

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

API 47-095-02458 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Dopey Field/Pool Name _____
Farm name John & Patty Montgomery Well Number Dopey 1
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 4365409.33 Easting 519568.85
Landing Point of Curve Northing 4365033.22 Easting 519416.91
Bottom Hole Northing 4363506.40 Easting 520322.83

Elevation (ft) 910.3' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Synthetic OBM

Date permit issued 09/15/17 Date drilling commenced 03/08/18 Date drilling ceased 03/18/18
Date completion activities began 05/17/18 Date completion activities ceased 06/14/18
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

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Freshwater depth(s) ft 176.91' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: JEB
5/29/2019

API 47-095 - 02458 Farm name John & Patty Montgomery Well number Dopey 1

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	30'	New	J55-40LB/FT		Y
Surface	17 1/2"	13 3/8"	376'	New	J55-32LB/FT	43'&373'	Y
Coal							
Intermediate 1	11"	8 5/8"	2067'	New	J-55/24#	85'&1819'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	13244'	New	P110-17LB/FT		Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	403	15.6	1.1966	482	CTS	8
Coal							
Intermediate 1	Class A	646	15.6	1.1881	768	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	1902	14.5	1.1744	2234	1000'	8
Tubing							

Drillers TD (ft) 13261 Loggers TD (ft) 13261

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6200

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 _____ RECEIVED
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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____ MAY 7 2019

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____ WV Department of
Environmental Protection

API 47-095 - 02458

Farm name John & Patty Montgomery

Well number Dopey 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/17/18	13072	13004	45	Marcellus
2	5/17/18	12985	12845	72	Marcellus
3	5/17/18	12784	12645	72	Marcellus
4	5/17/18	12610	12433	72	Marcellus
5	5/20/18	12380	12235	72	Marcellus
6	6/7/18	12191	12056	72	Marcellus
7	6/7/18	12018	11855	72	Marcellus
8	6/8/18	11815	11644	72	Marcellus
9	6/8/18	11604	11447	72	Marcellus
10	6/9/18	11408	11279	72	Marcellus
11	6/9/18	11233	11055	72	Marcellus
12	6/10/18	11017	10876	72	Marcellus
13	6/10/18	10835	10647	72	Marcellus
14	6/10/18	10600	10460	72	Marcellus
15	6/10/18	10412	10269	72	Marcellus
16	6/11/18	10214	10083	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

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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	5/17/18	54	7253	6191	4385	175020	8157	N/A
2	5/17/18	63	6387	6480	5103	174880	12433	N/A
3	5/17/18	59	6205	6141	5275	178900	6441	N/A
4	5/17/18	66	6535	5934	4927	164220	6383	N/A
5	5/20/18	73	6594	6304	4662	219820	8501	N/A
6	6/7/18	72	6670	5923	3723	218440	6574	N/A
7	6/7/18	78	7137	7231	5116	220570	6486	N/A
8	6/8/18	61	6204	5793	5287	221180	10827	N/A
9	6/8/18	74	6366	6221	5496	221120	6604	N/A
10	6/9/18	77	6388	5614	4895	219560	6636	N/A
11	6/9/18	78	6487	5670	4883	214840	6226	N/A
12	6/10/18	78	6619	6212	4925	220540	6640	N/A
13	6/10/18	76	6670	6016	5604	215120	10128	N/A
14	6/10/18	80	6494	5384	4577	217180	6374	N/A
15	6/10/18	68	6682	6077	6163	211880	6556	N/A
16	6/11/18	67	6309	5750	4739	217980	6433	N/A

Please insert additional pages as applicable.

API 47- 095 - 02458

Farm name John & Patty Montgomery

Well number Dopey 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	6/11/18	10040	9866	72	Marcellus
18	6/11/18	9820	9673	72	Marcellus
19	6/11/18	9630	9483	72	Marcellus
20	6/12/18	9442	9278	72	Marcellus
21	6/12/18	9242	9108	72	Marcellus
22	6/12/18	9035	8903	72	Marcellus
23	6/12/18	8850	8697	72	Marcellus
24	6/12/18	8652	8501	72	Marcellus
25	6/13/18	8462	8285	72	Marcellus
26	6/13/18	8242	8123	72	Marcellus
27	6/13/18	8068	7903	72	Marcellus
28	6/13/18	7852	7728	72	Marcellus
29	6/13/18	7653	7502	72	Marcellus
30	6/13/18	7463	7327	72	Marcellus
31	6/14/18	7272	7079	72	Marcellus

