



May 8, 2024

Via E-mail

Pennsylvania Department of Environmental Protection
Bureau of Oil & Gas Management
400 Waterfront Drive
Pittsburgh, PA 15222

RE: Notice of Intention by Well Operator to Plug a Well
David Spangler 454
Permit Number 37-003-00730
Monroeville Borough, Allegheny County, Pennsylvania

Dear DEP Recipient,

Please find attached the following documentation:

- Completed Form 8000-FM-OOGM0005 "Notice of Intention by Well Operator to Plug a Well"
- Plugging Prognosis
- Form 8000-PM-OOGM0002 "Well Location Plat"
- Available Well Record and/or Completion Report

Pursuant to the COA between EQT Production Company and the Department of Environmental Protection we are submitting a group of wells to be plugged in Q2 of 2024. Notice will be given to the appropriate inspector at least 72 hours prior to commencement of plugging.

If you need further information regarding this submittal, please feel free to contact me at OPishioneri@eqt.com or 724-250-0180

Best Regards,

A handwritten signature in blue ink, appearing to read 'Olivia Wilson'.

Olivia Wilson
Project Specialist - Permitting



DEP USE ONLY	
Auth. No. 1484262	U.S. Well

NOTICE OF INTENTION BY WELL OPERATOR TO PLUG A WELL

Received: 5/9/24

<input checked="" type="checkbox"/> Well Operator <input type="checkbox"/> Coal Operator		OGO No. 61555	U.S. Well No. (Permit / Reg) 37-003-00730	Date Drilled (If known) 5/30/17
Name EQT Production Company		Well Farm Name David Spangler		
Address 400 Woodcliff Drive		Telephone No. 724-271-7314	Well No. 454	Well Serial No. 29264
City Canonsburg	State PA	Zip Code 15317	County Allegheny	
<input type="checkbox"/> Agent (contractor) acting on behalf of the operator named above.		Municipality Monroeville Borough		
Address		Telephone No.	Latitude (DD) 40.448901	Longitude (DD) - 79.746148
City	State	Zip Code	<i>Attach well record if not previously submitted.</i>	

Complete this section if applicable. Prior to abandoning any well in an area underlain by a workable coal seam, the well operator or owner shall notify the coal operator, lessee, or owner of the intention to plug and abandon the well, and shall submit a plat showing the location and affix the date and time at which the work of plugging will commence.

Coal: <input type="checkbox"/> Operator <input type="checkbox"/> Owner <input type="checkbox"/> Lessee	Coal: <input type="checkbox"/> Operator <input type="checkbox"/> Owner <input type="checkbox"/> Lessee	Coal: <input type="checkbox"/> Operator <input type="checkbox"/> Owner <input type="checkbox"/> Lessee
Name	Name	Name
Address	Address	Address
City, State, Zip Code	City, State, Zip Code	City, State, Zip Code
Telephone No. Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Telephone No. Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Telephone No. Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No
This Party hereby waives the rights to be notified of the date and time before plugging work will begin and to be present at the plugging of this well. <i>Signature:</i>	This Party hereby waives the rights to be notified of the date and time before plugging work will begin and to be present at the plugging of this well. <i>Signature:</i>	This Party hereby waives the rights to be notified of the date and time before plugging work will begin and to be present at the plugging of this well. <i>Signature:</i>

Scheduled Date and Time of Plugging Plugging is scheduled to begin on (date) 6/23/2024 at (time) 8.00 AM	<input type="checkbox"/> CHECK BLOCK IF THIS WELL IS BEING PLUGGED PERSUANT TO MINE THROUGH STANDARDS OF ACT 214 of 1984 (REVISED 2011) AND the 2012 Oil & Gas Act.
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Checklist and Additional Attached Information <input checked="" type="checkbox"/> Location Plat <input type="checkbox"/> Current Well Record <input checked="" type="checkbox"/> Available Well Record <input type="checkbox"/> Application for Approval of Alternate Method of Plugging <input type="checkbox"/> Mine - Through <input type="checkbox"/> Other, describe:	Signature of Applicant (Operator or Agent) Signature: Date: 5/1/2024 Print or Type Signer's Name and Title Erin Spine - Manager - Subsurface Permitting
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DEP USE ONLY		
If this well has not been permitted or registered previously, DEP hereby assigns this identification number to the well location described in this notice: Identification No. _____ Date _____ Please refer to this number in all future correspondence.	Notice acknowledged by _____ Date _____ DEP Rep. <u>Melissa Visnikar</u> 6-6-2024 (Signature) (Print Name) <u>MELISSA VISNIKAR</u>	Geologist <u>MV</u> Date <u>6-6-2024</u>

