



1) Date: 19 May, 19 84
 2) Operator's Well No. J-981
 3) API Well No. 47-001-2068
 State West Virginia County Barbour Permit Oil & Gas

RECEIVED
MAY 24 1984

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

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X)
- 5) LOCATION: Elevation: 1480' Watershed: Raccoon Creek
 District: Cove County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR J&J Enterprises, Inc.
 Address PO Box 48
Buckhannon, WV 26201
- 7) DESIGNATED AGENT Richard Reddecliff
 Address PO 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 SW Jack Drilling, CO.
 Address PO Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5800' feet
- 13) Approximate strata depths: Fresh, 65' feet; salt, 0 feet.
- 14) Approximate coal seam depths: 125 to 420' Is coal being mined in the area? Yes / No XX

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	Sizes
Coal	8 5/8	ERW	23	X		1000	1000	To surface	
Intermediate									Depths set
Production	4 1/2	J-55	10.5	X		5750	5750	350 sks.	
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2068 Date May 25, 19 84

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 May 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>TS</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>1553</u>
--------------------	---------------------	--------------------	----------------------	---------------------

[Signature]
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) LOCATION: District: Cove; County: Barbour; Quarter: Nestorville; Township: Redwood; Range: 1480; Section: 30

2) WELL OPERATOR: J&J Enterprises, Inc.; Address: PO Box 48, Buckhannon, WV 26201

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Phillip Tracy; Address: General Delivery, Buckhannon, WV 26201

4) PROPOSED WELL WORK: Drill: deeper; shallower; Plug off old formation: Perform new formation: Other physical change in well capacity: (Specify)

5) DRILLING CONTRACTOR: Name: W. Jack Drilling, CO.; Address: PO Box 48, Buckhannon, WV 26201

6) APPROXIMATE COAL STRAIN DEPTH: 155 to 150'

7) APPROXIMATE RATE DEPTH: 65'

8) NATURAL DEPTH OF COMPLETED WELL: 2800'

9) GEOLOGICAL TARGET FORMATION: Heavy

FORMATION	THICKNESS	PERCENTAGE	CONTACT INTERVALS		PACKERS
			Top (feet)	Bottom (feet)	
Coal	8 5/8'	23	1000	1000	0
Shale	8 5/8'	23	1000	1000	0
Intermediate	4 1/2' - 5 1/2'	5	5750	5750	350' size

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: _____

Band	Area	Plan	Casing	Log
AB				

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



1) Date: 19 May, 19 84
 2) Operator's Well No. J-981
 3) API Well No. 47 001
 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: 1480' Watershed: Raccoon Creek
 District: Cove County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48 Address PO Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name SW Jack Drilling, CO.
 Address General Delivery Address PO Box 48
Ellamore, WV 26257 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, _____
- 12) Estimated depth of completed well, _____ feet
- 13) Approximate trata depths: Fresh, 65' feet; salt, 0 feet.
- 14) Approximate coal seam depths: 125 to 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		Kinds	Sizes
Conductor	<u>13/8</u>	<u>M-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>30</u>	<u>0</u>	<u>0 sks.</u>		
Fresh water	<u>5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>to surface</u>		
Coal	<u>5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>to surface</u>		
Intermediate										
Production	<u>1/2</u>	<u>J-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5750</u>	<u>5750</u>	<u>350 sks.</u>		
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 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 therein.

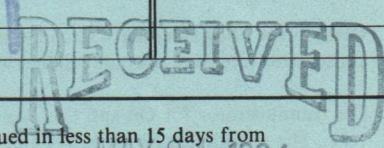
I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)

Velma M. Skidmore Date: _____
 (Signature)
 _____ Date: _____
 (Signature)
Velma M. Skidmore



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.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

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, West Virginia 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 delivered 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. 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 must 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.

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 Page</u>
<i>Delma M. Skidmore</i>	<i>Beckler Energy, Inc.</i>	<i>1/8-100%</i>	<i>89/543</i>
	<i>Assigned to</i>		
	<i>J & J Enterprises, Inc.</i>		<i>100/220</i>

1) Date: 19 May, 1984
2) Operator's
Well No. J-981
3) API Well No. 47 - 001-2068
State County Permit

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 Velma M. Skidmore
Address Rt. 1, Box 298
Moatsville, WV 26405

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Velma M. Skidmore
Address RT. 1, Box 298
Moatsville, WV 26405

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 documents:

- (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.

THE REASON 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.

