



1) Date: 3 December, 19 82
 2) Operator's Well No. LOUDIN #3
 3) API Well No. 47 041 3286
 State County Permit

DRILLING CONTRACTOR:

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

S.O.N.N.

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 1230' Watershed: Sleeths Run of Leading Creek
 District: Freeman's Creek County: Lewis Quadrangle: Gilmer 7.5'
- 6) WELL OPERATOR Johnson Exploration Co. 11) DESIGNATED AGENT Gai L. Smythe
 Address P. O. Drawer "L" Address P.O. Drawer 370
Glenville, WV 26351 Glenville, WV 26351
- 7) OIL & GAS ROYALTY OWNER D. & M. Loudin, et al 12) COAL OPERATOR None
 Address Rt. #1, Box AB-1 Address _____
Linn, WV 26384
- 8) SURFACE OWNER R. & J. Ratliff 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rt. #1, Box 74-A Name _____
Linn, WV 26384 Address _____
 Acreage 43 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address N/A
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Bates Address _____
Weston, WV Address _____
260-3820
- 15) PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Bayard
- 17) Estimated depth of completed well, 2950 feet
- 18) Approximate water strata depths: Fresh, 180' feet; salt, _____ feet.
- 19) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No

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 OIL & GAS DIVISION
 DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>13-3/8</u>			<input checked="" type="checkbox"/>		<u>18</u>	<u>18</u>		Kinds
Fresh water	<u>8-5/8</u>		<u>20#</u>	<input checked="" type="checkbox"/>		<u>400</u>	<u>400</u>	<u>110 sks</u>	
Coal									Sizes
Intermediate									
Production	<u>4-1/2</u>		<u>10.5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>2900'</u>	<u>2900'</u>	<u>125-300sks</u>	Depths set
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.

Gai L. Smythe, Agent
 Signed: _____
 Its: Agent; Gen. Manager, WV Operations

OFFICE USE ONLY

Permit number 47-041-3286 **DRILLING PERMIT** Date December 13, 19 82
 Date 02/16/2024

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 August 13, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>OK</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>1579</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.

02/16/2024

Date: _____, 19____

By _____

Its _____



IV-9
(Rev 8-81)

DATE 8 November 1982

WELL NO. Loudin #3

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 041 - 3286

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Johnson Exploration Co.
Address Drawer "L", Glenville, WV
Telephone 304-462-5771

DESIGNATED AGENT Gai L. Smythe
Address Drawer 370, Glenville, WV
Telephone 462-5771(off); 462-5311(hm)

LANDOWNER R. & J. Ratliff

SOIL CONS. DISTRICT West Fork

Revegetation to be carried out by Hall's Reclamation or other sub- (Agent)
contractor.

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 12/1/82 (Date)

Kenneth Knight
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> <u>Rip Rap (if needed)</u> (A)	Structure <u>Drilling Pit</u> (1)
Spacing <u>Rock 15" minimum</u> I.D.	Material <u>Earthen</u>
Page Ref. Manual <u>2-7</u>	Page Ref. Manual <u>-----</u>
Structure <u>Drainage Ditch</u> (B)	Structure <u>Diversion Ditch</u> (2)
Spacing <u>Along Road</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Cross Ditch</u> (C)	Structure <u>Rip Rap</u> (3)
Spacing <u>Variable-100' spacing</u>	Material <u>Rock</u>
Page Ref. Manual <u>2-4</u>	Page Ref. Manual <u>N/A</u>

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DEPT. OF MINES

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	7 Gal. Primasol*	Tons/acre
	or correct to pH 6.5	
Fertilizer	10-20-20	500 lbs/acre
	(10-20-20 or equivalent)	
Mulch	Straw Cover	2 Tons/acre
Seed*	Pasture Mix:	lbs/acre
	K-31 Fescue	35 lbs/acre
hadino	Clover	5 lbs/acre
	Annual Rye	10