Send a copy of this notice to the applicant and the DEP inspectors.

<input type="checkbox"/> Applicant <input type="checkbox"/> Oil and Gas Inspector <input type="checkbox"/> Mine Inspector	Date Received in DEP Office Plugging must begin within 30 days of:
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David Spangler 454
Allegheny County, PA
Monroeville Township
API # 37-003-00730
Date: 4/11/2023

Current Status:

10" casing @ 190', no cement reported

8 1/4" casing @ 907', no cement reported w/packer set at 2392' for 6-5/8" x 3" annulus

6 5/8" casing @ 2022'

TD: 2511'

Elevation: 1065'

Water @ 925', 1777'

Coal @ 315'-317', 522'-526', 631'-638'

Oil @ N/A

Gas @ 2397'

***Cement plugs will be cemented with Class A or Class L cement**

1. Notify State Oil and Gas Inspector **Scott Sabocheck @ 724-769-1070**, 48 hours in advance of commencement of plugging operations.
2. MIRU rig. Begin plugging and abandonment operations.
3. **Conduct Tailgate Safety Meeting. Complete JSA's as required.**
4. **Excavate around well head to attempt to expose any casing(s) covered by earth. Determine the possible presence of any valves. Ensure containment is secure around well head.**
5. Check pressures on all casings with a gauge. Blow down the well into a grounded tank with a secure line.
6. RIH w. tools to check TD. Notify EQT Rep and DEP OGI of attainable bottom.
7. TIH w/ tubing to 2511' set 414' Class A or Class L cement plug from 2511' to 2097'. TOOH let cement cure.
8. RIH w/wireline and run CBL on 6 5/8" casing from 2022' to surface to determine bonded casing.
9. Contact EQT REP and DEP Inspector with Bond Log results and determine perforating and cutting schedule.
10. Attempt to pull 6 5/8" casing per DEP regulations of 120% or 5K which is ever greater.
11. Perforate 6 5/8" casing where specified.
12. TIH w/ tubing to last cement top and cement from last cement top to 50' above top perf. Let cement cure.
13. Attempt to shoot off casing where specified, pull 6 5/8" casing.
14. TIH w/ tubing to last cement top and cement from last cement top to 957' let cement cure.
15. RIH w/wireline and run CBL on 8 1/4" casing from 907' to surface, to determine bonded casing.
16. Attempt to pull 8 1/4" casing per DEP regulations of 120% or 5K which is ever greater.
17. Perforate 8 1/4" casing where specified.
18. TIH w/ tubing to last cement top and cement from last cement top to 50' above top perf. Let cement cure.
19. Attempt to shoot off casing where specified, pull 8 1/4" casing.
20. TIH w/ tubing to last cement top and cement from last cement top to 250' with Class A or Class L cement. let cement cure.
21. Perforate 10" where specified by EQT and DEP reps.
22. TIH w/ tubing to last cement top and cement from last cement top to surface.

23. Top off well to surface with solid cement as needed.
24. Install above grade monument at least 5' with API#, company information and date plugged.
25. Rig Down, move off.
26. Restore well site and access road according to PA DEP regulations.



