



1) Date: April 28, 19 83
 2) Operator's Marks #1
 Well No. _____
 3) API Well No. 47 085 6425
 State County Permit

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil X / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 919' Watershed: Left Fork of MacFarlan Creek
 District: Murphy County: Ritchie Quadrangle: MacFarlan
- 6) WELL OPERATOR G.&S. Drilling Co. 11) DESIGNATED AGENT Durl Fluharty
 Address 415 Fort St. Address 425 South Spring St.
Marietta, Ohio Harrisville, W.V.
- 7) OIL & GAS ROYALTY OWNER Perry J. & Fena Hanlon et. al. 12) COAL OPERATOR _____
 Address 313 Raymond Ave. Address _____
Pennsboro, W.V. 26415
 Acreage 12
- 8) SURFACE OWNER Robert J. Marks 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 13008 Oakview Blv. Name _____
Garfield Hts., Ohio 44175 Address _____
 Acreage 12 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO: Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samual N. Hersman Address _____
 Address P.O. Box 66
Smithville, W.V. 26178
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 17) Estimated depth of completed well, 5995' feet
- 18) Approximate water strata depths: Fresh, 800' feet; salt, 580' feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

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APR 29 1983

OIL & GAS DIVISION
DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4						150'	CTS	Kinds <u>NEAT</u>
Fresh water									
Coal									Sizes
Intermediate	8 5/8					1000'		CTS	<u>NEAT</u>
Production									Depths set
Tubing	4 1/2						5995'	500 SKS	<u>ORMS REG. BY</u>
Liners									Perforations: <u>Rule 15-01</u>
									Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Bruce E. Doak
 My Commission Expires June 3, 1991

Signed: John S. Grim Partner
 Its: G.&S. Drilling Co.

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-085-6425

May 2 08/18/2023 83
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires January 2, 1984

unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>261</u>
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Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ of the coal under this permit has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____


By _____


Its _____

08/18/2023

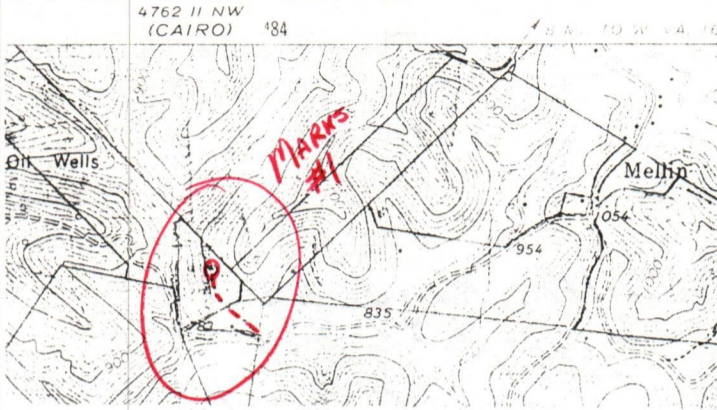
ATTACH OR PHOTOCOPIY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE MacFarlan 7.5'