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

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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 (bbbls)	Amount of Nitrogen (mcf)	Amount of Sand (mcf)
17	6/11/18	81	6408	6129	4991	225026	6889	N/A	N/A
18	6/11/18	79	6411	6781	4447	176,610	6310	N/A	N/A
19	6/11/18	80	6393	5800	4774	213940	5984	N/A	N/A
20	6/12/18	73	6239	5680	4791	216160	7113	N/A	N/A
21	6/12/18	74	6233	5677	5015	215380	6460	N/A	N/A
22	6/12/18	71	6167	6080	4724	218180	6245	N/A	N/A
23	6/12/18	79	6253	6080	4986	220780	5817	N/A	N/A
24	6/12/18	79	6438	6050	4168	213960	5859	N/A	N/A
25	6/13/18	74	6393	6310	4785	223960	6659	N/A	N/A
26	6/13/18	80	6281	6059	4031	211120	6516	N/A	N/A
27	6/13/18	82	6512	5857	3895	218400	6674	N/A	N/A
28	6/13/18	75	6351	5898	3809	218260	6357	N/A	N/A
29	6/13/18	79	6451	6710	5284	216900	5827	N/A	N/A
30	6/13/18	78	6469	7340	4127	218120	5862	N/A	N/A
31	6/14/18	79	6120	6530	3821	221920	6222	N/A	N/A

Please insert additional pages as applicable.

API 47- 095 - 02458 Farm name John & Patty Montgomery Well number Dopey 1

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6659	TVD	13261 MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2600 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5800 mcfpd Oil 30 bpd NGL _____ bpd Water 50 bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

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

Logging Company Appalachian Well Surveys Inc
Address 10291 Ohio Avenue City Cambridge State OH Zip 43725

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

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

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Please insert additional pages as applicable.

Completed by Tyler DuFour Telephone 304-628-3111
Signature [Signature] Title Office Manager Date 5/3/19

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Jay-Bee Oil & Gas, Inc.
API No: 47-095-02458 County: Tyler
District: McElroy Well No: Dopey 1
Farm Name: John & Patty Montgomery
Discharge Date/s From:(MMDDYY) _____ To: (MMDDYY) _____
Discharge Times. From: n/a To: n/a
Total Volume to be Disposed from this facility (gallons): NO DISCHARGE
Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
(2) UIC: _____ Permit No. _____
(3) Offsite Disposal: _____ Site Location: _____
(4) Reuse: _____ Alternate Permit Number: _____
(5) Centralized Facility: _____ Permit No. _____
(6) Other method: _____ (Include an explanation)

Follow Instructions below to determine your treatment category:

Optional Pretreatment test: n/a Cl- mg/l n/a DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) N If yes, who? n/a and place a four (4) on line 7.
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) N If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) n/a If yes, go to line 4
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) n/a If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) n/a If yes, go to line 6
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l?(Y/N) n/a If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. n/a is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: n/a

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Name of Principal Exec. Officer: Tyler DuFour

MAY 7 2019

Title of Officer: Office Manager

Date Completed: 5/3/19

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Signature of a Principal Exec. Officer or Authorized agent.

OIL AND GAS RECLAMATION NOTICE

TO:

Name John & Patty Montgomery

Address 107 Basil Drive Weirton, WV 26047

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 - 02458 _____;

Acreage 65 Acres _____;

Watershed Indian Creek _____;

District McElroy _____;

County Tyler _____;

Public Road Access _____;

Generally used farm name John & Patty Montgomery _____.

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 & Gas, Inc.

Address 3570 Shields Hill Rd.

Cairo, WV 26337

Telephone 304-628-3111

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Lithology

Dopey 1

47-095-02458

FORMATION	TOP	BOTTOM
MISC. RED ROCK & SHALES	0	1960
LIME	1960	2060
INJUN	2060	2177
SHALE	2177	2524
GORDON STRAY	2524	2544
SHALE	2544	2740
GORDON	2740	2770
SHALE	2770	3049
BAYARD	3049	3058
SHALE	3058	3387
WARREN	3387	3485
SHALE	3485	3721
BALLTOWN	3721	3884
SHALE	3884	4322
2ND RILEY	4322	4430
SHALE	4430	4581
3RD RILEY	4581	4622
SHALE	4622	4679
BENSON	4679	4682
SHALE	4682	4924
ALEXANDER	4924	5095
SHALE	5095	5340
ELK	5340	5388
SHALE	5388	5717
HAMILTON	5717	5891
SHALE	5891	6547
UPPER MARCELLUS	6547	6570
PARCELL LIME	6570	6605
SHALE	6605	6627
LOWER MARCELLUS	6627	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/17/2018
Job End Date:	6/14/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02458-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Dopey 1
Latitude:	39.43800900
Longitude:	-80.77260000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,659
Total Base Water Volume (gal):	9,080,106
Total Base Non Water Volume:	68,071



