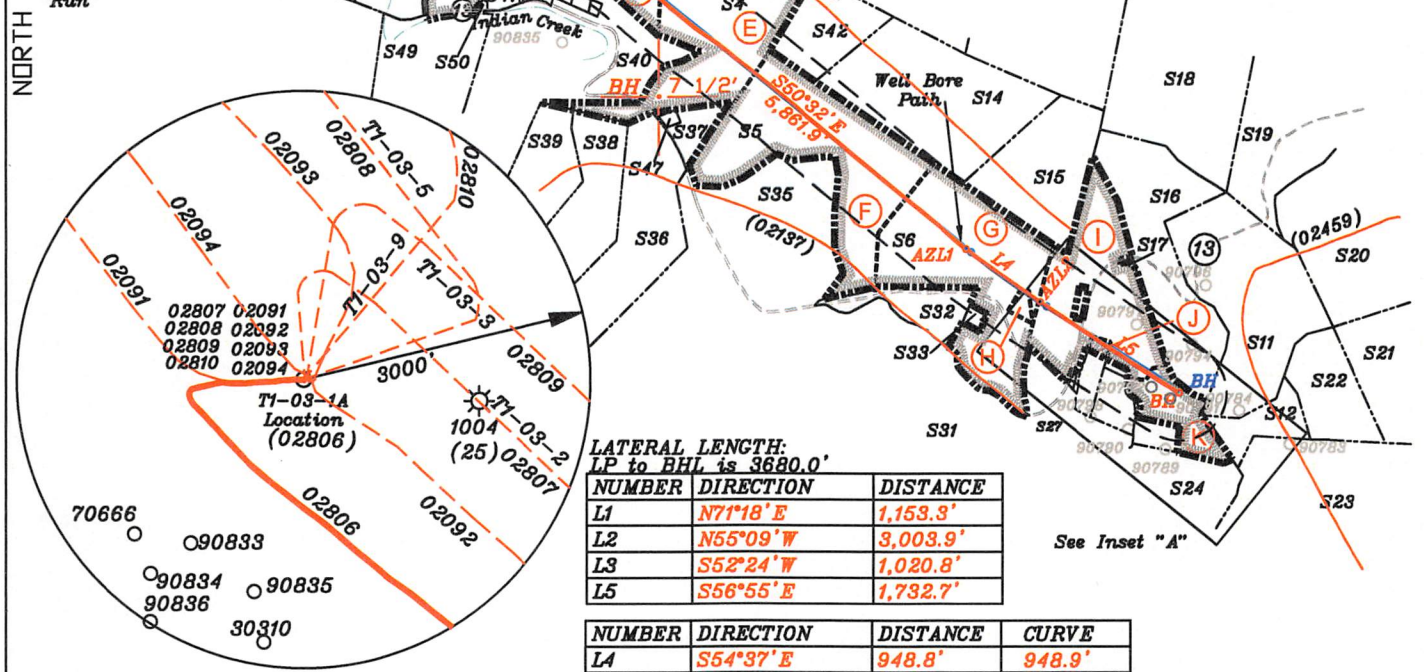
Velocity	14472	14419	90.30	125.01	S 55.0 E	86	6430.31	7308.10	-5274.50	5063.61	7311.67	136.17	2.80	1.34	2.47	6
Velocity	14558	14505	90.78	124.91	S 55.1 E	86	6429.50	7392.94	-5323.78	5134.08	7396.04	136.04	0.57	0.56	-0.12	6
Velocity	14644	14591	89.79	122.79	S 57.2 E	86	6429.07	7477.49	-5371.68	5205.50	7480.12	135.90	2.72	-1.15	-2.47	6
Velocity	14732	14679	89.68	122.92	S 57.1 E	88	6429.48	7563.71	-5419.42	5279.43	7565.87	135.75	0.19	-0.12	0.15	6
Velocity	14819	14766	89.62	123.31	S 56.7 E	87	6430.01	7649.03	-5466.95	5352.29	7650.79	135.61	0.45	-0.07	0.45	6
Velocity	14905	14852	89.64	123.25	S 56.8 E	86	6430.57	7733.42	-5514.14	5424.19	7734.82	135.47	0.07	0.02	-0.07	6
Velocity	14993	14940	89.19	123.86	S 56.1 E	88	6431.46	7819.85	-5562.77	5497.52	7820.94	135.34	0.86	-0.51	0.69	6
Velocity	15079	15026	89.48	122.35	S 57.7 E	86	6432.46	7904.18	-5609.74	5569.55	7905.00	135.21	1.79	0.34	-1.76	6
Velocity	15165	15112	90.04	122.63	S 57.4 E	86	6432.82	7988.34	-5655.94	5642.09	7988.92	135.07	0.73	0.65	0.33	6
Velocity	15251	15198	89.82	122.83	S 57.2 E	86	6432.93	8072.56	-5702.43	5714.43	8072.95	134.94	0.35	-0.26	0.23	6
Velocity	15338	15285	89.58	121.88	S 58.1 E	87	6433.38	8157.65	-5748.99	5787.93	8157.88	134.81	1.13	-0.28	-1.09	6
Velocity	15425	15372	89.87	121.69	S 58.3 E	87	6433.80	8242.56	-5794.82	5861.88	8242.66	134.67	0.40	0.33	-0.22	6
Last Svy	15466	15413	89.85	120.92	S 59.1 E	41	6433.90	8282.50	-5816.12	5896.91	8282.56	134.60	1.88	-0.05	-1.88	6
Projection	15466	15466	89.85	120.92	S 59.1 E	53	6434.04	8334.04	-5843.35	5942.38	8334.06	134.52	0.00	0.00	0.00	6