LEGEND

Well Site 












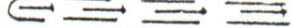
Access Road 

REPRESENTED BY THE WEST VIRGINIA GEOLOGICAL SURVEY AND OTHER STATE AGENCIES

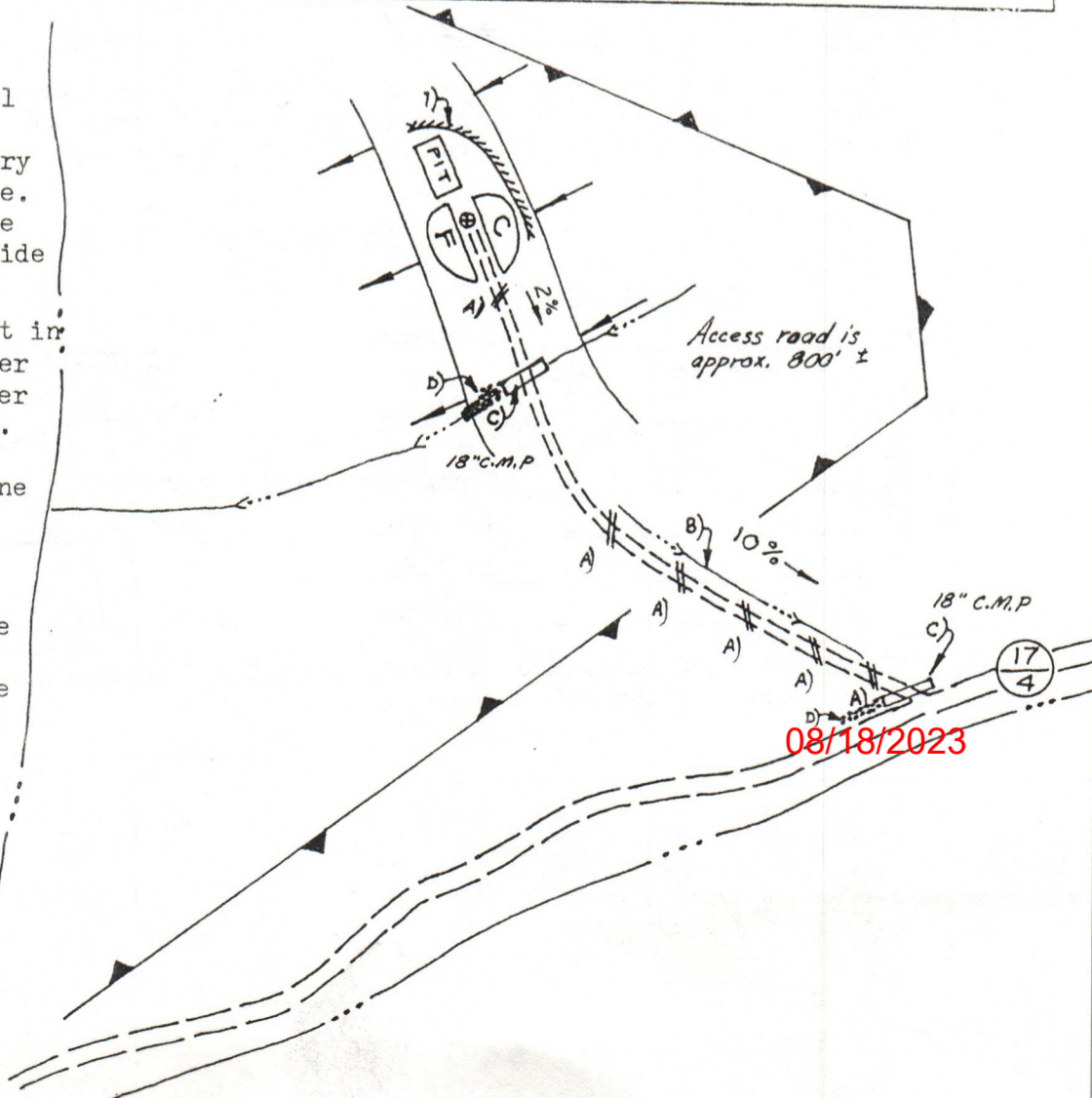


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

- 1) All trees 8" or larger will be cut and stacked. All others and brush will be cut and burned. Grading will be necessary to complete the well site. A Diversion Ditch will be constructed on the N-E side of the site.
- 2) Cross Drains will be cut in access road every 250' per 2% slope and every 80' per 10% slope. Two 18" C.M.P. culverts will be laid as shown in the sketch. Stone Riprap will be scattered at the lower end of each culvert.
- 3) A Drainage Ditch will be cut along the north edge of the access road on the steeper sloped part to allow water run-off from the hill above.
- 4) The county road will be maintained for future use of access well road.





IV-9
(Rev 8-81)

DATE April 28, 1983

WELL NO. Marks #1

State of West Virginia API NO. 47 - 085 - 6425

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME G.&S. Drilling Co.
Address 415 Fort St. Marietta, Ohio
Telephone 1-614-373-2453

DESIGNATED AGENT Durl Fluharty
Address 425 South Spring St. Harrisville,
Telephone _____ W.V.