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	91.30861	
Other Chemical(s)	Listed Above	See Trade Name (s) List					
			Water	7732-18-5	55.00000	0.01287	

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				Water	7732-18-5	55.00000	0.01455	
				Water	7732-18-5	50.00000	0.04003	
				Water	7732-18-5	60.00000	0.00089	
				Water	7732-18-5	85.00000	0.51378	
CS-1000 SI	FTSI	Scale Inhibitor						
					Listed Below			
100 Mesh Sand	FTSI	Proppant						
					Listed Below			
20/40 White	FTSI	Proppant						
					Listed Below			
ICI-3240	FTSI	Biocide						
					Listed Below			
HVG-1 4.0	FTSI	Water gelling agent						
					Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor						
					Listed Below			
	FTSI	Proppant						

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MA 30/56 White
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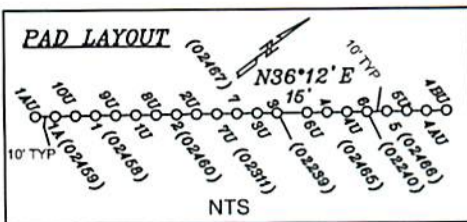
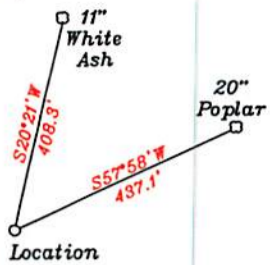
FRW-1450	FTSI	Friction Reducer				Listed Below			
SPB-1	FTSI	Breaker				Listed Below			
CS-500 SI	FTSI	Scale inhibitor				Listed Below			
10.1%-15.0% HCL	FTSI	Acid				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.									
						14808-60-7	100.00000	4.27400	
						14808-60-7	100.00000	2.88849	
						14808-60-7	100.00000	0.78314	
						7647-01-0	15.00000	0.09067	
						64742-47-8	30.00000	0.02402	
						9003-05-8	30.00000	0.02402	
						6419-19-8	35.00000	0.00819	
						533-74-4	24.00000	0.00635	
						1310-73-2	23.00000	0.00608	
						78330-21-9	5.00000	0.00400	
						64742-47-8	55.00000	0.00393	

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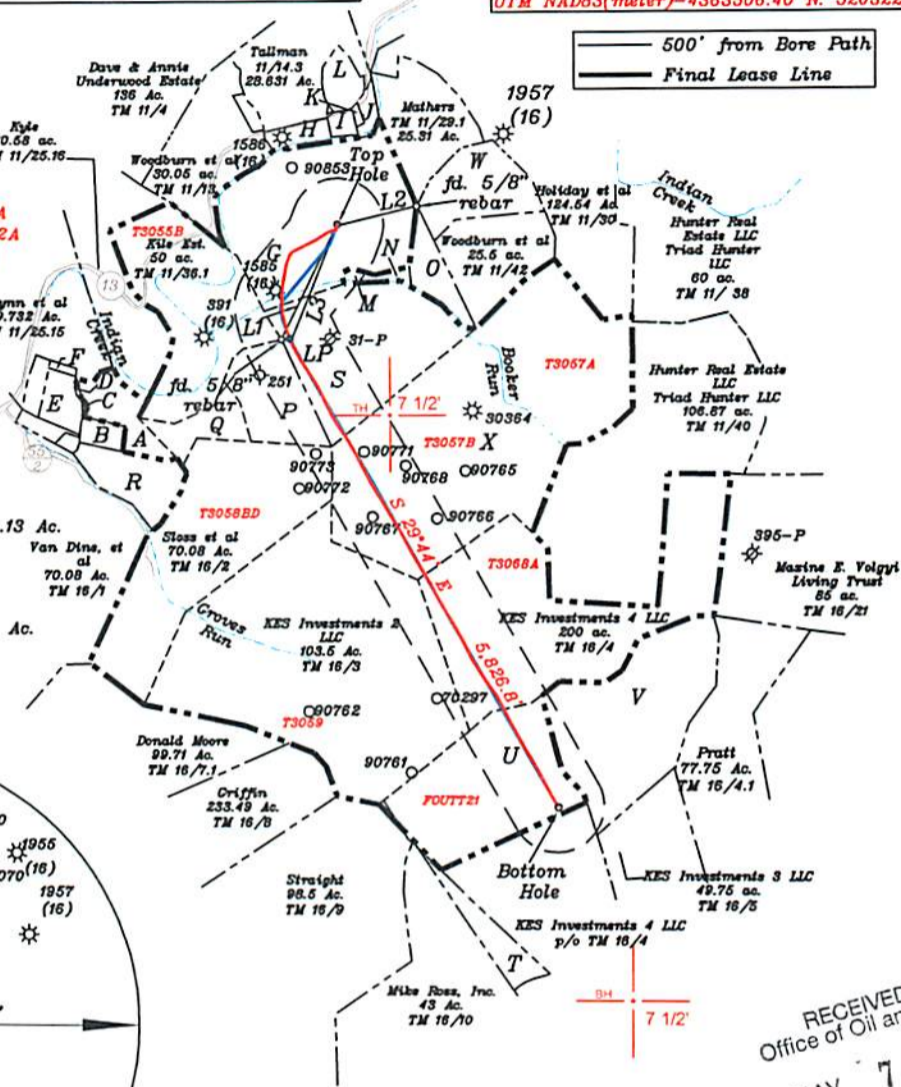
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References