- Notes:
- All wells within 500' of the horizontal leg are shown on this plat are based upon information taken from DEP mapping, well plats, & aerial photos.
  - 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. No dwellings or buildings were found within 625' from the center of the proposed pad. No producing trout stream is located within 300' of LOD. There is a permit modification dated 1/29/14 with a waiver for the distance of the LOD from Big Run.

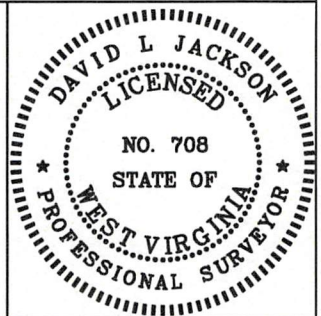


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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 July 10, 2023  
OPERATOR'S WELL NO. T1-03-1A  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 724.1' WATER SHED Big Run of Outlet Middle Island Creek (HUC-10)  
DISTRICT McElroy COUNTY Tyler  
QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Edsel Hoover, Jr., Eileen Young, Terry & Terese Jackson ACREAGE 112.25 ac.  
OIL & GAS ROYALTY OWNER J.E. Spence LEASE ACREAGE 120.1/2029  
LEASE NO. T1-03 See Page 2

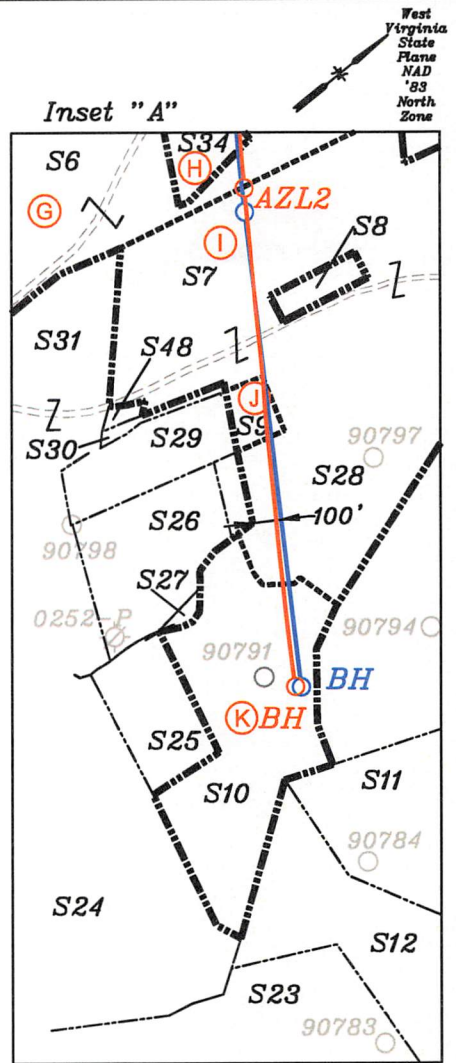
PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,434'; TMD 15,466'  
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



