



1) Date: May 25, 19 83
 2) Operator's Well No. BR-116
 3) API Well No. 47 039 3971
 State County Permit

DRILLING CONTRACTOR:

Southeastern Gas Co.

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

P.O. Box 2347, Charleston, WV

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil X / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 845.30' Watershed: Bradford Hollow of Kanawha River
 District: Loudon County: Kanawha Quadrangle: Belle 7.5'
- 6) WELL OPERATOR Southeastern Gas Co. 11) DESIGNATED AGENT J. C. Lining
 Address P.O. Box 2347, 1319 Quarrier St. Address P.O. Box 2347, 1319 Quarrier St.
Charleston, WV 25328 Charleston, WV 25328
- 7) OIL & GAS ROYALTY OWNER Joseph Orlandi 12) COAL OPERATOR N/A
 Address 4109 Kanawha Ave., SE Address _____
Charleston, WV 25304
- 8) SURFACE OWNER Joseph Orlandi 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 4109 Kanawha Ave., SE Name Joseph Orlandi
Charleston, WV 25304 Address 4109 Kanawha Ave., SE
Charleston, WV 25304
- 9) FIELD SALE (IF MADE) TO: Name _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Craig Duckworth Address _____
P.O. Box 107
Gassaway, WV 26624
- 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, Big Line
- 17) Estimated depth of completed well, 1,500 feet
- 18) Approximate water strata depths: Fresh, 550 feet; salt, 715 feet.
- 19) Approximate coal seam depths: 560' Is coal being mined in the area? Yes X / No _____

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JUN -7 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	10-3/4	N/A	32.0		X	20'	20'	To Surface	Kinds N/A
Fresh water									
Coal	8-5/8	H-40	20.0		X	590'	590'	To Surface	Sizes <u>by Rule 15.05</u>
Intermediate	7	N/A	20.0		X	1170'	580'	580'	
Production	5-1/2	N/A	14.0		X	1500'	1500'	330'	Depths set <u>as per</u> <u>by Rule 15.01</u>
Tubing									
Liners									Perforations: 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: Robert H. Alley Signed: J. C. Lining
 My Commission Expires May 24, 1993 Its: Vice President

OFFICE USE ONLY

Permit number 47-039-3971 DRILLING PERMIT Date June 28 12/29/2023 83

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 February 28, 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>2427</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 well location 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.

12/29/2023

Date: _____, 19_____

By _____

Its _____

MAY 31 1983



IV-9
(Rev 8-81)

DATE May 27, 1983

WELL NO. BR-116

State of West Virginia API NO. 47 - 039 - 3971

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Southeastern Gas Company
Address P.O. Box 2347, Charleston, WV
Telephone (304) 343-9566

DESIGNATED AGENT J. C. Liming
Address P.O. Box 2347, Charleston, WV
Telephone (304) 343-9566

LANDOWNER Joseph Orlandi

SOIL CONS. DISTRICT Capitol

Revegetation to be carried out by Southeastern Gas Company (Agent)

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

JUN. 6 1983
(Date)
R. C. Alford
(SCD Agent)

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JUN - 7 1983

ACCESS ROAD

LOCATION

Structure Temporary Road Crossing (A)
Spacing N/A
Page Ref. Manual 2-20, 2-21, 2-22, 2-8

Structure Diversion Ditch (1)
Material Soil
Page Ref. Manual 2-12, 2-13

Structure Sediment Barrier (B)
Spacing N/A
Page Ref. Manual 2-16, 2-18

Structure Pit (2)
Material Soil
Page Ref. Manual N/A

Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Structure Sediment Barrier (3)
Material Hay or Straw Bales
Page Ref. Manual 2-16, 2-18

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

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acre
Seed* Ky. 31 Tall Fescue 50 lbs/acre
_____ lbs/acre
_____ lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acre
Seed* Ky. 31 Tall Fescue 50 lbs/acre
_____ lbs/acre
_____ lbs/acre