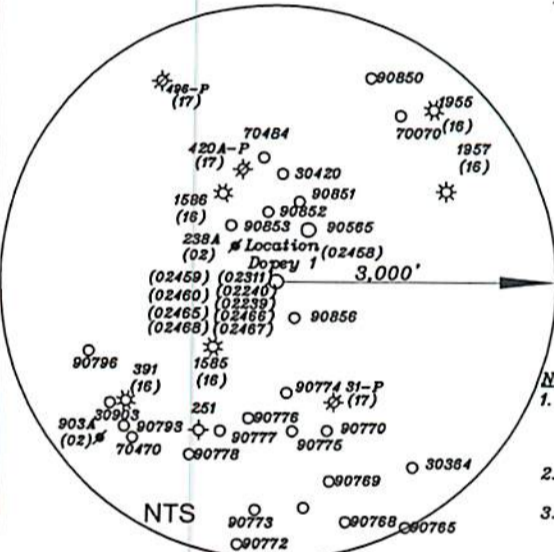
Top Hole	UTM NAD83(meter)-4365409.40 N. 519568.98 E
Landing Point	UTM NAD83(meter)-4364983.34 N. 519443.79 E
Bottom Hole	UTM NAD83(meter)-4363509.76 N. 520319.30 E
Top Hole	UTM NAD83(meter)-4365409.33 N. 519568.85 E
Landing Point	UTM NAD83(meter)-4365033.28 N. 519416.91 E
Bottom Hole	UTM NAD83(meter)-4363506.40 N. 520322.83 E

- A- L. Davis TM 11/25.15 12.28 Ac.
- B- T. Davis TM 11/25.7 3.032 Ac.
- C- Cramer TM 11/25.16 0.14 Ac.
- D- L. Davis TM 11/25.15 12.28 Ac.
- E- Cramer TM 11/25.10 2.44 Ac.
- F- Cramer TM 11/25.14 0.54 Ac.
- G- Montgomery TM 11/27 65 Ac. T3055A
- H- Montgomery TM 11/14 2.18 Ac. T3052A
- I- Vincent TM 11/14.4 1.82 Ac. T3052A
- J- Riter (Life) TM 11 /29 1.63 Ac.
- K- Stillman TM 11 /28 0.37 Ac.
- L- Tallman TM 11 /14.5 5.135 Ac. T3052A
- M- Woodburn et al TM 11/45 0.755 Ac.
- N- Woodburn et al TM 11/44 1.5 Ac.
- O- Woodburn et al TM 11/44 6.75 Ac.
- P- Davis TM 11/41 18.82 Ac.
- Q- Davis TM 11/25.18 10 Ac.
- R- Yeater TM 11/25.12 13.75 Ac.
- S- Kile estate TM 11/36 57 Ac.
- T- Straight TM 16/11 12 Ac.
- U- KES Investments 3 LLC TM 16/4 49.13 Ac.
- V- KES Investments 3 LLL TM 16/4 Residue of 78.4 Ac.
- W- Woodburn et al TM 11/43 35 Ac.
- X- Hunter Real Estate LLC Triad Hunter LLC TM 11/37 147 Ac.



NORTH

Top Hole 7,342' Bottom Hole 13,655' LONGITUDE 80-45-00 W



Notes:

- All wells within 500' of the horizontal leg are shown on this plat 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.
- No water wells were found within 250' of the well location. A house was found N55°54'W 614.3' from the center of the well pad.