DEP	Auth ID #	G:
USE	Permit #	C:
ONLY	Project #	

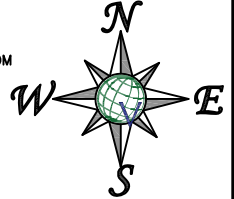
WELL LOCATION PLAT

PAGE 1 Surface Location

SHL True Latitude (NAD 83):	
40	. 448901
SHL True Longitude (NAD 83):	
79	. 746148

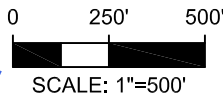
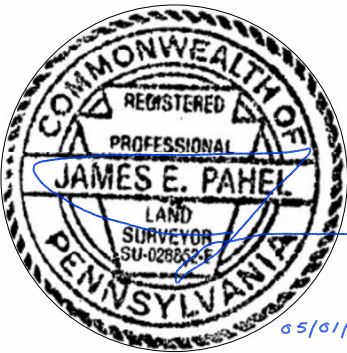
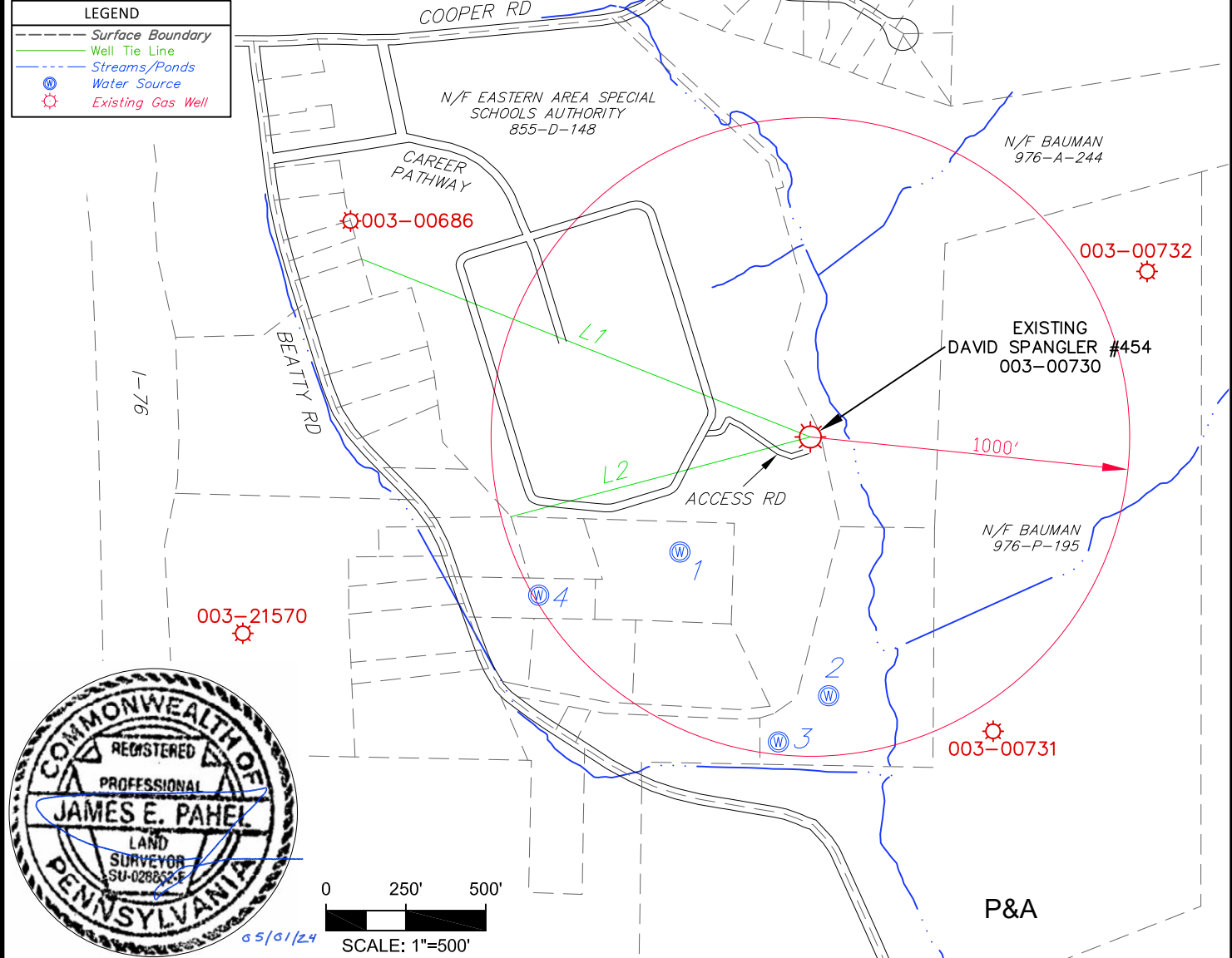
L1	N 68° 21' 47" W	1511'
L2	S 75° 05' 13" W	970'