RECEIVED

MAY 24 1984

OIL & GAS DIVISION
DEPT. OF MINES

6) 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.)

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? ~~XX~~ No

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 M. Reddecliff,
this 22 day of May, 1984.
My commission expires 10/16, 1989.

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

WELL

OPERATOR J&J ENTERPRISES, INC.

By Richard M. Reddecliff
Its Designated Agent
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404



1) Date: 19 May, 19 84
 2) Operator's Well No. J-981
 3) API Well No. 47 001
 State County Permit

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

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- 5) LOCATION: Elevation: 1480' Watershed: Raccoon Creek
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 Plug off old formation / Perforate new formation /
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- 11) GEOLOGICAL TARGET FORMATION, Haverty
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- 14) Approximate coal seam depths: 125 to 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		Kind	Top
Conductor	<u>1 13/4</u>	<u>H-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>30</u>	<u>0</u>	<u>0 sks.</u>		
Fresh water	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>To surface</u>		
Coal	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>To surface</u>		
Intermediate										
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5750</u>	<u>5750</u>	<u>350 sks.</u>		
Tubing										
Liners										

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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 the filing of the Application.

WAIVER

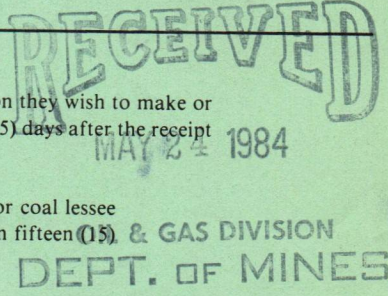
The undersigned coal operator _____ / owner _____ / lessee _____ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work 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.

Date: _____, 19 _____

By Velma M. S. Hedmore

Its _____

Coal Owner



AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

RECEIVED

MAY 24 1984

STATE OF West Virginia,
COUNTY OF _____:

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

OIL & GAS DIVISION
DEPT. OF MINES

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A)
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B)
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. T-981 located in Cove District, Barbour County, West Virginia, upon the person or organization named--

Velma M. Skidmore

--by delivering the same in Barbour County, State of W.Va., on the 21st day of May, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

- Handing it to him / her or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
- Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

- Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

- Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

- Handing it to the corporation's employee / officer / director / attorney in fact / named _____.

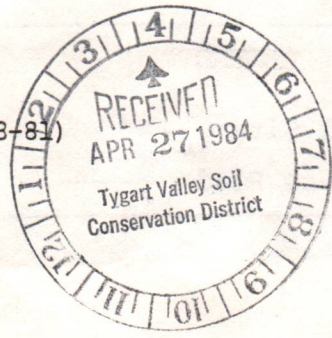
Rayford L. Astrander
(Signature of person executing service)

Taken, subscribed and sworn before me this 21st day of May, 1984.
My commission expires October 16, 1989.

Linda S. Campbell
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

IV-9
(Rev 8-81)



DATE 27 APRIL, '84
WELL NO. J-981
API NO. 47-001-2068

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J&J Enterprises, Inc.
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

DESIGNATED AGENT Richard Reddicliff
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

LANDOWNER Velma Skidmore
Moatsville, WV.
Revegetation to be carried out by J&J Enterprises, Inc. (Agent)

SOIL CONS. DISTRICT Tygart Valley

This plan has been reviewed by Tygart Valley SCD. All corrections
and additions become a part of this plan: 4/28/84
(Date)



Jean Freeman
(SCD Agent)

OIL & GAS DIVISION
DEPT. OF MINES

ACCESS ROAD

LOCATION

Structure Culverts (A)
Spacing As shown and as needed.
(15" min. when leaving State road.)
Page Ref. Manual 2-7

Structure Diversion Ditch (1)
Material Soil (2% max. slope)
Page Ref. Manual 2-12

Structure Drainage Ditch (B)
Spacing To be constructed along access
road.
Page Ref. Manual 2-12

Structure Drilling Pit (2)
Material Soil
Page Ref. Manual -----

Structure Cross Drains (C)
Spacing 5%-135' 15%-60'
10%-80' 20%-45'
Page Ref. Manual 2-4

Structure Sediment trap (3)
Material Soil
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.