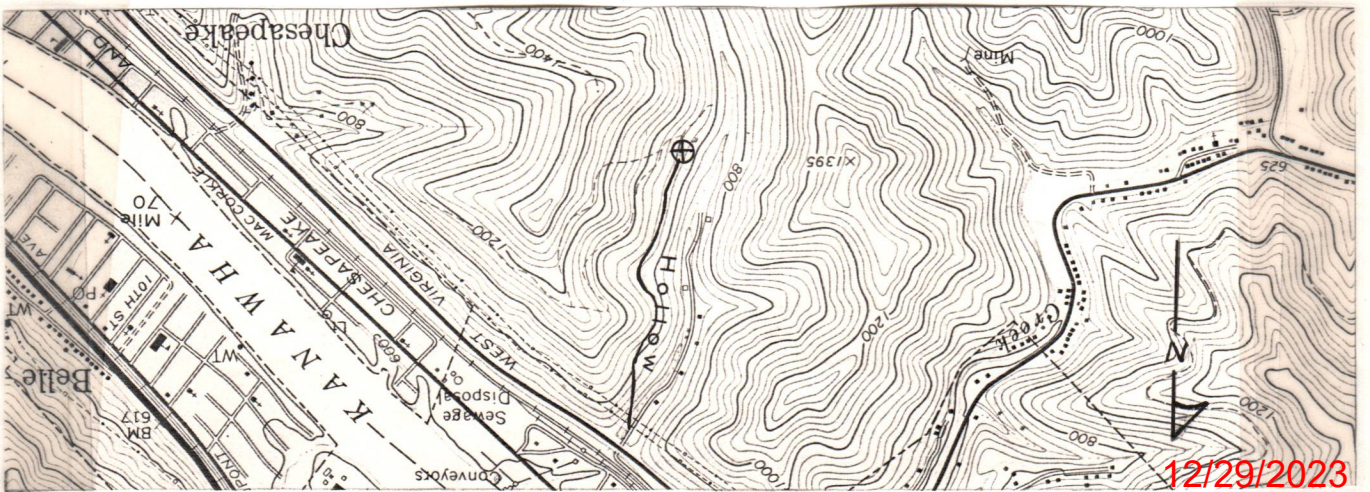
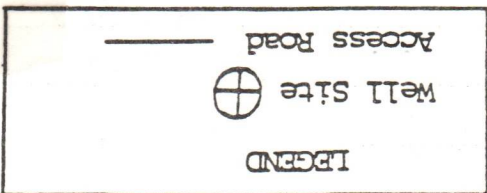
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Robert Alley 12/29/2023

