



1) Date: December 22, 19 83
 2) Operator's Well No. J-841
 3) API Well No. 47 - 001 - 2018
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1608 Watershed: Glady Creek
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name S.W. Jack Drilling Company
 Address General Delivery Address P.O. Box 48
Ellamore, WV 26267 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Fox
- 12) Estimated depth of completed well, 5350 feet
- 13) Approximate trata depths: Fresh, 65 feet; salt, 0 feet.
- 14) Approximate coal seam depths: 125, 420 Is coal being mined in the area? Yes / No /
- 15) 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	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1000	1000	To surface	NEAT SIZES
Coal	8 5/8	ERW	23	x		1000	1000	To surface	
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		5300	5300	325 sks.	Depths set
Liners								OR AS REQ BY RULE 15.01	Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2018

January 17, 1984
 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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires January 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
	<u>JS</u>	<u>MM</u>	<u>MM</u>	<u>1388</u>

T. J. ...
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) Date: _____

2) Operator's Well No. _____

3) API Well No. _____

4) District _____

5) County _____

6) State _____

7) Designated Agent _____

8) Oil & Gas Inspector to be notified _____

9) Drilling Contractor _____

10) Proposed Well Work: _____

11) Geological Target Formation _____

12) Estimated depth of completed well _____

13) Approximate true depths: fresh _____

14) Approximate coal and depths: _____

15) Is coal being mined in the area? Yes _____ No _____

Casing or Tubing Type	Size	Grade	Production		Footage Interval		Element Filter or Screen (Cable tool)	Packers
			Weight per ft.	Loss	Top	Bottom		
Concrete	12 1/2	1-80	42	x	30	0	0 size	
Iron pipe	6 1/2	20	23	x	1000	1000	no surface	
Cast	6 1/2	23	23	x	1000	1000	no surface	
Intermediate								
Production								

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Agent	Plan	Casing	Fee

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name James P. Stemple
Address Rt. # 2
Philippi, WV 26416
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name Cecil Wilson
Address 115 Pine Wood Ave.
Bridgeport, WV 26330

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following comments:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

RECEIVED
DEC 28 1983

OIL & GAS DIVISION
DEPT. OF MINES

THE PERSON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTON 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.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other 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 X

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

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Richard Reddecliff

WELL OPERATOR J&J Enterprises, Inc.
By Richard M. Reddecliff
Its _____ Designated Agent
Address P.O. Box 48
Buckhannon, WV 26201
Telephone 472-9403

this 27th day of December, 1983.
My commission expires 10/16, 1989.

Linda S. Canfield
Notary Public, Upshur County,
State of West Virginia

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code §§ 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code §§ 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
James & Marceline Stemple Rt. # 2 Philippi, WV 26416	To Beckler Energy To J&J Enterprises, Inc.	1/2-1/8-100%	95	481
Sherman & Mary Lindsey 1203 N. 13th. St. Temple, Texas		1/4-1/8-100%	92	492
Va. & Charles Boyles Route # 6 Caldwell, OH 43724		1/4-1/8-100%	92	404

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

APPLICATION FOR A WELL WORK PERMIT

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District: Glade County: Barbour Quadrangle: Nestorville
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Buckhannon, WV 26201
- 7) DESIGNATED AGENT Richard Reddecliff Address P.O. Box 48
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracy Address General Delivery
Ellamore, WV 26267
- 9) DRILLING CONTRACTOR: Name S.W. Jack Drilling Company Address P.O. Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill Deeper / Redrill / Stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) _____
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Fresh water	8 5/8	ERW	23	x		1000	1000	TO SURFACE	Sizes
Coal	8 5/8	ERW	23	x		1000	1000	TO SURFACE	Depths set
Intermediate									Perforations:
Production	4 1/2	J-55	10.5	x		5300	5300	325 sks.	Top Bottom
Tubing									
Liners									

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application (or less than 5 days if the Application is to plug a well), if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described herein.

I further state that I have no objection to the planned work described in these material and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

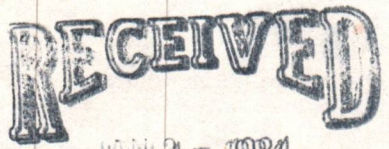
NAME: _____

James P. Stump Date: 1/29/84
(Signature)

By _____

(Signature) Date: _____

Its _____ Date: _____



OIL & GAS DIVISION
DEPT. OF MINES



OIL & GAS DIVISION
DEPT. OF MINES

INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, WV 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be personally served or mailed to you on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments should include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the Application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.