Treatment Area II

Lime	7 Gal. Primasol*	Tons/acre
	or correct to pH 6.5	
Fertilizer	10-20-20	500 lbs/acre
	(10-20-20 or equivalent)	
Mulch	Straw Cover	2 Tons/acre
Seed*	Pasture Mix	lbs/acre
	K-31 Fescue	35 lbs/acre
hadino	Clover	5 lbs/acre
pH test.	Annual Rye	10 lbs/acre

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

PLAN PREPARED BY Gai L. Smythe 02/16/2024

ADDRESS Drawer 370
Glenville, WV 26351
PHONE NO. 462-5771(off); 462-5311(hm)

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

MAIN ROYALTY OWNERS: D. & M. Loudin=Rt. #1, Box AB-1 Linn, WV 26384
SURFACE OWNERS ADDRESS: Ratliff = Route #1, Box 74A Linn, WV 26384

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

RECORDED
DEPARTMENT OF MINES
OIL AND GAS DIVISION

MAR 31 1986

FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

Permit No. 41-3286 (12-13-82) County Lewis
Company Russell V. Johnson Farm R+J Retliff
Inspector _____ Well No. 3
Date _____

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

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: Steve Casey
DATE: 3-28-86

02/16/2024

IV-27
11/23/81

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SEP 7 - 1983



OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: September 7, 1983
Well No: 3
API NO: 47 - 041 - ~~285~~ 3286
State County Permit

Oil and Gas Division NOTICE OF VIOLATION

WELL TYPE: Oil ___ / Gas * ___ Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production ___ / Storage ___ / Deep ___ / Shallow * ___ /

LOCATION: Elevation: _____ Watershed: Sleeths Run
District: Freemans Creek County: Lewis Quadrangle: _____

WELL OPERATOR Johnson Exploration Co. DESIGNATED AGENT Gai L. Smythe
Address P.O. Drawer L Address Glenville, W. Va.
Glenville, W. Va. 26351

The above well is being posted this 7th day of September, 1983, for a violation of Code 22-4-7.03 and/or Regulation _____, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Every well shall have stamped or attached in a permanent manner, the A.P.I. identification number, plainly visible to any interested person.
47-041-3285

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until September 15, 1983, to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert Bates 501
Oil and Gas Inspector

Address 109 Minnich St.
Weston, W. Va. 26452

Telephone: 269-3820 02/16/2024

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SEP 11 1983

11/23/81
14-27



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
NOTICE OF VIOLATION

Date: September 7, 1983
Well No. 3
API No. 41-041-285
State County Permit

WELL TYPE: Oil / Gas * / Liquid Injection / Waste Disposal
of "Gas" - Production / Storage / Deep / Shallow *
LOCATION: Elevation: Washed: Steel Run
District: Fagerman / Community: Lewis / Quadrangle:
WELL OPERATOR Johnson Exploration Co.
DESIGNATED AGENT Carl L. Smith
Address: P.O. Drawer 1
Clonville, W. Va. 25751

The above well is being posted this 7th day of September, 1983, for a violation of Code 22-4-7.03 and/or Regulation, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Every well shall have attached or attached in a permanent manner, the
No. 1 identification number, plainly visible to any interested person.
#7-041-285

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.
You are hereby granted until September 15, 1983, to abate this violation.
Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Carl L. Smith
Oil and Gas Inspector

Address: 109 Munich St.
Clonville, W. Va. 25752
Telephone: 209-8220

02/16/2024

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SEP 27 1983

Operator's Well Number Loudin #3
API Well No.: 47 - 041 - 320
State County Perm

OIL & GAS DIVISION
DEPT. OF MINES DEPARTMENT OF MINES, OIL AND GAS DIVISION
STATE OF WEST VIRGINIA

NOTICE OF ABATEMENT

WELL TYPE: Oil Gas Liquid Injection _____ / Waste disposal _____
Underground _____ / Storage _____