NOTE: THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF EXISTING GAS WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES, OWNERS, AND WATER LOCATIONS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.



SHL True Latitude (NAD 27):	
40	. 448833
SHL True Longitude (NAD 27):	
79	. 746380

LEGEND	
	Surface Boundary
	Well Tie Line
	Streams/Ponds
	Water Source
	Existing Gas Well



Applicant/Well Operator Name: EQT PRODUCTION COMPANY		DEP ID # 146983	Well (Farm) Name: DAVID SPANGLER		Well #: 454	Serial #: 29264
Address: 400 WOODCLIFF DRIVE, CANONSBURG, PA 15317			County: ALLEGHENY	Municipality: MONROEVILLE BOROUGH	Well Type: GAS	
911 address of well site: N/A			USGS 7½' Quadrangle Map Name: MURRYSVILLE	Map Section: 4	Surface Elevation: 1062 ft.	
Surveyor or Engineer: VERDANTERRA, LLC JAMES E. PAHEL, PLS	Phone #: 724.916.4541	Dwg #: 03523271	Date: 05/01/2024	Scale: 1"=500'	Tract Acreage: 46 ±	
Lat. & Long Metadata Method: GPS	Accuracy: ±3 ft.	Datum: NAD83	Elevation Metadata Method: GPS	Accuracy: ±3 ft.	Datum: NAVD88	Survey Date: SEPT 2023

003-00730

WELL No 292 NAME Daniel Spangler. LEASE No ACRES DATE OF LEASE

IN Patton	TWP Allegheny	COUNTY	DISTRICT	OWNER
CASING-TUBING-PACKER	BEGAN DRILLING 5-30-17	FINISHED DRILLING 8-17-17		WELL NO 454
NO OF FEET	OPEN FLOW 347 M	{ MERCURY } IN	OPENING	MAP
SIZE		{ WATER }		REFERENCE N 51 E 42
	GAGE OF WELL } 1' 2' 3' 4' 5' 10' 30'			DATE
	IN CASING }			TOTAL
	GAGE OF WELL } 1' 2' 3' 4' 5' 10' 30'			PLUGGED
	IN TUBING }			DEPTH
PACKER SET AT				ROCK 2511'
				PRESSURE HOURS 295 POUNDS

FORMATION	TOP	THICKNESS	BOTTOM	REMARKS AND DATA
Freeport coal	526			
Murraysville	1754		1870	
Hundred ft.	1900		1980	
Fifth sand	2395		2407	Gas.
finished at			2511	

WELL RECORD

003-00730

C16 122

Name Dan Spangler Co Allegheny Twp Patton

No 121

Owner Philadelphia Company #454 Contr

Date Aug. 25, 1917. Elev 1065

Product Gas

Drill

Obtained by J.F.R.