HAY MEADOWS

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 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 lbs/acre

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

OSTRANDER LAND SURVEYING, INC.
PLAN PREPARED BY Rexford L. Ostrander

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

ADDRESS Rt. 2, Box 375-6
Buckhannon, WV 26201
PHONE NO. 304-472-0817

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

1st. Elks: Perforations: 3938-40 (4 holes) 4166-70(5 holes) 4187-91(8 holes)
 Fracturing: 400 sks. 20/40 sand:500 gal. acid: 450 Bbls. fluid.
 2nd Elks: Perforations: 4589-91(8 holes) 4854-57(6 holes)
 Fracturing:300 sks. 20/40 sand: 345 Bbls. fluid.
 Haverty: Perforations: 5178-80 (4 holes) 5186-88(3 holes) 5230-32 (8 holes)
 Fracturing: 450 sks. 20/40 sand: 450 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe^{XGLS}

$$t=60 + (0.0075 \times 53.35) + 459.7 = 560 \quad X=53.35 \times 560 = 29869 \quad =0.000033 \quad Pf=1550 \times 2.72^{(0.000033)}$$

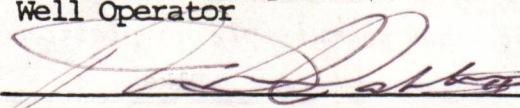
$$(0.660) * 4585) (0.9) = 1550 \times 2.72^{0.09} = 1550 \times 1.09$$

Pf=1690 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
Sand			0	28	
Sandy shale			28	45	
Sand & sandy shale			45	265	2" stream @ 12'
Coal			265	269	
Sandy shale			269	285	3" stream @ 22'
Coal			285	291	
Sandy shale & sand			291	361	6" stream @ 60'
Coal			361	365	
Sandy shale			365	383	3/4" stream @ 110'
Coal			383	386	
Sandy shale			386	690	Gas ck @ 3030 No show
Sandy shale & sand			690	990	
Sandy shale, sand & red rock			990	1180	Gas ck @ 3245 No show
Little lime			1180	1195	
Shale & red rock			1195	1225	
Big Lime			1225	1290	Gas ck @ 4021 No show
Sand			1290	1480	
Gantz			1480	1535	
Dark sand			1535	1635	
Sandy shale			1635	2350	
Sand & sandy shale			2350	3938	
1st Elk			3938	4191	
Sand & shale			4191	4589	
2nd Elk			4589	4857	
Sandy shale			4857	5178	
Haverty			5178	5232	
Sandy shale			5232	5504	
				T..D	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
 Well Operator
 By: 
 Date: 7/11/84

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."



RECEIVED

JUL 13 1984

State of West Virginia

Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

Date July 11, 1984
Operator's Well No. J-981
Farm Velma Skidmore
API No. 47 -001 - 2068

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: 1480 Watershed Raccoon Creek
District: Cove 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 Velma Skidmore

ADDRESS Rt. # 1, Box 298, Moatsville, WV 26405

MINERAL RIGHTS OWNER Same as surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Phillip
Tracy Apt. 24, Forrest Festival
ADDRESS Terrace, Elkins, WV

PERMIT ISSUED 6/1/84

DRILLING COMMENCED 6/9/84

DRILLING COMPLETED 6/16/84

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"	60	0	0 sks
9 5/8			
8 5/8	1555.15	1555.15	340 sks.
7			
5 1/2			
4 1/2	5354.55	5354.55	610 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5178-5232 feet

Depth of completed well 5504 feet Rotary x / Cable Tools

Water strata depth: Fresh 12,22,60 feet; Salt 0 feet

Coal seam depths: 265-69,285-90,361-65,383-86 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5178-5232 feet

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

Combined Final open flow 267 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1550 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
4166-70 4187-91
3938-40
4589-91
4854-57

Second producing formation Elks 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)

NONOV 2068

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

RECEIVED
JUN 13 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J & J Enterprises</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>VELMA SKIDMORE</u>	13			Size of _____
Well No. <u>J-981</u>	11	<u>60</u>		Depth set _____
District <u>COVE</u> County <u>001</u>	8 5/8			Perf. top _____
Drilling commenced <u>6/9/84</u>	6"			Perf. bottom _____
Drilling completed _____ Total depth _____	5 3/16			Perf. top _____
Date shot _____ Depth of shot _____	3			Perf. bottom _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. bottom _____
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY _____			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACK - Rig # 11

Remarks: Had 6" stream of water at 60' - Ran 11" - did not cement - told them they would need to pull 11" when they ran 8 5/8 so that cement would be on good center formation, - Drilling at 386'

6/11/84
DATE

James H. Beal 501
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 14 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
				Kind of Packer
<u>J + J Enterprises</u>	Size			
Address _____	16			
Farm _____	13			
Well No. <u>J-981</u>	10			Size of _____
District _____ County _____	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ 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 _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Rig #11

Remarks: Pit broke loose - They hauled mud out of pit that was leaking, hauled fresh water + dumped in stream

6/12/84
DATE

Russell H. Beale
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 13 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Skidmore</u>	16			Kind of Packer _____
Well No. <u>J-981</u>	13			
District _____ County <u>BARB</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

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 SW. JACK Rig #11

Remarks:

DCG at 2335 #2 pond Dry -

6/14/84

Beall (501)

DATE

DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 13 1984

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

001-
2068
Permit No.