LOCATION: If "Gas" - Production _____ / Deep _____ / Shallow
Elevation: 1230

District: Freemans Creek Watershed: Sleiths Run
WELL OPERATOR Johnson Exploration Co County: Lewis
Address _____ Quadrangle: Gilmer
DESIGNATED AGENT Gai L. Smythe
Address R.O. Drawer 2
Glennville WV

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on Sept 23, 19 83.
The violation of Code § 7.03 heretofore found to exist on Sept 7, 19 83, by Form IV-27, "Notice of Violation" Form IV-28, "Imminent Danger Order" _____ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

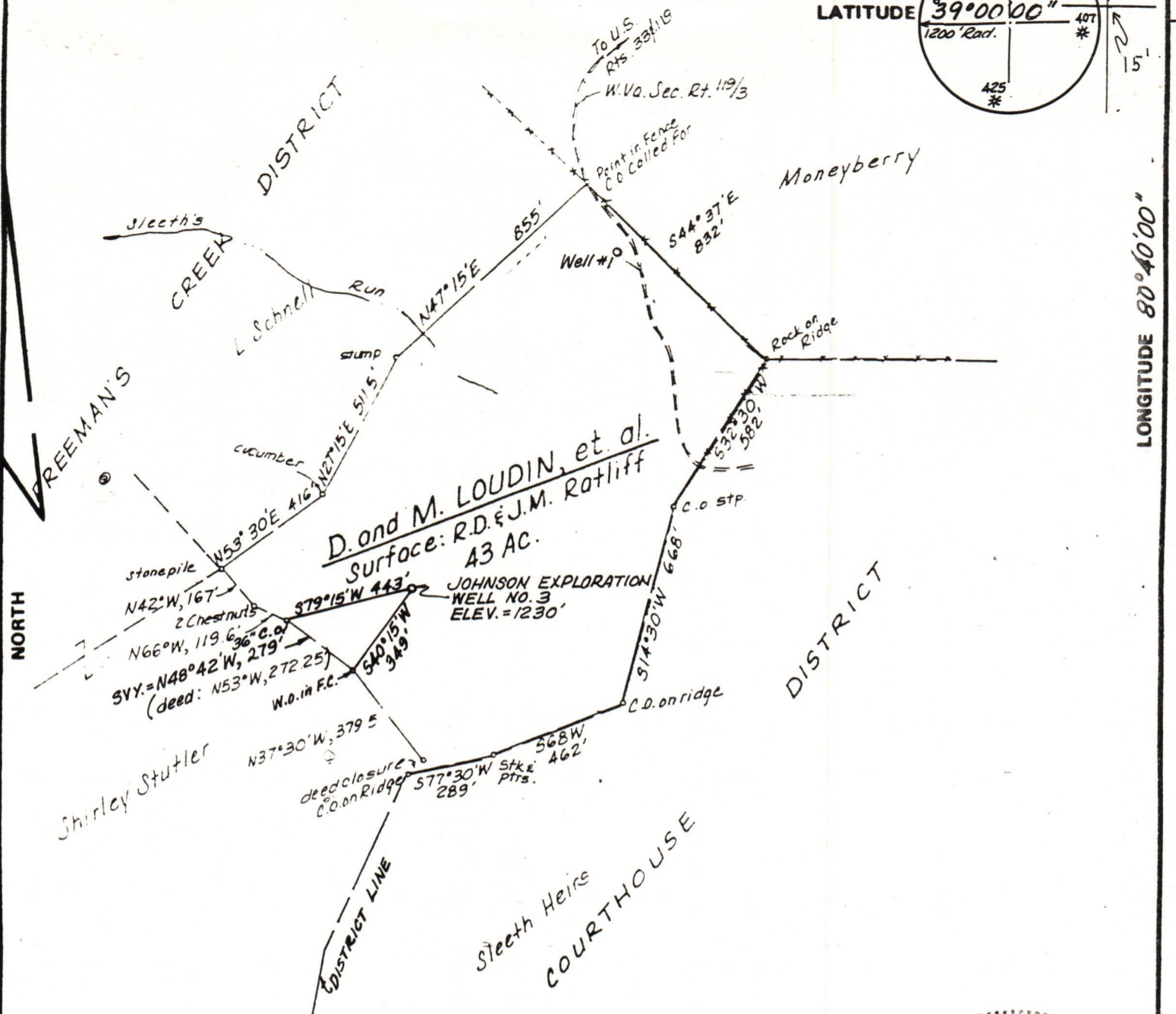
A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Robert Bates 501
Oil and Gas Inspector
Address 109 Minnich
Weston, WV
Telephone 269-3820