Authority

Quad 2 1/2 1/2

Locate by Sketch

GEOL NAME	THICKNESS	FROM	TO	GEOL NAME	THICKNESS	FROM	TO
Clay, yellow	10	0	10	Sand, white, hard	60	915	975
Slate, soft	110	10	120	Slate, dark soft	35		1010
Red rock	70	120	190	Sand	35	1010	1045
Slate, white	125	190	315	Slate, dark	10		1055
Coal	2	315	317	Sand, white	405	1055	1460
Slate	183	317	500	Slate	210		1670
Sand, white, hard	22	500	522	Sand, white & hard	35	1670	1705
Coal	4	522	526	Slate	49		1754
Slate	14		540	Murr. Sand (H ₂ O 1777)	116	1754	1870
Sand, white & hard	79		619	Slate & shells	30		1900
Slate, dark	12		631	Sand, white	80	1900	1980
Coal	7	631	638	Slate	75		2055
Slate, white	6		644	Red rock	15	2055	2080
Sand, white, hard	11		655	Sand, white & hard	35	2080	2115
Slate, dark soft	115		770	Red rock	205		2320
Sand, white, hard	135	770	905	Sand, dark hard	20	2320	2340
Slate, dark soft	10		915	Slate	55		2395

GEOL NAME	THICK-NESS	FROM	TO	GEOL NAME	THICK-NESS	FROM	TO
6" Sand, dark hard	12	2395	2407	Gas 2397			
Slate, white soft	25	2407	2432				
Gas 2397							
0' Sand, white hard	25	2432	2457	Slate, white			
Slate, white	54	2457	2511				
Original 44 1/2" 1st in 2"							
June 1920 V - 48,000							
1919 1.9 H2O in 2"							

003-00730

ER OG 50 3/85

WELL REGISTRATION FORM

To be used for well(s) not permitted or issued drilling file numbers under Act 225, The Pennsylvania Gas Operations, Well-Drilling, Petroleum and Coal Mining Act Supply all available information

003-00730

DEA USE ONLY

Code
GMM 320-86

Equitable Gas Co.
 Operat's Name
 420 Blvd. of the Allies
 Address
 Pittsburgh PA 15219
 (412) 553-5848
 Telephone #

Laura L Langer
 420 Blvd of the Allies
 Pittsburgh, PA 15219
 (412) 559-6132
 Telephone #

Project # _____
 If previously assigned by Dept
 County ALLEGHENY
003

For Department Use Only		API/Registration #	Municipality	Farm Name	Well #	Serial # Optional	Date Drilled	Type Well	T D	Casing Record Size(diam) Length (ft)	Type and amount of cement	Packers Size/Type/Setting/Depth	Producing Horizons	
003-	00702	BALDWIN	JOHN GREENEY	F-21			1924	GAS	3276	13"-10' 6 3/8"-1931 10"-136' 5 3/16"-2117 8 1/4"-983'			GORDON ELIZABETH SPEECHLEY	PGH NW34
003-	00703	BALDWIN	DAVIS HEIRS	F-25			1914	GAS	2753	10"-275' 3"-2756' 6 5/8"-1985' 5 3/16"-2207'	THRU PGH COAL	3 X 5 3/16"-A-2230'	GORDON ST SR ELIZABETH	PGH NW3
003	00698	MIFFLIN	W.W. WILLOCK	F-27	3		1914	GAS	2600	10"-165' 6 5/8"-1274 3"-2603	THRU PGH COAL	6 5/8 X 3/4"-AP-1274 6 5/8 X 3"-AP-2322	BAYARD	PGH SW1
003-	00693	JEFFERSON	THOMPSON HEIRS	F-59			1927	GAS	3498	10"-251 16'-59' 8 1/4"-609 2"-3505 5 3/16"-2844'	Csg Cemt 175'-251'	5 3/16 X 2"-Comb-3430	GANTZ 50'	PGH SW3
003-	00692	JEFFERSON	IVAN BUCAR	F-77			1945	GAS	3242	10"-140 3"-2330 8 1/4"-949 6 5/8"-1169		6 5/8 X 3"-HW-2330	BAYARD SPEECHLEY	PGH SW3
003-	00730	PATTON	DAVID SPANGLER	454			1917	GAS	2511	10"-190' 8 1/4"-907 6 5/8"-2022		FHTD. IENANGED SK PROD AM VENTINED GROUP	5th GROUP	Gbc NW1
003-	00686	PATTON	JAMES I. COOPER	462			1918	GAS	3980	10"-19' 5 3/16"-2798 8 1/4"-1038 6 5/8"-2084		6 5/8 X 5 3/16 HW 2798	BRADFORD	PGH NE2