The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:


- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

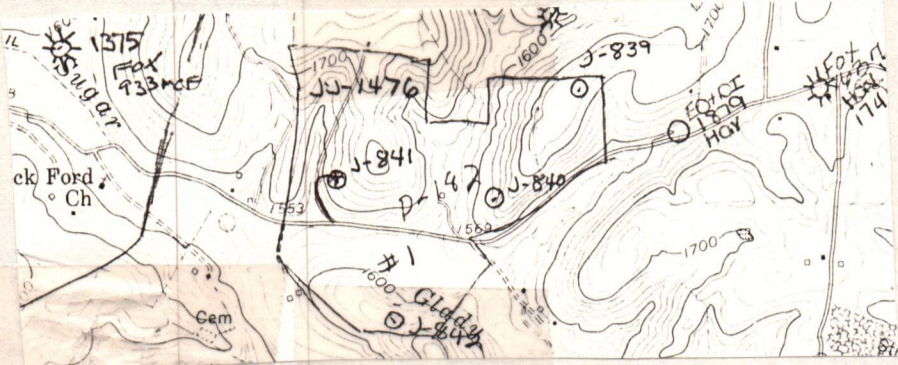
If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

LEGEND


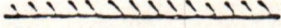
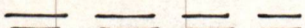








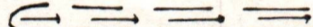
WELL SITE 

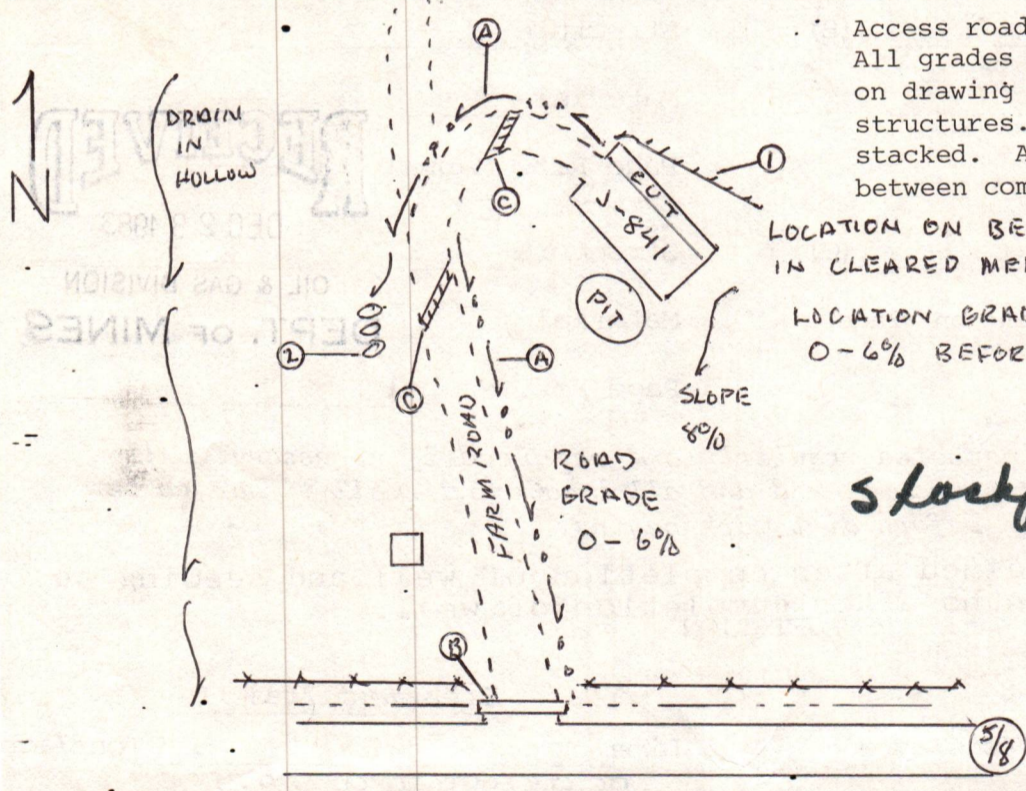
ACCESS ROAD 



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

LEGEND

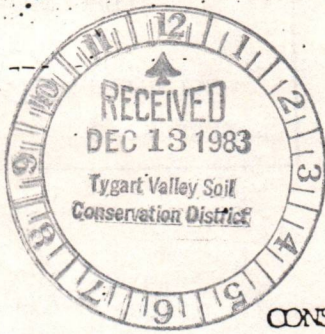
Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



Access road will follow up-graded farm road. All grades for location and road are indicated on drawing as well as sediment control structures. ALL timber will be cut and stacked. Access road subject to change between company and land owner or acquirement of "Right of Way." If Changed, a revised plan will be submitted. All cuts on 2:1 slope.