LANDOWNER Robert J. Marks
Revegetation to be carried out by _____

SOIL CONS. DISTRICT Little Kanawha
(Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: _____

4-29-83
(Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD	
Structure <u>Cross Drains</u> (A)	
Spacing <u>250' per 2% - 80' per 10%</u>	
Page Ref. Manual <u>2-4</u>	
Structure <u>Drainage Ditch</u> (B)	
Spacing <u>- SEE COMMENTS -</u>	
Page Ref. Manual <u>2-15 2-12</u>	
Structure <u>Culvert</u> (C)	
Spacing <u>- SEE COMMENTS -</u>	
Page Ref. Manual <u>2-8 & 2-7</u>	

LOCATION	
Structure <u>Diversion Ditch</u> (1)	
Material <u>Soil</u>	
Page Ref. Manual <u>2-12</u>	
Structure _____ (2)	
Material _____	
Page Ref. Manual _____	
Structure <u>Riprap</u> (D)	
Material <u>Stone</u>	
Page Ref. Manual <u>2-9</u>	

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I	
Lime _____ Tons/acre	
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u> lbs/acre	
(10-20-20 or equivalent)	
Mulch HAY <u>1.5</u> Tons/acre	
Seed* <u>Ky. 31</u> <u>40</u> lbs/acre	
<u>REDTOP</u> <u>6</u> lbs/acre	
<u>LADINO CLOVER</u> <u>3</u> lbs/acre	

Treatment Area II	
Lime _____ Tons/acre	
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u> lbs/acre	
(10-20-20 or equivalent)	
Mulch HAY <u>1.5</u> Tons/acre	
Seed* <u>Ky. 31</u> <u>40</u> lbs/acre	
<u>REDTOP</u> <u>6</u> lbs/acre	
<u>LADINO CLOVER</u> <u>3</u> lbs/acre	

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Bruce E. Doak 08/18/2023

ADDRESS 293 Ash Circle
Davisville, W.Va. 26142

PHONE NO. (304) 485-4633

NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

STATE OF WEST VIRGINIA
REPRESENTED BY THE
STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
AND OTHER STATE AGENCIES

12'30"

483

4762 11 NW
(CAL/RO) 484

S. 1/2 TO W. VA. 16 10'

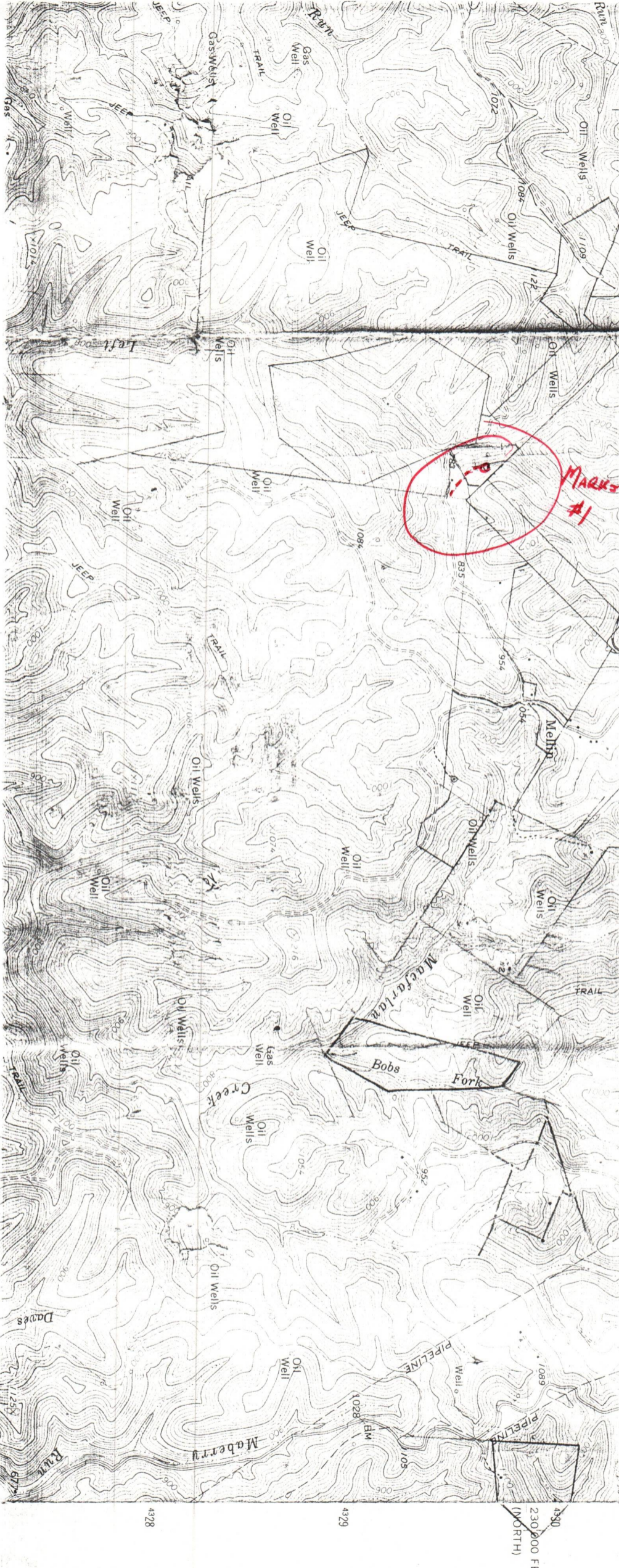
486

1 530 000 FEET (NORTH)