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

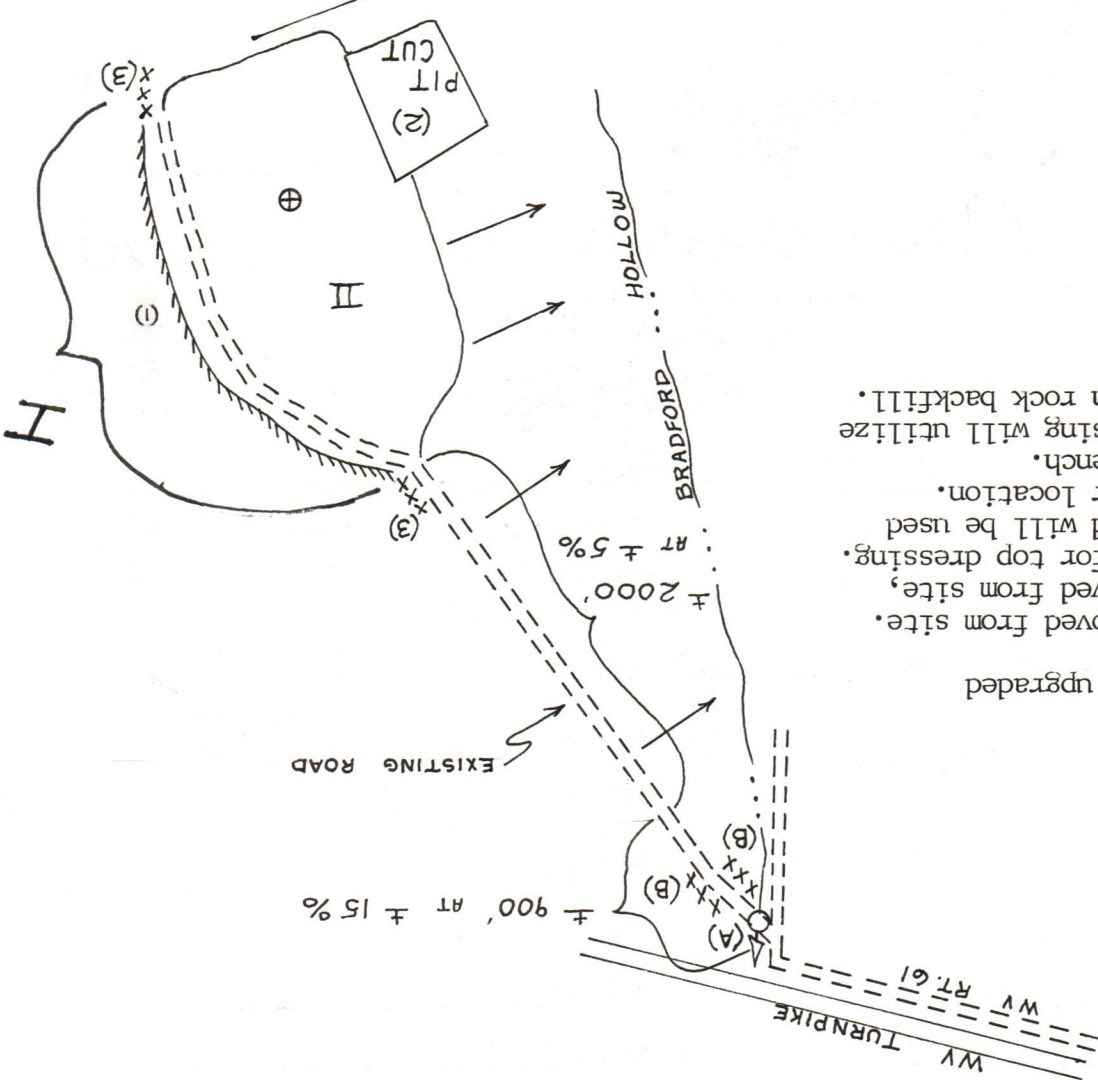
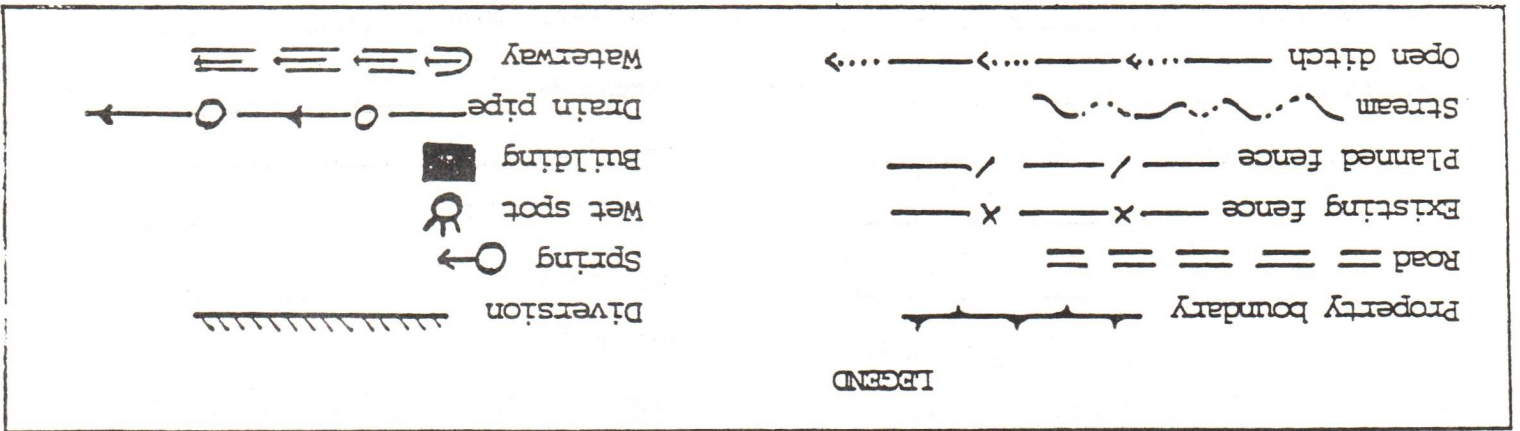
ADDRESS Southeastern Gas Company
P.O. Box 2347
Charleston, West Virginia 25328
PHONE NO. (304) 343-9566

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Belle 7.5'



WELL SITE PLAN

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



- Note:
1. Existing road will be upgraded as necessary.
 2. All brush will be removed from site. Top soil will be removed from site, stockpiled, and used for top dressing.
 3. Ditch of existing road will be used as diversion ditch for location.
 4. Location and pit on bench. Temporary stream crossing will utilize 3-20" steel pipes with rock backfill.

June 6, 1983

Southeastern Gas Company

Well Number: BR-116

EXTRACTION RIGHTS

Section 21) on Oil & Gas Well Permit Application (Code 22-4-11(c))

- (1.) A tract of land situated near the waters of Lens Creek, in Loudon District, Kanawha County containing 77 ± acres.
- (2.) Elizabeth Bradford, Ashton Price, D. K. Flynn, Mary Bledsoe, and Robert Bradford leased the oil and gas rights to Ira G. Sayre.
- (3.) Recorded in Lease Book 39, page 577.
- (4.) The lessee agreed to pay to the lessor 1/8 of the gross receipts from sale of gas and/or oil.