Attachments Needed:

- 7 1/2 minute topographic map or other description to enable the Department to find the well site on the ground
- Proof of bond or blanket bond
- Alternate fees in lieu of bond
- Driller's log (if available)
- Registration fee of \$15 per well or \$250 for blanket registration on well registrations submitted simultaneously for same project

The registration number issued pursuant to this registration form shall be installed on the well in a legible, conspicuous and permanent manner within 60 days of issuance

MURKISVILLE STATION RD - CLUGSTON FIELD

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES

MURRYVILLE BRITTLE POOL

Oil and Gas Division
HARRISBURG

QUADRANGLE: Murryville 7 1/2' 15'

PERMIT NO. 003-00730

MAP REFERENCE: 608 N-51 E-42

KIND OF WELL: Gas
(Oil, Gas, Other)

WELL RECORD

COMPANY: <u>Equitable Gas Co. Inc.</u>	Size of Casing and Tubing	Used in Drilling	Left in Well	Packers: Type, Size and Depth
ADDRESS: <u>Pittsburgh, Pa.</u>	10"	190'	190'	6-5/8" x 3" Annular
FARM <u>David Spangler</u> ACRES <u>66</u>	8 1/2"	907'	907'	0 2392'
WELL (FARM) NO. _____ CO. SERIAL NO. <u>29264</u>	6-5/8"	2022'	2022'	
ELEVATION: _____ LEASE: <u>10306</u>	3"		Pulled 307'	
TOWNSHIP: <u>Putten</u> COUNTY: <u>Allegheny</u>	2"		Pulled 2154'	
DRILLING COMMENCED: <u>5/30/17</u> DRILLING COMPLETED: <u>8/17/17</u>				
PRODUCTION: <u>347,000 - (8/17/17)</u>				PERFORATIONS AT:
ROCK PRESSURE: _____ psig _____ hrs.				
WELL TREATMENT: (Shooting, Acidizing, Fracturing Etc.)				

Well shot 2/23/13 - 40 qts. at 2406'

CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)

Vol. before 14,900

RESULTS AFTER TREATMENT: 25,600

ROCK PRESSURE AFTER TREATMENT:

REMARKS:

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
coal	315	317				
sand	500	522				
coal	522	526				
sand	540	619				
coal	631	638				
sand	770	905				
sand	915	975			925'	
sand	1010	1045				
sand	1055	1160				
sand	1670	1705				
sand	1754	1870			1777	
sand	1900	1980				
sand	2080	2115				
sand	2320	2340				
sand	2395	2407	2397'			
sand	2432	2457				

Total Depth 2511' (Over)