488

MACFARLAN QUAD
WEST VIRGINIA
7.5 MINUTE SERIES (TOPO)
SW/4 HARRISVILLE 15' QUADRANT

08/18/2023



DESCRIPTION OF 12 AC

~~47226~~
 BEGINNING at a post, corner to garden, standing
 on the north bank of Mac Farlan Run, thence south 20° 1
 east 20 poles to an elm; thence south 3° east 2
 17 1/2 poles to a black oak, thence south 5 1/2° west 3
 14 1/2 poles to a beech, corner to land owned by the
 Bickerstaff heirs; thence south 6 1/2° east 3 1/4 4
 poles to a sugar tree; thence north 68 1/2° east 40 1/2 5
 poles to a stake and pointers; thence north 10° 6
 east 15 poles to a stake; thence north 43 1/2° 7
 west 74 poles to a stake; thence south 60° 8
 west 4 poles to the place of beg. 12 acres more or less

Begin at a stake & pointers, thence with
 a line of the Lockhart land N 43 1/2° W 178 1/2 p to a 1
 dogwood in said line thence N 43 1/2° W 11 1/4 p to a
 stake making 190 p on the Lockhart line, thence N 45° W
 40 poles to a stake in the hatched line thence w/ the same
 S 43 1/2° E 111 p to a White Oak, thence S 30° W 8 poles to a stake 5
 and pointers in a line made for L. Nutter, thence w/
 S of his lines S 78° E 35 p to a beech tree thence 6
 S 34° E 34 poles to a Sugar tree, thence N 68 1/2° E 40 1/2 p 8
 to a stake in N. Beals line, thence N 10° E 15 p to 9
 the beg. containing 51 acres.

51 ac. 160 @ 338
 22 @ 558
 26 @ 408
 33 @ 49
 37 @ 461
 12 ac 44 @ 506
 80 @ 76

DB 33 @ 49

37 @ 461

North Jordan



DATE: April 28, 1983
OPERATOR'S
WELL NO.: Marks #1
API NO: 47 085
State County Permit

State of West Virginia

OFFICE OF OIL AND GAS
DEPARTMENT OF MINES

A F F I D A V I T

State of West Virginia

County of Ritchie

I, John S. Grim (Partner) (the designated owner or operator, or authorized representative thereof), after being duly sworn, do depose and say that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached do state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-4-11(c) (1982).

Signed: John S. Grim

Taken, Subscribed, and sworn to before me this 27 day of April, 1983.

Notary: Bruce E. Doak
Bruce E. Doak

My Commission Expires: June 3, 1991

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APR 29 1983
OIL & GAS DIVISION
DEPT. OF MINES

08/18/2023

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated 3737-3747, 40 shots, stress fraced, 1st Stage
 3499-3596, 13 shots, 2nd Stage

Fraced 800.000 SCF Nitrogen gas 1st Stage
 800,000 SCF Nitrogen gas 2nd Stage

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Permian			Surface	500	
Sands/Shales					
Pennsylvanian			500	1680	
Sands/Shales					
Mauch Chunk Formation			1680	1770	
Maxon Sandstone			1640	1770	
Shale			1771	1778	
Greenbrier Formation			1779	1874	
Big Lime			1779	1894	
Keener			1875	1894	
Pocono Formation			1895	2329	
Big Injun			1895	1968	
Shale			1969	2114	
Weir Sand			2115	2198	
Shale			2199	2328	
Berea Sand			2328	2329	
Hampshire Formation			2330	2800	
Shale			2330	2434	
Gantz Sand			2435	2450	
Shale			2451	2620	
Gordon Sand			2621	2642	
Shale			2643	2717	
Fifth Sand			2718	2728	
Shale			2729	2800	
Chemung Formation			2800	4728	
Shale			2801	3040	
Warren Interval			3041	3086	
Shale			3087	3549	
Speechley			3550	3599	
Shale			3600	3784	
Balltown			3785	3820	
Shale			3721	4318	
Riley			4319	4399	
Shale			4400	4728	
TD			4728		