Stockpile topsoil

5/8



DATE 12/9/83

WELL NO. J-841

API NO. 47 - 001-2018

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.
Address P.O. Box 48
Telephone Buckhannon, WV 26201

DESIGNATED AGENT Richard M. Reddecliff
Address P.O. Box 48, Buckhannon, WV
Telephone 472-9403

LANDOWNER James Stemple Box 61 Philippi, WV 26416

SOIL CONS. DISTRICT Tygart Valley

Revegetation to be carried out by J&J Enterprises, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 12/18/83 (Date)

Jean Freeman
(SCD Agent)

ACCESS ROAD
Structure Drainage Ditch (A)
Spacing To be constructed along road
Page Ref. Manual 2-10

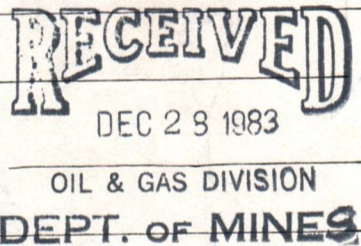
LOCATION
Structure Diversion Ditch (B)
Material soil
Page Ref. Manual 2-12

Structure Road Culvert (B)
Spacing Min. Size 15"
Page Ref. Manual 2:8

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

Structure Cross Relief Drains (C)
Spacing 40' -150' apart depending on grade
Page Ref. Manual 2:4

Structure _____
Material _____
Page Ref. Manual _____



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.

Note: Drainage to be maintained after completion of well and seeding to commence within 3 months after completion of well.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Ky-31 Tall Fescue 30 lbs/acre
Orchard grass 30 lbs/acre
Ladino Clover 5 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Ky-31 Tall Fescue 30 lbs/acre
Orchard Grass 30 lbs/acre
Ladino Clover 5 lbs/acre

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

PLAN PREPARED BY Ed Summerfield

ADDRESS P.O. Box 48
Buckhannon, WV 26201

PHONE NO. 472-9403

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

RECEIVED

DEC 28 1983

OIL & GAS DIVISION
DEPT. OF MINES

Dec 11/83

P 471 414 313
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse) 9-840 9-811

Sent to	Cecil Wilson	
Street and No.	115 Pine Wood Ave.	
P.O., State and ZIP Code	Bridgeport, WV	26330
Postage	\$	54
Certified Fee		95
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Show/Prepare		60
to whom and Date	Cecil Wilson	
Return Receipt		
Date, and Address of Delivery		
TOTAL	\$	189

Postmark: Date
 J & J ENTERPRISES, INC.
 P.O. BOX 48
 BRIDGEPORT, WV 26201

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

Benson: Perforations: 3774-78(5 holes)4046-48(3 holes) Fracturing: 21,000 lbs. 20/40 sand: 500 gal. acid: 350 Bbls. fluid.
 Elk: Perforations: 4551-54(4 holes)4663-66(6 holes) Fracturing: 27,500 lbs. 20/40 sand: 500 gal. acid: 450 Bbls. fluid.
 Haverty: Perforations: 5014-17(3 holes) 5034-38(4 holes)5044-48(5 holes) Fracturing: 19,000 lbs. 20/40 sand: 500 gal. acid: 275 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we}^{XGLS}$

$$t=60+(0.0075 \times 5185) = 459.7=559 \quad x=53.35 \times 559 = \frac{1}{29823} = 0.000034 \quad P_f=1500 \times 2.72^{(0.000034)} (0.000034)^{(0.9)}$$

$$(4411) (0.9) = 1500 \times 2.72^{0.082} = 1700 \times 1.09 = 1853$$

$P_f=1853$ psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top soil-clay			0	15	
Sand			15	76	
Coal			76	80	1" stream @ 76'
Shale			80	87	
Coal			87	90	2" stream @ 255'
Shale			90	127	
Coal			127	130	1" stream @ 925'
Sand			130	272	
Coal			272	276	Gas ck @ 4210 No show
Sand			276	406	
Coal			406	410	
Sandy shale & sand			410	625	
Sandy shale & sand			625	1065	
Little Lime			1065	1075	
Shale			1075	1081	
Big Lime			1081	1145	
Sand & shale			1145	1485	
Sandy shale			1485	1785	
Sand & sandy shale			1785	1850	
Sand & sandy shale			1850	2765	
Sand & sandy shale			2765	3080	
Sand & sandy shale			3080	3345	
Sand & sandy shale			3345	3774	
Benson			3774	4048	
Sand & sandy shale			4048	4551	
Elks			4551	4666	
Sand & sandy shale			4666	5014	
Haverty			5014	5048	
Sand & sandy shale			5048	5447 TD.	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Bob Dillin

Date: 3/28/84

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."