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JUN -7 1983

OIL & GAS DIVISION
DEPT. OF MINES

12/29/2023

Line Item Explanation

99

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- 2) Your well name and number
- 3) To be filled out by office of oil & gas
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- 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
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- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
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 - (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;
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- 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 well location 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.

12/29/2023

Date: 5-6, 19 83

By Joseph Orlando
Its Owner



1) Date: May 25, 1983
 2) Operator's Well No. BR-116
 3) API Well No. 47 State West Virginia County Kanawha Permit 039 3971

DRILLING CONTRACTOR:

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

Southeastern Gas Co.
P.O. Box 2347, Charleston, WV

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil X / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 845.30' Watershed: Bradford Hollow of Kanawha River
 District: Louisa County: Kanawha Quadrangle: Belle 7.5'
- 6) WELL OPERATOR Southeastern Gas Co. 11) DESIGNATED AGENT J. C. Lining
 Address P.O. Box 2347, 1319 Quarrier St. Address P.O. Box 2347, 1319 Quarrier St.
Charleston, WV 25328 Charleston, WV 25328
- 7) OIL & GAS ROYALTY OWNER Joseph Orlandi 12) COAL OPERATOR N/A
 Address 4109 Kanawha Ave., SE Address _____
Charleston, WV 25304
- 8) SURFACE OWNER Joseph Orlandi 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 4109 Kanawha Ave., SE Name Joseph Orlandi
Charleston, WV 25304 Address 4109 Kanawha Ave., SE
Charleston, WV 25304 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Craig McGowan Name N/A
 Address P.O. Box 107 Address _____
Cassaway, WV 25824
- 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, Big Linn
 17) Estimated depth of completed well, 1,500 feet
 18) Approximate water strata depths: Fresh, 350 feet; salt, 715 feet.
 19) Approximate coal seam depths: 560' Is coal being mined in the area? Yes _____ / No X _____

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		Kinds	Depths set
Conductor	<u>10-3/4</u>	<u>N/A</u>	<u>32.0</u>		<u>X</u>	<u>201'</u>	<u>201'</u>	<u>To Surface</u>	<u>N/A</u>	
Fresh water										
Coal	<u>3-5/8</u>	<u>N/A</u>	<u>30.0</u>		<u>X</u>	<u>590'</u>	<u>590'</u>	<u>To Surface</u>	<u>Sizes</u>	
Intermediate	<u>7</u>	<u>N/A</u>	<u>20.0</u>		<u>X</u>	<u>1170'</u>	<u>590'</u>	<u>590'</u>		
Production	<u>5-1/2</u>	<u>N/A</u>	<u>14.0</u>		<u>X</u>	<u>1500'</u>	<u>1500'</u>	<u>590'</u>	<u>Depths set</u>	
Tubing										
Liners									Perforations:	
									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: _____
 My Commission Expires May 24, 1993

Signed: _____
 Its: Vice President

OFFICE USE ONLY
DRILLING PERMIT

Permit number _____

Date 12/29/2023

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

Bond: _____	Agent: _____	Plat: _____	Casing _____	Fee _____
-------------	--------------	-------------	--------------	-----------

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

CAPITOL SOIL CONSERVATION DISTRICT

DATE: JUNE 6, 1983

1422 Federal Building
500 Quarrier St.
Charleston, WV 25301

WELL SITE: BR-116
SOUTHEASTERN GAS COMPANY
P. O. BOX 2347, CHARLESTON, WV25328
ROBERT ALLEY - 343-9566

QUADRANGLE: BELLE

LANDOWNER: JOSEPH ORLANDI

PLAN PREPARED BY: Robert Alley, Southeastern Gas Company

PLAN RECEIVED BY CAPITOL SCD ON: MAY 31, 1983, delivered to Capitol SCD.

PLAN REVIEWED BY: Linda M. Cable, District Manager, Capitol SCD, on
JUNE 6, 1983.

RECLAMATION PLAN COMMENTS:

- (1) The recommended rate of lime is 3 tons per acre.
- (2) The recommended rate of fertilizer is 500 lbs. per acre.
- (3) The use of riprap at the ends of diversion ditch is recommended instead of Sediment Barriers.
- (4) TREATMENT AREA I was listed on the plan and not on the sketch. TREATMENT AREA I will refer to that section of the road bordering the well site. SEE SKETCH.
- (5) The existing road, traveled by your equipment in drilling and maintenance, shall be considered the same as the proposed access roads as far as your responsibilities are concerned; i.e.: installing proper cross drains, seeding dozed and eroded land, and installing drainage ditches as necessary. THIS IS ACCORDING TO THE WEST VIRGINIA EROSION & SEDIMENT CONTROL MANUAL.