form: ww6

Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S1	05-05-15	EDSEL HOOVER, TERRY & TERESA JACKSON, & EILEEN YOUNG	112.25
C	S2	05-10-04	DONALD J LISBY & JUDITH A LISBY	80
D	S3	P/O 05-10-12	JOSEPH BOYD	10.25
E	S4	P/O 05-10-12	JOSEPH BOYD	35
F	S5	05-11-47.2	DARRIN H LEMASTERS	46.344
G	S6	05-11-24	DONALD THOMAS; DALLAS YEATER & MARY ANN YEATER; ROBERT LEE THOMAS	55.4
I	S7	05-11-25	BEVERLY GUYNN ET AL	49.732
	S8	05-11-25.9	CARL G DAVIS	1
J	S9	05-11-25.11	BEVERLY GUYNN ET AL	0.8
K	S10	05-11-25.15	LOVELL R & EILENE G DAVIS	12.28
	S11	05-11-36.1	JOHN W KILE EST	50
	S12	05-11-25.18	TODD E & CONNIE L DAVIS	10
B	S13	05-10-03	JASON M & AIMEE L STEVENS	27.25
	S14	05-11-12	SARAH GATRELL	47
	S15	05-11-11	REX S GODDARD	25
	S16	05-11-26	DAVID LEE KYLE	40.58
	S17	05-11-26.1	DAVID LEE KYLE	0.26
	S18	05-11-04	DAVE & ANNIE UNDERWOOD ESTS	136
	S19	05-11-13	JENNY L HOOVER	30.05
	S20	05-11-27	JOHN & PATTY MONTGOMERY	65
	S21	05-11-36	JOHN W KILE EST	57
	S22	05-11-41	TODD E & CONNIE L DAVIS	18.82
	S23	05-16-02	MICHAEL D & BAN T SLOSS; CULLEN JOSEPH SLOSS	81.78
	S24	05-11-25.12	JAMES R YEATER	13.75
	S25	05-11-25.7	TODD E & CONNIE L DAVIS	3.032
	S26	05-11-25.10	ROSIE MARY CRAMER	2.44
	S27	05-11-25.16	ROSIE MARY CRAMER	0.14
	S28	05-11-25.14	ROSIE MARY CRAMER	0.54
	S29	05-11-25.6	ROSIE MARY CRAMER	2.19
	S30	05-11-25.13	ROSIE MARY CRAMER	0.18
	S31	05-11-46	ALVA D SPENCER EST ET AL	257
	S32	05-11-47.1	EUGENE R FRENCH & HILDA FRENCH	9.718
	S33	05-11-24.1	ROBERT L & MICHELLE R THOMAS	0.99
H	S34	05-11-24.2	JONI L THOMAS & GEORGE W MCCROBIE	1.1
	S35	05-11-47	JAY BEE OIL & GAS INC	43.438
	S36	05-10-14	CHARLENE L GARRISON	32.5
	S37	05-10-14.1	RICKEY L BOYD & ROBERTA J BOYD	2.5
	S38	05-10-12.1	JOSEPH BOYD	28.25
	S39	05-10-12	JOSEPH BOYD	66
	S40	05-10-11	LONNIE C & DEBBIE K FREY	85
	S41	05-10-47	JAMES WRIGHT	2
	S42	05-11-48	S D & M E SPENCER ESTATE	18.25
	S43	05-10-2.14	JACK F STARCHER JR & ROBERTA A STARCHER	60.832
	S44	05-05-14	LAURA L GARGASZ	62.5
	S45	05-05-17	BRIAN K & KATHRYN A HAYDEN	61.73
	S46	05-11-49	JUDY NICHOLS (LIFE ESTATE) & MARK L NICHOLS & MITCHELL B NICHOLS	133.71
	S47	05-10-15	JOSEPH A BOYD	0.5
	S48	05-11-23	LIZABETH A MCCOURT & PATRICK A JENKINS	0.3
	S49	05-10-10	KENNETH R & JENNIFER L MASON	55
	S50	05-10-48	ROBERT C MCMAHON	0.36