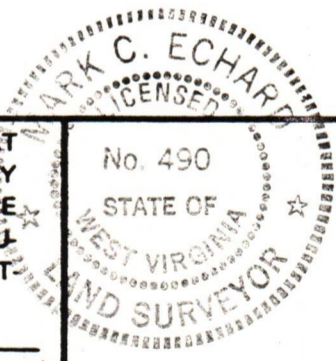
M.C.E. 12/2/82

LATITUDE 39°00'00"
1200' Rad. 407' *
425' *

LONGITUDE 80°40'00"



COAL OWNERSHIP:
Eastern Associated Coal Corp.
Koppers Building, Pittsburgh, Pa.



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/200'
PROVEN SOURCE OF ELEVATION R.D. AT DIST. LINE 1000'S NE OF LOCATION, ELEV. = 1269'

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.

Mark C. Echard
(SIGNED) MARK C. ECHARD
R.P.E. _____ L.L.S. 490

No. 490
STATE OF WEST VIRGINIA
LAND SURVEYOR
PLACE SEAL HERE

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



DATE NOVEMBER 12, 19 82
OPERATOR'S WELL NO. THREE
API WELL NO. _____
47 - 041 - 3286
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 1230' WATER SHED SLEETHS RUN OF LEADING CREEK
DISTRICT FREEMAN'S CREEK COUNTY LEWIS
QUADRANGLE GILMER 7.5'

SURFACE OWNER R.D. & J.M. RATLIFF ACREAGE 43
OIL & GAS ROYALTY OWNER D. and M. LOUDIN, et al. LEASE ACREAGE 75 **02/16/2024**
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) _____

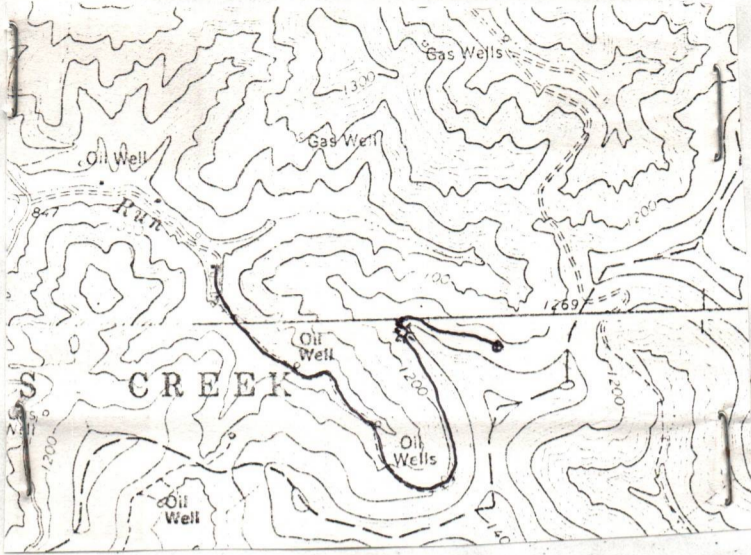
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION BAYARD ESTIMATED DEPTH 2950'
WELL OPERATOR JOHNSON EXPLORATION DESIGNATED AGENT GAI L. SMYTHE
ADDRESS DRAWER "L" ADDRESS DRAWER 370
GLENVILLE, W.VA. 26351 GLENVILLE, W.VA. 26351