IV-35
(Rev 8-81)

RECEIVED

MAR 30 1984

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date March 28, 1984
Operator's Well No. J-841
Farm Stemple
API No. 47 - 001 - 2018

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

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

LOCATION: Elevation: 1608 Watershed Glady Creek
District: Glade County Barbour Quadrangle Nestorville

COMPANY J&J Enterprises, Inc.

ADDRESS P.O. Box 48 Buckhannon, WV 26201

DESIGNATED AGENT Richard Reddecliff

ADDRESS P.O. Box 48, Buckhannon, WV 26201

SURFACE OWNER James Stemple

ADDRESS Box 61, Philippi, WV

MINERAL RIGHTS OWNER James Stemple

ADDRESS Box 61, Philippi, WV

OIL AND GAS INSPECTOR FOR THIS WORK Phillip

Tracy ADDRESS Forest Festival Terrace Apt. 24, Elkins, WV

PERMIT ISSUED 11/17/84

DRILLING COMMENCED 2/15/84

DRILLING COMPLETED 2/24/84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	21	0	0 sks.
9 5/8			
8 5/8	825	825	215 sks.
7			
5 1/2			
4 1/2	5184.90	5184.90	450 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Fox Depth feet

Depth of completed well 5447 feet Rotary x / Cable Tools

Water strata depth: Fresh 76,255 feet; Salt 0 feet

Coal seam depths: 76-80, 87-90, 127-30, 272-76 Is coal being mined in the area? No
406-10

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5014-48 feet

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

Combined Final open flow 1,055 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 3 hours

Static rock pressure 1700 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Elk, Benson Pay zone depth 3774-78, 4046-48, 4663-66, 4551-54 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)

BARK 2018

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

RECEIVED

FEB 22 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2018

Oil or Gas Well
(KIND)

Company J & J Enterprises
 Address _____
 Farm James Stemple
 Well No. J-841
 District Glade County Barbour
 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 _____ bbla., 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 Packler
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: Starting hole

2-15-84
DATE

Philip Tracy
DISTRICT WELL INSPECTOR

FORM 20
2/16/82

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

RECEIVED

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 WELL INSPECTOR

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

RECEIVED
MAY 9 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2018

Oil or Gas Well
(KIND)

Company J & J Enterprise
 Address _____
 Farm James Stemple
 Well No. J 841
 District Glade County Barbours
 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: checked reclamation work.

5-1-84
DATE

[Signature]
DISTRICT WELL INSPECTOR

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			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 INSPECTOR



RECEIVED
JUN 4 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
April 9, 1984

COMPANY J & J Enterprises, Inc.
P. O. Box 48
Buckhannon, West Virginia 26201

PERMIT NO 001-2018 (1-17-84)
FARM & WELL NO James Stemple #J-841
DIST. & COUNTY Glade/Barbour

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"/>
15.05	Cement Type	<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"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *David B. Ellis*

DATE 5-30-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

June 7, 1985
DATE

**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.)	<u>47 - 001 - 2018 - 0000</u>			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA	<u>N/A</u> Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5048</u> feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>J & J Enterprises, Inc.</u> Name <u>P.O. Box 697</u> Street <u>Indiana</u> <u>PA</u> <u>15701</u> City State Zip Code			<u>009480</u> Seller Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	<u>Glade</u> Field Name <u>Barbour</u> <u>WVA</u> County State			
(b) For OCS wells:	<u>N/A</u> 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>J-841</u>			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>N/A</u>			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>Tennessee Gas Pipeline Company</u> Name Buyer Code			
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	Million Cubic Feet			
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-)]
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>2 8 7 9</u>	<u>2 7 8</u>	<u>3 1 5 7</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>2 8 7 9</u>	<u>2 7 8</u>	<u>3 1 5 7</u>
9.0 Person responsible for this application:	<u>Richard J. Kline</u> <u>Secretary</u> Name Title <u>Richard J. Kline</u> Signature <u>4/9/84</u> Date Application is Completed <u>(412) 349-6800</u> Phone Number			
Agency Use Only	Date Received by Juris. Agency APR 13 1984 Date Received by FERC			