**As Drilled Leg**  
**Proposed Leg**

**Top Hole**  
Geo NAD 83- 39.448699 N, 80.802032 W  
UTM NAD 83(Meters)-4366589.85 N, 517033.65 E  
UTM NAD 83(Feet)-14326053.52 N, 1696301.22 E

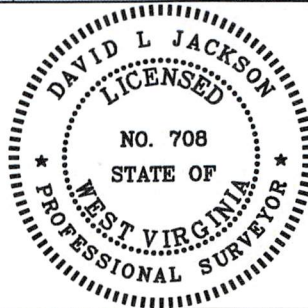
**Landing Point 1**  
Geo NAD 83- 39.447032 N, 80.805096 W  
UTM NAD 83(Meters)-4366404.25 N, 516770.39 E  
UTM NAD 83(Feet)-14325444.59 N, 1695437.52 E

**Azimuth Point 1**  
Geo NAD 83- 39.436812 N, 80.788460 W  
UTM NAD 83(Meters)-4365273.27 N, 518204.49 E  
UTM NAD 83(Feet)-14321734.04 N, 1700142.58 E

**Azimuth Point 2**  
Geo NAD 83- 39.435294 N, 80.785649 W  
UTM NAD 83(Meters)-4365105.40 N, 518446.73 E  
UTM NAD 83(Feet)-14321183.30 N, 1700937.31 E


**Bottom Hole**  
Geo NAD 83- 39.432932 N, 80.780644 W  
UTM NAD 83(Meters)-4364844.31 N, 518878.13 E  
UTM NAD 83(Feet)-14320326.70 N, 1702352.67 E

Jay-Bee Oil & Gas, Inc. - T1-03-1A Permit - WW-6A1 Exhibit				
Tracts	District Tax Map/Parcel	JB Tract #	Lessor, Grantor, etc.	Deed Book/Page
A	05-5-15	p/o T1-03	Sara L. Anetsberger, et al	390/211
B	05-10-3	T5004	Gladya Blizzard, et al	412/345
C	05-10-4	p/o T1-03	Bernice Baker, et al	391/342
D	p/o 05-10-12	W668D	Barbara Baker, et al	406/736
E	p/o 05-10-12	p/o W668B	Joseph Boyd, et al	381/281
F	05-11-47.2	p/o FoutT30B	Connie Bowen, et al	418/565
G	05-11-24	p/o FoutT30A	Richard L. Clark, et al	410/263
H	5-11-24.2	p/o FoutT30A	Richard L. Clark, et al	410/263
I	05-11-25	T3054A	Eugene H Armstrong, et al	426/68
J	05-11-25.11	T3054J	Estella Goodfellow, et al	383/779
K	05-11-25.15	T3054C	Lovell R. Davis & Eilene G. Davis, et al	471/417



P.S. 708 *David L Jackson*

12/01/2023



Jay Bee Oil & Gas  
**DRILLING**  
into the future

OPERATOR'S WELL #: T1-03-1A

DISTRICT: McElroy

COUNTY: Tyler

STATE: WV

API #: 47-095-2806

**WELL PLAT**

PAGE 2 OF 2

DATE: 07/10/2023