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

LEGEND

Well Site ⊕

Access Road ———

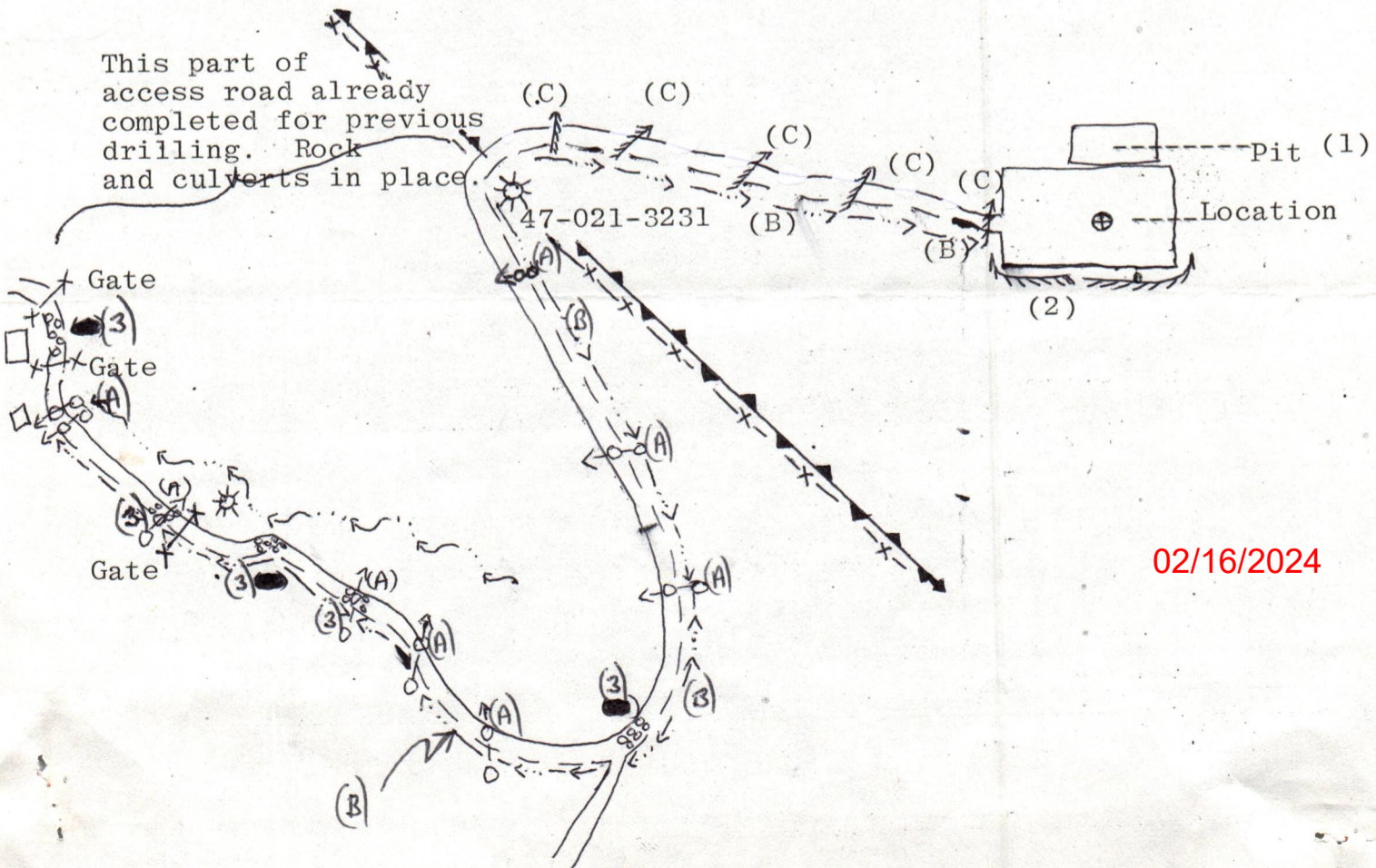


WELL SITE PLAN

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	—x—x—x—x—x—	Wet spot	⊗
Planned fence	—/—/—/—/—/—/—/—	Building	■
Stream	~~~~~	Drain pipe	—○—○—○—○—○—
Open ditch	—+—+—+—+—+—+—+—	Waterway	⇄⇄⇄⇄⇄⇄⇄⇄



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02/16/2024

0-10
Rev. 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil _____
 Cable _____ Gas _____
 Recycling _____ Comb. X
 Water Flood _____ Storage _____
 Disposal _____ (Kind)

Quadrangle Gilmer 7.5
 Permit No. 47-041-3286

Company Johnson Exploration Co.
 Address Drawer "L", Glenville, WV26351
 Farm Donald Loudin Acres 75
 Location (waters) Sleith Run
 Well No. Three (3) Elev. 1230
 District Freeman's Creek County Lewis
 The surface of tract is owned in fee by Robert & Jeanne Ratliff, Linn, WV
 Address _____
 Mineral rights are owned by Donald and Sue Loudin Address Linn, WV
 Drilling Commenced 12/23/82
 Drilling Completed 12/30/82
 Initial open flow 50 M cu. ft. show tblk
 Final production NT cu. ft. per day show tblk
 Well open 4 hrs. before test 795 RP

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu ft (Sks.)
Size 20-16			
Code 13-10"			
5/8			
8 5/8	431	431	120 sks
5 1/2			
4 1/2		2010	267 sks
3			
2 1/2		2775	
Liners Used			

Well treatment details:
 Bayard-5th: Break at 1500#; 10,000 80/100, 33,000 20/50; 500 Gal. Acid; Treat 1300