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JUN -7 1983

OIL & GAS DIVISION
DEPT. OF MINES

R. C. Alford

NOTE: ALL COMMENTS SHOULD BE STUDIED SO THEY
WILL NOT BE REPEATED ON FUTURE PLANS.

R. C. ALFORD, CHAIRMAN
BOARD OF SUPERVISORS

cc: Office of Oil & Gas, WV Dept. of Mines

12/29/2023

SOUTHEASTERN GAS COMPANY
CUMBERLAND GAS COMPANY

GENERAL OFFICES
1319 QUARRIER STREET
CHARLESTON, WEST VIRGINIA 25301

MAILING ADDRESS:
P. O. BOX 2347
OR
P. O. BOX 2386
CHARLESTON, W. VA. 25328

TELEPHONE
304 343-9566

October 23, 1985

State of West Virginia
Department of Energy
Oil & Gas Division
1615 Washington St E
Charleston, WV 25305

Enclosed please find Well Operator's Report (IV-35) and
Initial Gas-Oil Ratio Test (WR-36) for three (3) wells.
Information is as follows:

Southeastern Gas Company:

Well No. P-88 -- API No. 47-011-0802

Cumberland Gas Company:

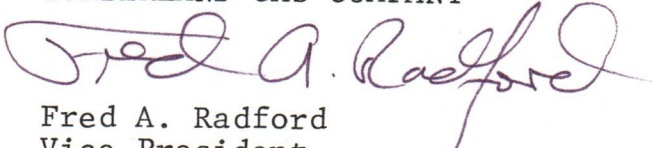
Well No. BR-116 - API No. 47-039-3971

Well No. BR-117 - API No. 47-039-3972

There has been a change in management for both Southeastern and Cumberland Gas Companies. I have become Vice President and Designated Agent for both companies just recently and the filings for the Cumberland Wells were just discovered in our files. Please accept my apologies for the delay in reporting these completions. If you have any questions or if further information is needed please feel free to call me.

Very truly yours,

SOUTHEASTERN GAS COMPANY
CUMBERLAND GAS COMPANY


Fred A. Radford
Vice President

12/29/2023



IV-35
(Rev 8-81)

RECEIVED
OCT 29 1985

**DIVISION OF OIL & GAS
DEPT. OF ENERGY**

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 18, 1985
Operator's
Well No. BR-116
Farm Joseph Orlandi
API No. 47 - 039 - 3971

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 845.30' Watershed Bradford Hollow of Kanawha River
District: Loudon County Kanawha Quadrangle Belle 7.5'

COMPANY Cumberland Gas Company

ADDRESS P O Box 2386, Chas., WV 25328

DESIGNATED AGENT Fred A. Radford

ADDRESS P O Box 2386, Chas., WV 25328

SURFACE OWNER Joseph Orlandi

ADDRESS 4109 Kanawha Ave. SE, Chas., WV 25304

MINERAL RIGHTS OWNER Joseph Orlandi

ADDRESS 4109 Kanawha Ave. SE, Chas., WV 25304

OIL AND GAS INSPECTOR FOR THIS WORK

Jerry Holcomb ADDRESS RR 1, Box 28 Hamlin, WV 25304

PERMIT ISSUED 6/28/83

DRILLING COMMENCED 9/15/83

DRILLING COMPLETED 11/5/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
10-3/4	20.0'	20.0'	--
8 5/8	586.0'	586.0'	To Surf.
7	1160.0'	1160.0'	50 sks.
5 1/2	1329.61'	1329.61'	Packer
4 1/2			
3			
2	1406.85'	1406.85'	--
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 1257-1418 feet

Depth of completed well 1418' feet Rotary / Cable Tools X

Water strata depth: Fresh 165 feet; Salt 719 feet

Coal seam depths: 54-58; 72-74; 271-279; 392-399; 490-492; 531-543 coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth 1351-1356 feet

Gas: Initial open flow Show Mcf/d Oil: Initial open flow 20 Bbl/d

Final open flow 12 Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 85 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

12/29/2023

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

Open hole treatment of 1329' to 1418' with 1000 gallons of 15% HCL Acid.