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NUMBER	DIRECTION	DISTANCE
L1	S 26°15' W	1,376.1'
L2	N 57°58' E	437.1'
L3	S 22°57' W	1,331.1'

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 February 12, 2019
OPERATOR'S WELL NO. Dopey 1
API WELL NO. 47 - 095 - 02458

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

LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)
DISTRICT McElroy COUNTY Tyler
QUADRANGLE Shirley 7 1/2'

SURFACE OWNER John & Patty Montgomery ACREAGE 65 ac.
OIL & GAS ROYALTY OWNER & LEASE NO. See Above for Lease Numbers

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

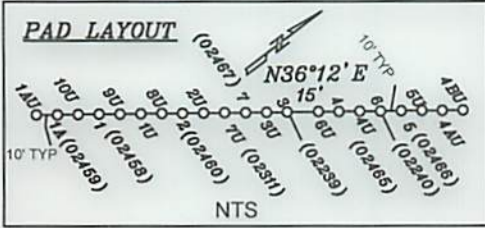
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,659.2'; TMD = 13,261'

WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

References

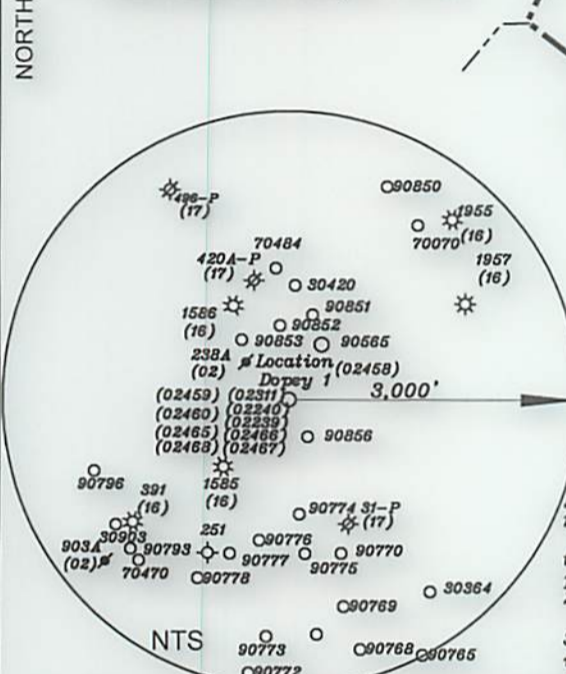
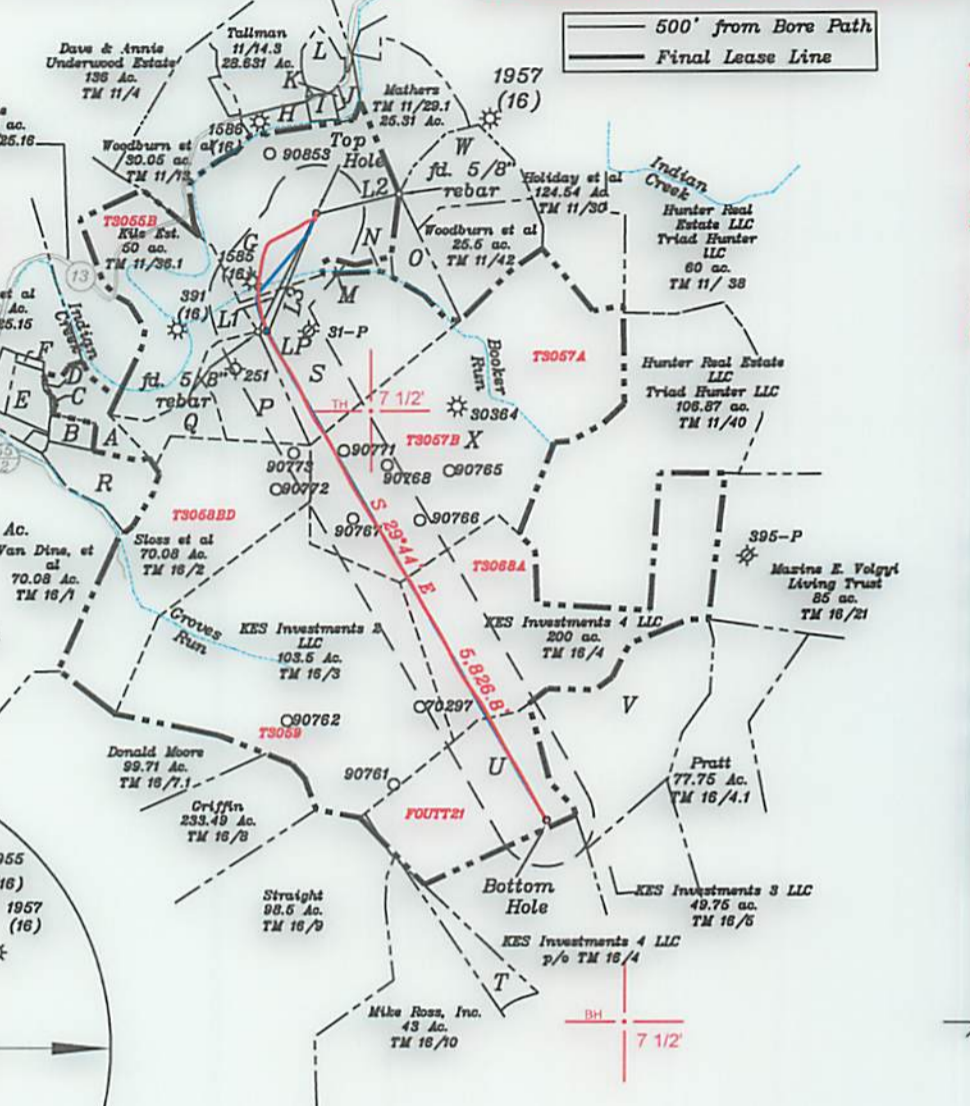