(Attach separate sheets as necessary)

G & S DRILLING CO
Well Operator

By: [Signature] 08/18/2023

Date: July 3, 1985

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR G & S Drilling
Address P.O. box 122
Bedford Pa 15522

DESIGNATED AGENT Durl Fluharty
Address 425 S. Spring Street
Harrisville, WVa

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 4728 feet
Perforation Interval 3737-3747 feet
3499-3596 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 51.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA			
START OF TEST-DATE <u>6/20/83</u>	TIME <u>9:00am</u>	END OF TEST-DATE <u>6/21/83</u>	TIME <u>9:00am</u>
DURATION OF TEST <u>24 hrs</u>			
TUBING PRESSURE <u>N/A</u>	CASING PRESSURE <u>50#</u>	SEPARATOR PRESSURE <u>30#</u>	SEPARATOR TEMPERATURE
OIL PRODUCTION DURING TEST <u>2</u> bbls.	GAS PRODUCTION DURING TEST <u>40</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>0</u> bbls. ppm.	
OIL GRAVITY <u>57</u> °API	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Flowing</u>		
GAS PRODUCTION			
MEASUREMENT METHOD: FLANGE TAP <input checked="" type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>		POSITIVE CHOKE CRITICAL FLOW PROVER <input type="checkbox"/>	
ORIFICE DIAMETER <u>1/2"</u>	PIPE DIAMETER (INSIDE DIAM.) <u>4-1/2"</u>	NOMINAL CHOKE SIZE - IN.	
DIFFERENTIAL PRESSURE RANGE <u>8"-10"</u>	MAX. STATIC PRESSURE RANGE <u>40-60</u>	PROVER & ORIFICE DIAM. - IN.	
DIFFERENTIAL <u>9"</u>	STATIC <u>50</u>	GAS GRAVITY (AIR-1.0) MEASURED ESTIMATED <input checked="" type="checkbox"/>	
GAS GRAVITY (AIR-1.0) <u>0.762</u>	FLOWING TEMPERATURE	GAS TEMPERATURE °F	
24 HOUR COEFFICIENT.		24 HOUR COEFFICIENT	
PRESSURE - psia			
TEST RESULTS			
DAILY OIL <u>2</u> bbls.	DAILY WATER <u>0</u> bbls.	DAILY GAS <u>40</u> Mcf.	GAS-OIL RATIO <u>20,000</u> SCF/STB

G & S Drilling Co.

Well Operator

By: [Signature]

Its: PARTNER

08/18/2023

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MAY 6 - 1983

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6425

Oil or Gas Well _____
(KIND)

Company H + S Drilling Co.

Address _____

Farm Robert J. Marks

Well No. Marks #1

District Murphy County Petchie

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Visit - Clearing trees + Brush starting road to Location

5-3-83
DATE

Samuel N. [Signature]
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6425

Oil or Gas Well _____
(KIND)

Company G + S. Drilling Co.

Address _____

Farm Robert J. Marks

Well No. Marks #1

District Murphy County Ritchie

Drilling commenced 5-7-83

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water 85' feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Darrell Bradley / Charles Rush /

Remarks: W. H. Putnam Rig # 2 toal Packer Larry Fluharty
Ran 1287 foot of 8 5/8 casing. Newsco ran 285 sacks cement.
cement or Gel did not circulate. Cement + Gel mix came back up to water
zone at 85' and ran through crevice and out of side of hill below Rig.
Dirt and fill was shoveled in hole and 20 sacks cement put in from top.
to put red clay mud around casing to seal to surface later. Cement job O.K.

5-9-83
DATE

Samuel T. ...
08/18/2023
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

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 OCT 28 1983

OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 47-085-6425 (5-02-83) County Ritchie
 Company H+S Drilling Co. Farm Robert J. Marks
 Inspector Samuel Hersman Well No. Marks #1
 Date 10-25-83

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to prevent waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.03	Reclaimed Drilling Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No surface or underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.03	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMENTS: _____

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Samuel N. Hersman
 DATE: 10-25-83