DEPT. OF ENERGY
DIVISION OF OIL & GAS

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand		Soft	0	54	
Coal	Black	Soft	54	58	
Slate	Grey	Soft	58	72	
Coal	Black	Soft	72	74	
Sand		Hard	74	130	
Slate	Grey	Soft	130	161	
Sand		Soft	161	199	HFW 165' (Fresh Water)
Slate	Grey	Soft	199	243	
Sand	Grey	Hard	243	271	
Coal	Black	Soft	271	279	
Shale	Red	Soft	279	280	
Sand	Grey	Hard	280	350	
Slate	Grey	Soft	350	392	
Coal	Black	Soft	392	399	
Sand	Red	Hard	399	402	
Sand	Grey	Hard	402	490	
Coal	Black	Soft	490	492	
Slate	Grey	Soft	492	496	
Sand	Grey	Hard	496	520	
Slate	Grey	Soft	520	531	
Coal	Black	Soft	531	543	
Slate	Grey	Soft	543	580	
Sand	Grey	Hard	580	620	
Broken Sd			620	700	
Salt Sd	White	Med.	700	852	HFW 719' (Salt Water)
S1 & Shs			852	874	
Red Rock	Red	Soft	874	884	
S1 & Shs	Grey	Hard	884	1002	
Sand	White	Hard	1002	1031	
Lime & Shs		Hard	1031	1068	
Sand		Hard	1068	1076	
Sand & S1		Hard	1076	1085	
Red Rock	Red	Soft	1085	1093	
Sand & Sh		Med.	1093	1102	
Slate			1102	1109	
Shell		Hard	1109	1124	
Red Rock	Red	Soft	1124	1150	
Maxton Sd	White	Hard	1150	1157	
Red Rock	Red	Soft	1157	1163	S/G 1160'

(Attach separate sheets as necessary)

Cont'd on Page 2

Cumberland Gas Company

Well Operator

By: W. A. Radford 12/29/2023

Date: October 18, 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."

SHEET NO. 2

Well Log Continued

Date: October 18, 1985
 Operator's Well No. BR-116
 Farm: Joseph Orlandi
 API No. 47-039-3971

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas.
Gritty Shell			1163	1185	
Slate			1185	1200	
Little Lime			1200	1255	
Pencil Cave			1255	1257	S/G 1351' to 1356'
Big Lime			1257	1418	S/G 1412'

Total Depth: 1418'

WELL OPERATOR: Cumberland Gas Company

12/29/2023

RECEIVED
OCT 29 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

Operator's Well No. BR-116
API Well No. 47 - 039 - 3971
State County Permit

DIVISION OF OIL & GAS
DEPT. OF ENERGY

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

WELL OPERATOR Cumberland Gas Company
Address P O Box 2386
Charleston, WV 25328

DESIGNATED AGENT Fred A Radford
Address P O Box 2386
Charleston, WV 25328

GEOLOGICAL TARGET FORMATION: Big Lime Depth 1418 feet
Perforation Interval Open Hole 1329-1418 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 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA			
START OF TEST-DATE <u>11-17-83</u>	TIME <u>9:00 am</u>	END OF TEST-DATE <u>11-18-83</u>	DURATION OF TEST <u>24 hours</u>
TUBING PRESSURE <u>N/A</u>	CASING PRESSURE <u>N/A</u>	SEPARATOR PRESSURE <u>N/A</u>	SEPARATOR TEMPERATURE <u>N/A</u>
OIL PRODUCTION DURING TEST <u>1</u> bbls.	GAS PRODUCTION DURING TEST <u>12</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>N/A</u> bbls. <u>psia</u>	
OIL GRAVITY <u>N/A</u>	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Pumping</u>		

GAS PRODUCTION		
MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>	Orifice Tester	POSITIVE CHOKE <input type="checkbox"/> CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER <u>N/A</u>	PIPE DIAMETER (INSIDE DIAM.) <u>N/A</u>	NOMINAL CHOKE SIZE - IN. <u>N/A</u>
DIFFERENTIAL PRESSURE RANGE <u>N/A</u>	MAX. STATIC PRESSURE RANGE <u>N/A</u>	PROVER & ORIFICE DIA. - IN. <u>N/A</u>
DIFFERENTIAL <u>N/A</u>	STATIC <u>N/A</u>	GAS GRAVITY (Air-1.0) MEASURED <u>N/A</u> ESTIMATED
GAS GRAVITY (Air-1.0) <u>N/A</u>	FLOWING TEMPERATURE <u>N/A</u>	GAS TEMPERATURE <u>N/A</u> °F
24 HOUR COEFFICIENT. <u>N/A</u>	24 HOUR COEFFICIENT <u>N/A</u>	
PRESSURE - <u>N/A</u> psia		

TEST RESULTS			
DAILY OIL <u>1</u> bbls.	DAILY WATER <u>0</u> bbls.	DAILY GAS <u>12</u> Mcf.	GAS-OIL RATIO <u>12</u> SCF/STB

CUMBERLAND GAS COMPANY

Well Operator

By: Fred A. Radford

Its: Vice President

12/29/2023

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OCT 5 0 382

DEPT. OF ENERGY
DIVISION OF OIL & GAS

Robert D. [unclear]