003-00730

WELL NO 454	LESSOR Spangler, David	LEASE NO 10385	ACRES .4	MAP Gch 13 NW	ELEVATION	B L DIV G	DIST. PUCKERTY										
W/O OR DIST	FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT	FORMATIONS	TOP	BOTTOM	GAS AT	OIL AT	WATER AT	CLASSIFICATION				
COUNTY - <i>W. Va.</i>	WAYNESBURG COAL	315	317				10' SAND	1900	1980				CASING AND TUBING DATA				
LOCATED	MAPLETOWN						2" SAND (DUNHAM)	2080	2115				SIZE	PUT IN	DATE	PULLED	DATE
W/O NO 1602	REDSTONE						3" SNEE SAND (BLUE MON.)						13"				
DATE 2-7-17	PITTSBURGH						4" SNEE STRAY SAND	2320	2340				10"	190	8-17-17		
CONTRACTOR G.M. Evans	MURPHY SAND						5" GORDON SAND (THIRD)						8 3/4"	907	"		
PER FT	AMES LIMESTONE						6" 4TH						8 3/4"	2022	"		
COMMENCED 5-30-17	BAKERSTOWN COAL						7" 5TH (MCDONALD)	2395	2407	2397			6 1/2"				
COMPLETED 8-17-17	L DUNKARD SAND						8" 6TH						5 1/2"				
PURCHASED FROM	B DUNKARD SAND	500	522				9" BAYARD (SIXTH)						4"				
DATE PURCHASED	UPPER FREEPORT COAL	540	619				10" BAYARD STRAY SAND	2432	2457				3"	357	"	357	3-43
OUTSIDE SER AL NO	L	631	638				11" STR SD						2"	2154	"	2154	"
SO.D TO	U KITT						12" ELIZABETH SAND										
DATE SOLD	M						13" 1ST WARREN SAND										
DATE ABANDONED	L						14" 2ND										
DATE PLUGGED	VAMPORT LIME						15" SPEECH STRAY SAND										
ANNUAL ROYALTY \$100 DUE	CLARION COAL						16" SPEECHLEY SAND										
WORKMEN S COMP NOTICE POSTED	BROOKVILLE COAL						17" TIONA SAND										
DRILLER S LOG IN FILE	1ST GNS-SAND	790	905				18" 1ST BALLTOWN SAND										
COAL DATA	MERCER COAL						19" 2ND										
OWNER	1ST SALT SAND						20" SHEFFIELD										
ADDRESS	2ND	915	975			925	21" 1ST BRADFORD (BENSON)										
DATE NOTIFIED LOCATION	JRD						22" 2ND										
DATE APPROVED	MAXON	1010	1045				23" BRD										
DEPARTMENT OF MINES DATA	LITTLE LIME																
DRL G PERMIT NO	PENCIL CAVE																
DATE	BIG LIME (KEENER)																
DRL G DPR PERMIT NO	BIG INJUN SAND	70	1055	1460													
PLUGGING PERMIT NO	2ND GAS		1670	1705													
FREE GAS DATA	MURRYSVILLE SAND (BEREA)	1754	1870			1777											
ANNUAL ALLOWANCE	TOTAL DEPTH																
CONSUMER W.L. BAUMON	TOTAL DEPTH																
ADDRESS W.R. COOPER	TOTAL DEPTH																
MURRYSVILLE Pa 15146	TOTAL DEPTH																

OPEN FLOW VOLUME & PRESSURE DATA														PIPE LINE DATA											
DATE	READING	LIQUID	SIZE	MINUTES											24 HR. 30 DAY	VOLUME	PRODUCING SAND	C/O NO	DATE LAID	DATE RCL D	SIZE	FEET LAID	FEET RCL D	REMARKS	
8-17-17			2	44	67	81	112	132										611	11-8-17		2	1000			
														DATE TURNED IN LINE 8-18-17						DATE DISCONNECTED					
														VOLUME FACTOR DATA											
														PREVIOUS TO 3 0.43 2" = 7679											
														TO 6-1-51 = 6111 = 2160											

REPAIR AND DRILLING DEEPER										SHOOTING RECORD									
W/O-M/O NO	DATE	REASON	COMMENCED	COMPLETED	C/O OR D/O	VOLUME		ROCK PRESS		DATE	AMT	DEPTH	VOLUME						
						BEFORE	AFTER	BEFORE	AFTER				BEFORE	AFTER					
		B.D.	FL 1970	5-22-74	2116	2,105	6,75			12343	4014	147	147	55					
			FL 1835	11-3-75	8210	0	0												
			FL 180 gal	9-7-76	62108	0	0												
			FL 1982	1-22-64	2414	115	13												
			FL 2379	9-14-65	2379	10	10												
			FL 2360	11-6-17	2360	115	115												
			DRY 231	11-7-73	231	99	99												
										DAILY VOLUME FACTOR 51,788									

003-00730
 466-00730
 MURPHY SAND
 5400' 5" 10" 27' 30"
 10700' 10" 9" 1900' 2' 30"
 11116'
 1142'
 RUM D.