PAD LAYOUT



Top Hole	UTM NAD83(meter)-4365409.40 N. 519568.98 E
Landing Point	UTM NAD83(meter)-4364983.34 N. 519443.79 E
Bottom Hole	UTM NAD83(meter)-4363509.76 N. 520319.30 E
Top Hole	UTM NAD83(meter)-4365409.33 N. 519568.85 E
Landing Point	UTM NAD83(meter)-4365033.28 N. 519416.91 E
Bottom Hole	UTM NAD83(meter)-4363506.40 N. 520322.83 E

- A- L. Davis TM 11/25.15 12.28 Ac.
- B- T. Davis TM 11/25.7 3.032 Ac.
- C- Cramer TM 11/25.16 0.14 Ac.
- D- L. Davis TM 11/25.15 12.28 Ac.
- E- Cramer TM 11/25.10 2.44 Ac.
- F- Cramer TM 11/25.14 0.54 Ac.
- G- Montgomery TM 11/27 65 Ac. T3055A
- H- Montgomery TM 11/14 2.18 Ac. T3052A
- I- Vincent TM 11/14.4 1.82 Ac. T3052A
- J- Ritter (Life) TM 11/29 1.63 Ac.
- K- Stillman TM 11/28 0.37 Ac.
- L- Tallman TM 11/14.5 5.135 Ac. T3052A
- M- Woodburn et al TM 11/45 0.755 Ac.
- N- Woodburn et al TM 11/44 1.5 Ac.
- O- Woodburn et al TM 11/44 6.75 Ac.
- P- Davis TM 11/41 18.82 Ac.
- Q- Davis TM 11/25.18 10 Ac.
- R- Yeater TM 11/25.12 13.75 Ac.
- S- Kile estate TM 11/36 57 Ac.
- T- Straight TM 16/11 12 Ac.
- U- KES Investments 3 LLC TM 16/4 49.13 Ac.
- V- KES Investments 3 LLL TM 16/4 Residus of 78.4 Ac.
- W- Woodburn et al TM 11/43 35 Ac.
- X- Hunter Real Estate LLC Triad Hunter LLC TM 11/37 147 Ac.



- Notes:
- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
 - Ties to wells and corners are based on State Plane Crid North-WV North Zone NAD 83.
 - No water wells were found within 250' of the well location. A house was found N55°54'W 614.3' from the center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	S 26°15' W	1,376.1'
L2	N 57°58' E	437.1'
L3	S 22°57' W	1,331.1'

(+) 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 February 12, 2019
 OPERATOR'S WELL NO. Dopey 1
 API WELL NO. 47 - 095 - 02458
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER John & Patty Montgomery ACREAGE 65 ac.
 OIL & GAS ROYALTY OWNER & LEASE NO. See Above for Lease Numbers