12/29/2023

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

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OCT - 5 1983

OIL & GAS DIVISION
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. D39-3941

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>SOUTHEASTERN GAS CO.</u>	Size			
<u>CHARLESTON, W. VA.</u>	16			Kind of Packer
<u>JOSEPH ORLANDI</u>	13			
<u>BR-116</u>	10			Size of
<u>LOUDON</u> County <u>KANAWHA</u>	8 1/4			
<u>9/13/83</u>	6 5/8			Depth set
_____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>8 5/8</u> SIZE <u>590</u> No. FT. <u>9/24</u> Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>HALLIBURTON</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names SOUTHEASTERN GAS 28 SPUDDER RIG 491

Remarks: RAN 590' OF 8 5/8 CEMENTED TO SURFACE WITH 115 SKS
RAN PIPE + CEMENTED DID NOT NOTIFY ME
867' AT 12:00

10/4/83
DATE

Craig Duckworth 505
DISTRICT INSPECTOR
12/29/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.
DATE 12/29/2023

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

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SEP 15 1983

INSPECTOR'S WELL REPORT

Permit No. 039-3971

OIL & GAS DIVISION
DEPT. OF MINES
(KIND)

Company <u>SOUTHEASTERN GAS CO.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>CHARLESTON, W. VA.</u>	Size			
Farm <u>JOSEPH ORLANDI</u>	16			Kind of Packer
Well No. <u>BR-116</u>	13			
District <u>LOUDON</u> County <u>KANAWHA</u>	10			Size of
Drilling commenced	8 1/4			
Drilling completed	6 3/8			Depth set
Date shot	5 3/16			
Initial open flow	3			Perf. top
Open flow after tubing	2			Perf. bottom
Volume	Liners Used			Perf. top
Rock pressure				Perf. bottom
Oil	CASING CEMENTED	SIZE	No. FT.	Date
Fresh water	NAME OF SERVICE COMPANY			
Salt water	COAL WAS ENCOUNTERED AT	FEET	INCHES	
		FEET	INCHES	
		FEET	INCHES	

Drillers' Names SOUTHEASTERN GAS RIG 791

Remarks: RIGGIN UP 36 SPUDDER

9/13/83
DATE

Craig Duckworth 505
DISTRICT INSPECTOR
12/20/2023

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount		Packer		Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING				
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST		

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date. 12/29/2023

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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 039-3971

Oil or Gas Well _____
(KIND)

Company SOUTHEASTERN GAS CO.
 Address CHARLESTON W.VA.
 Farm JOSEPH DRLANDI
 Well No. BR-116
 District LOUDON County KANAWHA
 Drilling commenced 9-13-83
 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 _____ 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 3/8			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 Co. Tools SPUDDER.

Remarks: GO TO LOCATION W/ GRAIG DUCKWORTH TO LEARN MY AREA T.D. 983 @ 2:00 PM

10-5-83
DATE

Jerry W. [Signature]
12/29/2023
DISTRICT WELL INSPECTOR

FORM 20
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL NUMBER 12/29/2023

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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 039-3971

Oil or Gas Well _____
(KIND)

Company SOUTHEASTERN GAS CO.

Address CHARLESTON WVA.

Farm ORLANDI

Well No. BR-116

District LOUDON County KANAWHA

Drilling commenced 9-13-83

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 _____ 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 7 SIZE 1160 No. FT 10-1983 Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Co. Tool's SPUDDER

Remarks: 7" SET ON PACKER TOP OF MAXIMUM SAND

10-19-83
DATE

Jerry [Signature]
12/29/2023
DISTRICT WELL INSPECTOR

FORM 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks: _____

DATE I hereby certify I visited the above well on this date.

DISTRICT INSPECTOR
12/29/2023

✓ IR-26
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

6-28-83

WELL TYPE _____
ELEVATION _____
DISTRICT Louden
QUADRANGLE Marmet
COUNTY Kanawha

API# 47-039-3971
OPERATOR South Eastern Gas Co.
TELEPHONE _____
FARM Otlandi, Joseph
WELL # BR 116