PARTICIPANTS:

DATE: MAY - 2 1984

BUYER-SELLER CODE _____

WELL OPERATOR: _____

FIRST PURCHASER: _____

OTHER: _____

J & J Enterprises, Inc.
Tennessee Gas Pipeline

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

840413 -103-001 - 2018

QUALIFIED

Use Above File Number on all Communications
Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 _____ Items not completed - Line No. _____
- 2. IV-1 Agent _____
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat _____
- 5. IV-35 Well Record _____ Drilling _____ Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete? _____
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ Affidavit Signed _____
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
Gas Analyses _____
- (5) Date commenced: _____ Date completed _____ Deepened _____
- (5) Production Depth: _____
- (5) Production Formation: _____
- (5) Final Open Flow: _____
- (5) After Frac. R. P. _____
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (8) Line Pressure: _____ PSIG from Daily Report _____
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done _____
- 10-17. Is affidavit signed? _____ Notarized? _____
- Does official well record with the Department confirm the submitted information? _____
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

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

Date April 9, 1984

Operator's Well No. J-841

API Well No. 47 - State 001 - County 2018 - Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT James R. Willett
ADDRESS S.W. Jack Drilling Company
Box 48 Buckhannon, W. VA. 26201

WELL OPERATOR J & J Enterprises, Inc.
ADDRESS P. O. Box 697
Indiana, PA 15701

LOCATION: Elevation 1608
Watershed Glady Creek
Dist. Glade County Barbour Quad Nestorville

GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS P.O. Box 2511
Houston, Texas 77001

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling was begun: 2-15-84

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

Rock Pressure: 1700 Well was shut in several days after treatment and pressure was measured with a spring gauge.

BOTTOM HOLE PRESSURE $Pf = Pwe^{XGLS}$
 $t = 60 + (0.0075 \times 5185) = 459.7 = 559$ $X = \frac{1}{53.35} \times 559 = 10.48$ $= 29823$ $= 0.000034$ $Pf = 1500 \times 2.72^{(0.000034)(0.60)}$
 $(4411)(0.9) = 1500 \times 2.72^{0.082} = 1700 \times 1.09 = 1853$

$Pf = 1853$ psi I, James H. McElwain, 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.

James H. McElwain

STATE OF ~~WEST VIRGINIA~~, PA
COUNTY OF Indiana, TO WIT:

I, Vicki L. Vanderberg, a Notary Public in and for the state and county aforesaid, do certify that J.H. McElwain, whose name is signed to the writing above, bearing date the 9th day of April, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 9th day of April, 1984. My ~~XXXXXX~~ expires on the 23 day of January, 1988.
Commission

[NOTARIAL SEAL]

VICKI L. VANDERBERG, NOTARY PUBLIC
INDIANA BOROUGHS, INDIANA COUNTY
MY COMMISSION EXPIRES JAN 23, 1988
Member, Pennsylvania Association of Notaries



STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR J & J Enterprises, Inc.
ADDRESS Box 697
Indiana, PA 15701

DESIGNATED AGENT James R. Willett
ADDRESS S. W. Jack Drilling Co.
Box 48, Buckhannon, W. VA. 26201

Gas Purchase Contract No. _____ and Date _____
(Month, Day and year)

Meter Chart Code _____

Name of First Purchaser Tennessee Gas Pipeline Company
P.O. Box 2511
(Street or P.O. Box)
Houston, Texas 77001
(City) (State) (Zip Code)

FERC Seller Code 009480

FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA _____
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

103

N/A

Category Code

Richard J. Kline
Name (Print)

Secretary
Title

Richard J. Kline
Signature

P. O. Box 697
Street or P. O. Box
Indiana PA 15701
City State (Zip Code)

412 349-6800
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978. (NGPA); for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