08/18/2023

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 085 - 6425 -				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	- Category Code	RECEIVED JUL 8 1985		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3596 feet		OIL & GAS DIV. DEPT. OF MINES		
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name: <u>G & S Drilling Co.</u> Seller Code _____ Street: <u>P.O. Box 122</u> City: <u>Bedford</u> State: <u>Pa</u> Zip Code: <u>15522</u>				
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name: <u>Mellon Ridge</u> County: <u>Ritchie</u> State: <u>W. Va.</u>				
(b) For OCS wells:	Area Name: _____ Block Number: _____ Date of Lease: _____ Mo. Day Yr. OCS Lease Number: _____				
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Marks #1</u>				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>Devonian Shale</u>				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>No Contract</u>				
(b) Date of the contract:	Mo. Day Yr. _____				
(c) Estimated total annual production from the well:	<u>14.4</u> Million Cubic Feet				
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	(a) Base Price _____	(b) Tax _____	(c) All Other Prices [Indicate (+) or (-).] _____	(d) Total of (a), (b) and (c) _____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>3.004</u>	_____	_____	<u>3.004</u>
9.0 Person responsible for this application:	Name: <u>RICHARD F. SHIMER</u> Title: <u>PARTNER</u> Signature: <u>[Signature]</u> Date Application is Completed: <u>7/2/85</u> Phone Number: <u>614 373-2453</u>				

FERC-121 (8-82)

08/18/2023

JUL 30 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: June 29, 1985

18550

AGENCY USE ONLY

Applicant's Name: G & S Drilling Co.

WELL DETERMINATION FILE NUMBER

Address: P.O. Box 122

850708 -1030-085-6425

Bedford, Pa 15522

Use Above File Number on all
Communications Relating to This Well

Gas Purchaser Contract No. No Contract

Date of Contract _____
(Month, day and year)

First Purchaser: P 629

Designated Agent: Durl Fluharty

Address: _____
(Street or P.O. Box)

Address: 425 S. Spring St.

(City) (State) (Zip Code)

Harrisville, WVa

FERC Seller Code _____

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL
BE ADDRESSED:

Name: Richard Shimer

Signature: (Print) [Signature]

PARTNER
(Title)

Address: 415 Fort St.
(Street or P.O. Box)

Marrietta Ohio 45750
(City) (State) (Zip Code)

Telephone: (614) 373-2453
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas

- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

108 Stripper Well Natural Gas

- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildu

103 New Onshore Production Well

XX 103 New Onshore Production Well

107 High Cost Natural Gas

- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

08/18/2023

RECEIVED

JUL - 8 1985

OIL & GAS DIV.
DEPT. OF MINES

Date Received _____

Determination Date _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date June 29, 1985

Operator's Well No. Marks #1

API Well No. 47 - 085 - 6425
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Durl Fluharty

ADDRESS 425 S. Spring St.
Harrisville, WV

LOCATION: Elevation 919'

Watershed Left Fork MacFarlan Creek

Dist. Murphy County Ritchie Quad. MacFarlan

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

WELL OPERATOR G & S Drilling Co.

ADDRESS P.O. Box 122

Bedford Pa 15522

GAS PURCHASER No Contract

ADDRESS _____

* * * * *

Date surface drilling was begun: 5/6/83

Indicate the bottom hole pressure of the well and explain how this was calculated:

P=500 L=3623'
e=2.7813 T=551.23 R*
G=0.762

BHP=500+500(e(G/L/53.34xT)-1)
BHP=500+500(1.1325-1)
BHP=500+66.25
BHP=566.25psi

AFFIDAVIT

I, RICHARD F. SHIMER, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

STATE OF WEST VIRGINIA, OHIO

COUNTY OF WASHINGTON, TO WIT:

J. Sheila Dowled Notary Public in and for the state and county aforesaid,

do certify that Richard Shimer whose name is signed to the writing above, bearing date the 3rd day of July, 1985, has acknowledged the same before me, in my county aforesaid.