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

JUN 10 1986

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD _____ feet on _____

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

Date Released 6-5-86

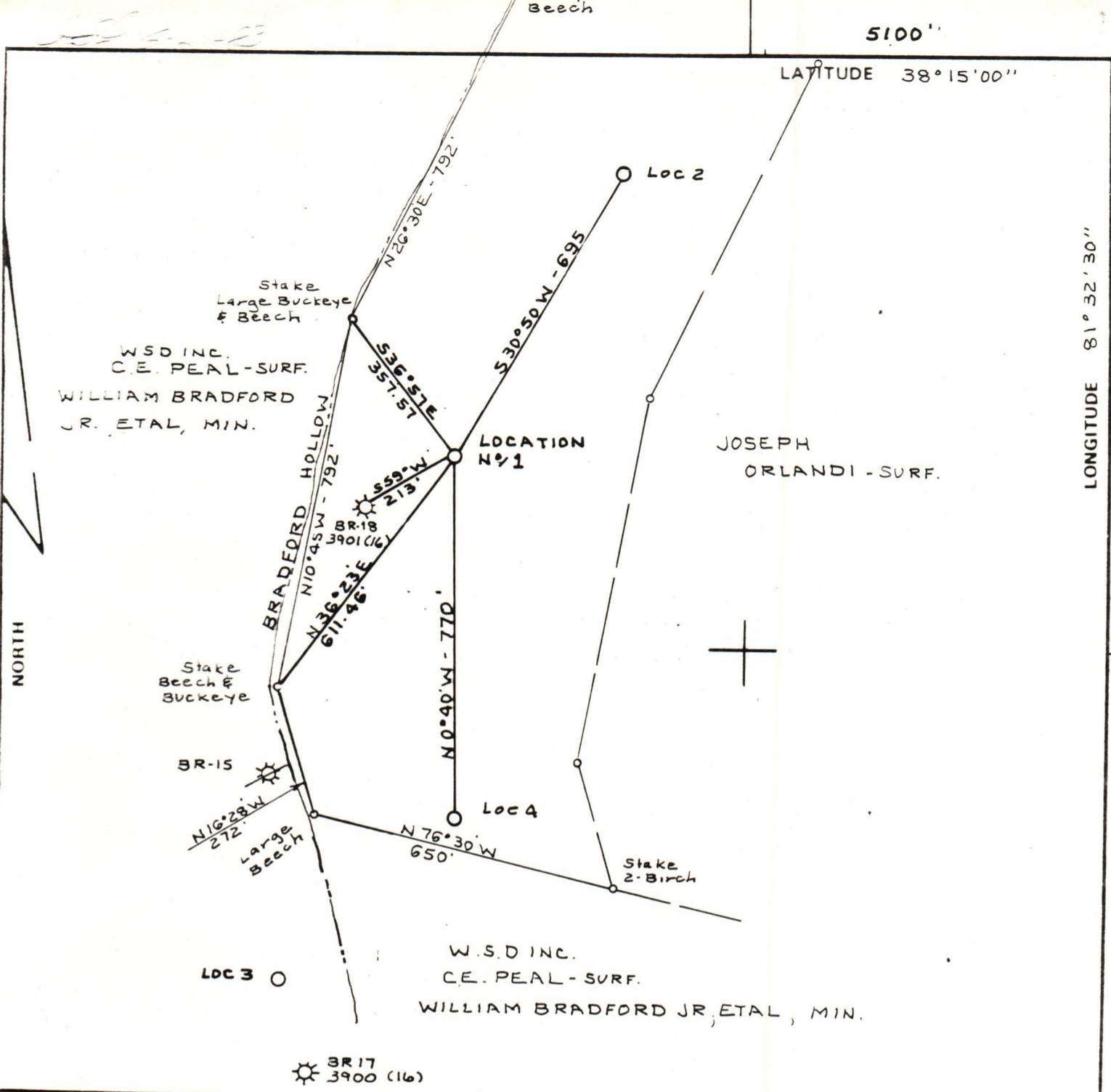
✓
Carlos W. Hively 12/29/2023
Inspector's signature

API# 47 _____ - _____

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



FILE NO. BK 75 PG 40
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION USGS BM 12JJS
 ± of "Y" RT GL RT VS 119
 EI 604.0'

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) C. Y. Valley Jr.
 R.P.E. _____ U.S. 92

PLACE SEAL HERE

(-) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 23 1983
 OPERATOR'S WELL NO BR-116
 API WELL NO 47-039-3971
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION, ELEVATION 345.30' WATER SHED BRADFORD HOLLOW OF KANAWHA RIVER
 DISTRICT LOUDON COUNTY KANAWHA
 QUADRANGLE BELLE 7.5'
 SURFACE OWNER JOSEPH ORLANDI ACREAGE 180
 OIL & GAS ROYALTY OWNER ELIZABETH M. BRADFORD, ETAL LEASE ACREAGE 77.8 12/29/2023
 LEASE NO. BR-75
 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 BIG LIME ESTIMATED DEPTH 1500
 WELL OPERATOR SOUTHEASTERN GAS CO. DESIGNATED AGENT J.C. LIMING
 ADDRESS P.O. BOX 2347 ADDRESS P.O. BOX 2347
CHARLESTON WVA 25328 CHARLESTON WVA, 25328