 Weir, Big Injun, Keener: Break at 1400#, 20,000 80/100; 67,000 20/50; 1000 Gal. Acid; Treat 1000-1200#;
 Clay-Sta. Non-emulsifier, surfactant and iron agent run on both stages.

Oil was encountered at none Feet _____ Inches _____
 Fresh water none Feet _____ Salt Water _____ Feet _____
 Producing Sand Bayard, Weir, Big Injun, Keener Depth See Well Record below

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Surface and Red Rock			0	16		
Shale			16	195		
Shale and sand			195	245		
Shale and sand			245	330		
Sand			330	340		
Shale-Red rock			340	400		
Shale	Soft		400	750		
Sand	Hard		750	885		
Shale	Hard		885	945		
Shale	Soft		945	1110		
Sand			1110	1130		
Black Slate			1130	1138		
Shale			1138	1150		
Sand			1150	1200		
Shale			1200	1275		
Sand			1275	1300		
Sandy Shale			1300	1325		
Slate			1325	1350		
Shale			1350	1400		
Sand and Shale			1400	1450		
Shale			1450	1485		

02/16/2024

9825 737

(OVER)

Quantity	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
	Sand		1485	1532		
	Shale		1532	1550		
	Limey Shale		1549	1600		
	Sandy Lime		1600	1625		
	Lime		1625	1630		
	Shale		1630	1645		
	Sand (Salt)		1645	1695		
	Shaly Lime		1695	1752		
	Sand		1752	1786		
	Shale		1786	1794		
	Lime		1794	1950		
	Big Injun		1950	2013		
	Shaly Sand		2013	2031		
	Weir		2031	2174		
	Shale		2174	2432		
	Sand		2432	2461		
	Shale		2461	2542		
	Fifth Sand		2542	2607		
	Shale		2607	2737		
	Bayard		2737	2815		
	Shale		2815	2954		
						T. D. (Logger's)

02/16/2024

Date 12 May 1983

APPROVED *[Signature]* Owner