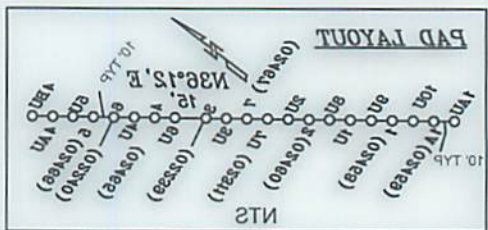
PROPOSED WORK: DRILL ASDRILLED CONVERT FRAC DRILL DEEPER FRAC REDRILL FRAC FRACTURE OR STIMULATE FRAC PLUG OFF OLD FORMATION FRAC PERFORATE NEW FORMATION FRAC OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON FRAC CLEAN OUT AND REPLUG FRAC

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,659.2'; TMD = 13,261'

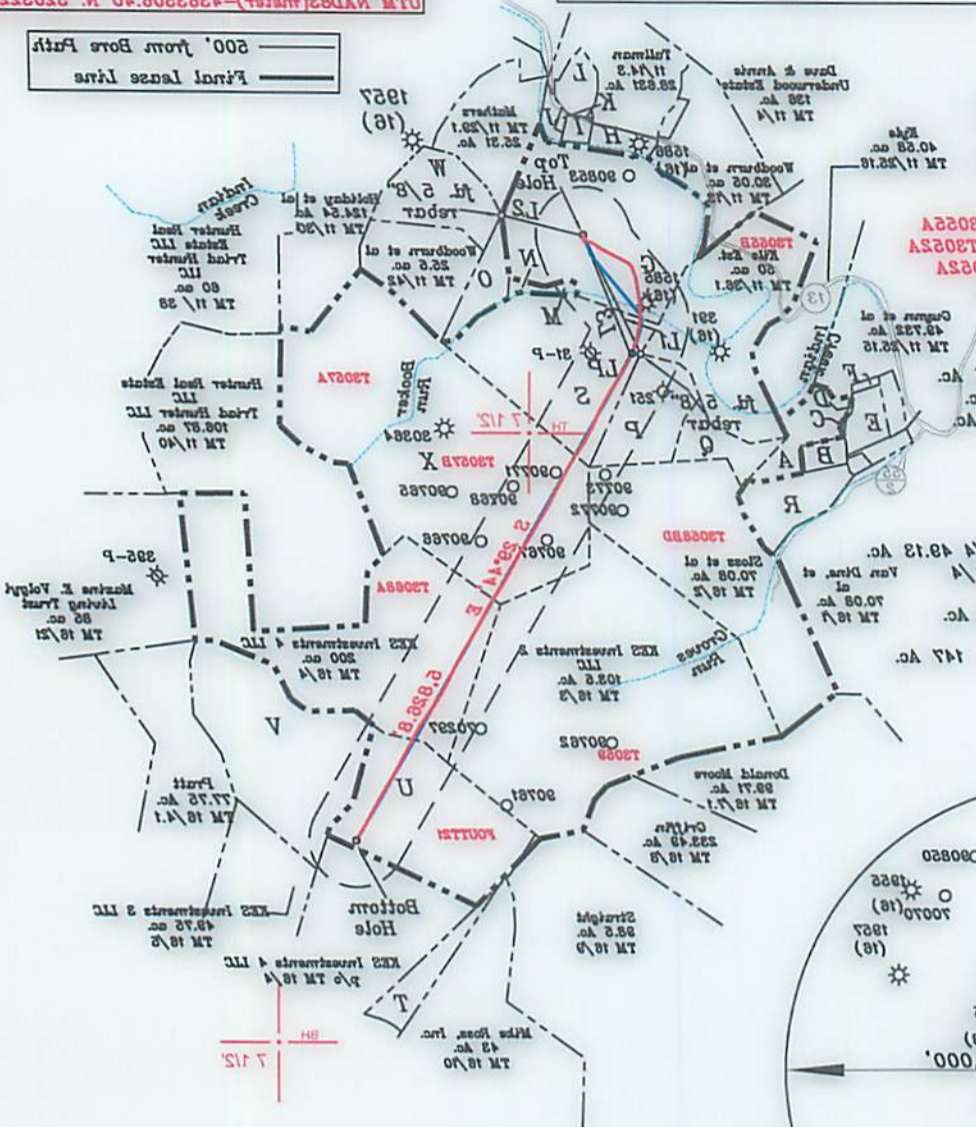
WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

Bottom Hole 13,655' | Longitude 80-45-00 W | Top Hole 7,342'