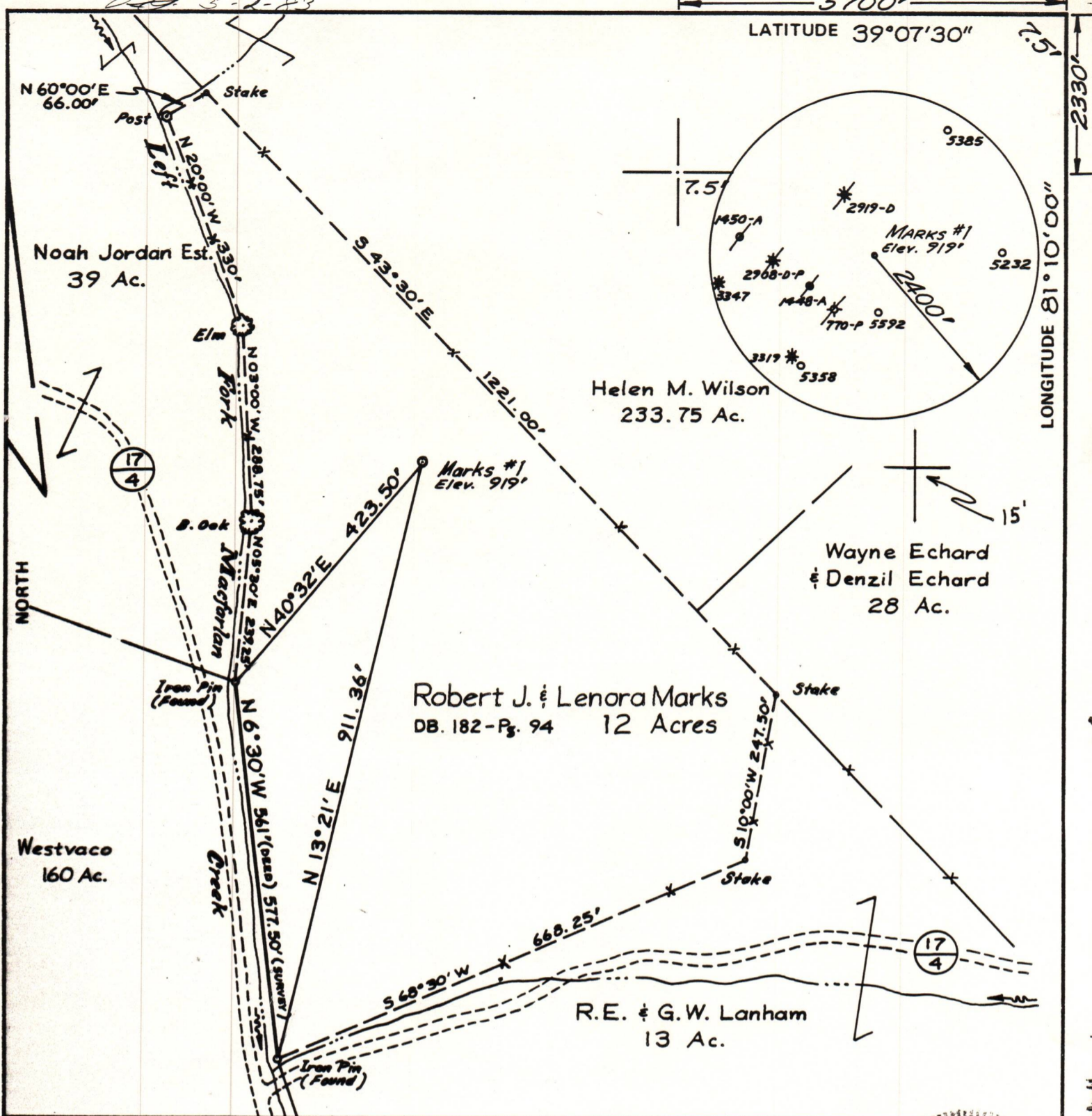
Given under my hand and official seal this 3rd day of July, 1985.

My term of office expires on the 30 day of March, 1988.

[NOTARIAL SEAL]

Sheila Jean Dowled
Notary Public

08/18/2023



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION 783'
Road Intersection

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Paul K. Marshall
 R.P.E. _____ L.L.S. 580



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE APRIL 28, 19 83
 OPERATOR'S WELL NO. MARKS #1
 API WELL NO. 47 - 085 - 6425
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 919' WATER SHED LEFT FORK MACFARLAN CREEK
 DISTRICT MURPHY COUNTY RITCHIE
 QUADRANGLE MACFARLAN (7.5')
 SURFACE OWNER ROBERT & LENORA MARKS ACREAGE 12
 OIL & GAS ROYALTY OWNER PERRY J. + FENA HANLON et al. LEASE ACREAGE 12
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5995'
 WELL OPERATOR G & S DRILLING CO. DESIGNATED AGENT DURL FLUHARTY
 ADDRESS 415 FORT ST. MARIETTA, OHIO ADDRESS 425 SOUTH SPRING ST. HARRISVILLE, W. VA.

08/18/2023