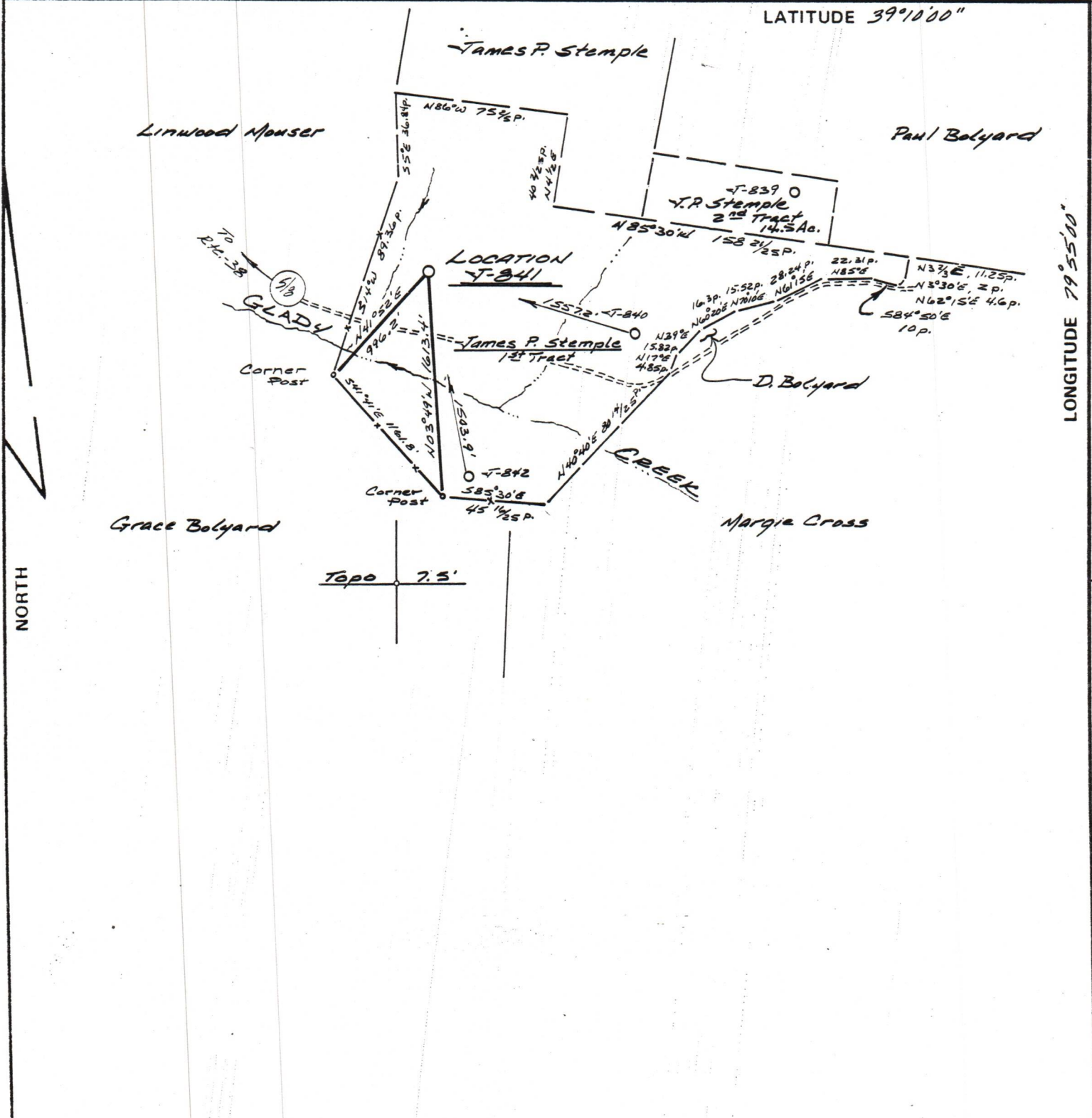
WEST VIRGINIA DEPARTMENT OF MINES

APR 13 1984

By [Signature] Director
Title _____

Date received by
Jurisdictional Agency _____

9,925' LATITUDE 39°10'00"



LONGITUDE 79°55'00\"/>

FILE NO. 346.01
 DRAWING NO. 83-95
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION Spot Elev. - 1563'
S.W. of Location.

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) Richard L. Reddecliff
 R.P.E. Buckhannon, WV L.L.S. 555

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE November 29, 1983
 OPERATOR'S WELL NO. T-841
 API WELL NO. 47-001-2018
 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 1608' WATER SHED Glady Creek
 DISTRICT Glade COUNTY Barbour
 QUADRANGLE Nestorville
 SURFACE OWNER James P. Stemple ACREAGE 136.65
 OIL & GAS ROYALTY OWNER James P. Stemple & etal. LEASE ACREAGE 151.45
 LEASE NO. T-1476
 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 Fox ESTIMATED DEPTH 5350'
 WELL OPERATOR TET ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48