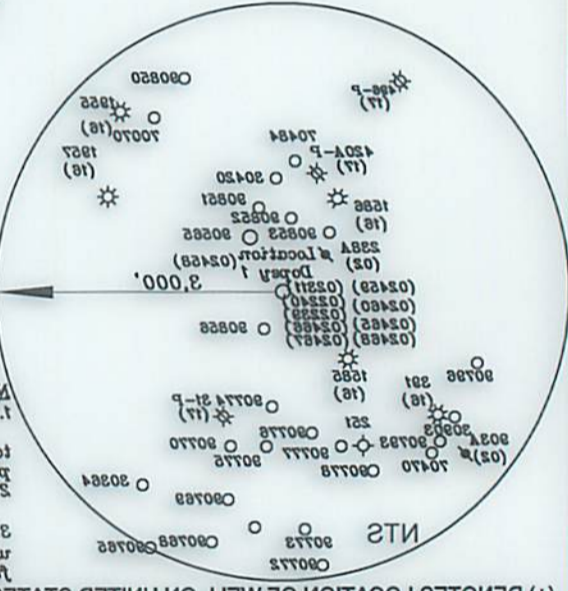


Top Hole	UTM NAD83 (meter) - 4382403.40 N. 518288.98 E
Landing Point	UTM NAD83 (meter) - 4384983.34 N. 518443.78 E
Bottom Hole	UTM NAD83 (meter) - 4382808.78 N. 520319.30 E
Top Hole	UTM NAD83 (meter) - 4382403.33 N. 518288.82 E
Landing Point	UTM NAD83 (meter) - 4385033.28 N. 518418.91 E
Bottom Hole	UTM NAD83 (meter) - 4382808.40 N. 520323.82 E

500' from Bore Path
Final Lease Lines



- A- L Davis TM 11/25/15 12.28 Ac.
- B- T Davis TM 11/25/15 0.14 Ac.
- C- Crummet TM 11/25/15 12.28 Ac.
- D- L Davis TM 11/25/15 12.28 Ac.
- E- Crummet TM 11/25/15 0.24 Ac.
- F- Crummet TM 11/25/15 0.24 Ac.
- G- Montgomery TM 11/27/15 85 Ac.
- H- Montgomery TM 11/27/15 85 Ac.
- I- Virent TM 11/27/15 1.82 Ac.
- J- Ritter (L&P) TM 11/29/15 1.82 Ac.
- K- Stillson TM 11/28/15 0.27 Ac.
- L- Tallman TM 11/28/15 0.27 Ac.
- M- Woodburn et al TM 11/25/15 0.755 Ac.
- N- Woodburn et al TM 11/25/15 0.755 Ac.
- O- Woodburn et al TM 11/25/15 0.755 Ac.
- P- Davis TM 11/25/15 10 Ac.
- Q- Davis TM 11/25/15 10 Ac.
- R- Yeater TM 11/25/15 12.75 Ac.
- S- Kile estate TM 11/28/15 27 Ac.
- T- Straight TM 11/28/15 12 Ac.
- U- KES Investments 3 LLC TM 11/28/15 43.13 Ac.
- V- KES Investments 3 LLC TM 11/28/15 43.13 Ac.
- W- Woodburn et al TM 11/25/15 35 Ac.
- X- Hunter Real Estate LLC TM 11/27/15 147 Ac.
- Y- Tread Hunter LLC TM 11/27/15 147 Ac.



Notes:
1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plans & aerial photos.
2. Ties to wells and corners are based on State Plane Grid North-WY North Zone NAD 83.
3. No water wells were found within 250' of the well location. A horse was found W52.54' W 814.3' from the center of the well pad.

AS-DRILLED LEG
PROPOSED LEG

NUMBER	DIRECTION	DISTANCE
13	S 25.57' W	1.3317'
12	N 57.58' E	1.3717'
11	S 28.15' W	1.3781'



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.
David Jackson
P.S. 708 (SIGNED)

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

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 910.3' WATER SHED Indiana Creek - Outlet Middle Island Creek (HUC-10)
DISTRICT McHenry
QUADRANGLE Shirley 7 1/2'
SURFACE OWNER John & Patty Montgomery
OIL & GAS ROYALTY OWNER & LEASE NO. _____
See Above for Lease Numbers
ACREAGE 65 ac.
COUNTY Tyler

DATE February 15, 2019
OPERATOR'S WELL NO. Doby 1
API WELL NO. 47 - 095 - 02458
STATE COUNTY PERMIT

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
TARGET FORMATION Marcellus ESTIMATED DEPTH _____
PLUG AND ABANDON CLEAN OUT AND REPLUG _____
DESIGNATED AGENT Randy Broda
WELL OPERATOR Jay Bee Oil & Gas, Inc.
ADDRESS 3570 Shields Hill Road, Carro, WV 26337
TVD = 6,658.2'; TMD = 13,261'
ASDRILLED