Oil or Gas Well _____
(KIND)

Company J & J

Address _____

Farm SKIDMORE

Well No. J-981

District _____ County 001

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			Kind of Packer _____
16			
13			Size of _____
10			
8 1/4			Depth set _____
6 3/8			
5 3/16			Perf. top _____
3			Perf. bottom _____
2			Perf. top _____
Liners Used			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 S.W JACK Rig #1

Remarks: Dug — lots of water —
dried up pond with TRUCKS

6/13/84
DATE

Beace 501
DISTRICT WELL INSPECTOR

OG-1 RECEIVED JUN 13 1984

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

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

Permit No. 001-2068

Oil or Gas Well (KIND)

Company J & J Address Farm Skidmore Well No. J-981 District County 001 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

Table with 4 columns: CASING AND TUBING, USED IN DRILLING, LEFT IN WELL, PACKERS. Rows include Size (16, 13, 10, 8 1/4, 6 5/8, 5 3/16, 3, 2) and Liners Used.

CASING CEMENTED SIZE No. FT. Date NAME OF SERVICE COMPANY COAL WAS ENCOUNTERED AT FEET INCHES FEET INCHES FEET INCHES

Drillers' Names JACK #11

Remarks: Monitor Pts

6/15/84 DATE

Beall (501) DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 22 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company _____

INSPECTOR (501) RIG REPORT: _____

Address _____

Permit No. 47-001-2068

Farm _____

Well Owner J & J

Well No. _____

Farm V-SKIPMORE No. J-981

District _____

Rig Owner S.W. JACK

Drilling commenced _____

Pusher BEARBY No. #11

Drilling completed _____

Check Location, Road, & Rec Plan _____

Date shot _____ Dep _____

Rig On 4/9/84 Rig off 6/18/84

Initial open flow _____

Total Depth, T. D. 5504

Open flow after tubing _____

1 3/4 Casng 60' ft _____ sac _____

Volume _____

8 5/8 Casng 1555 Ft 340 sac 4

Rock pressure _____ lb

4 1/2 Casng 5354.55 ft 610 sac _____

Oil _____

Casng _____ ft _____ sac _____

Fresh water _____ fe

Water (12'-2") (22'-3") (60'-6")

Salt water _____ fe

Coal (265-269) (285-291) (361-365)
(383-386)

Drillers' Names _____

Remarks: _____

Oil _____

Gas CK Sus @ 41020: No show @ T.D. 5504

no Reading

Pushr BEARBY Insptr MEB.

6/20/84

DATE

M. B. ...

DISTRICT WELL INSPECTOR

FT IN WELL	PACKERS
_____	Kind of Packer _____
_____	Size of _____
_____	Depth set _____
_____	Perf. top _____
_____	Perf. bottom _____
_____	Perf. top _____
_____	Perf. bottom _____

SIZE _____ No. FT. _____ Date _____

FEET _____ INCHES

FEET _____ INCHES

FEET _____ INCHES

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

RECEIVED

JUN 25 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company J & J

Address _____

Farm SKIDMORE

Well No. J-981

District _____ County 001

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 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 JACIE

Remarks: Check pond preparatory to finish

6/21/84

DATE

phreac

DISTRICT WELL INSPECTOR

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

RECEIVED
JUL 17 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>SKIDMORE</u>	16			
Well No. <u>J-981</u>	13			Size of _____
District _____ County <u>001</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

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 GARY MILLER Start to Reclaim

Remarks: Filling pits

7/13/84
DATE

R. G. Reese (501)
DISTRICT WELL INSPECTOR

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

RECEIVED

JUL 27 1984

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

Permit No. 001-2068

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J & J</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>SKIDMORE</u>	13			
Well No. <u># J-981</u>	10			Size of _____
District <u>COVE</u> County <u>BARBOUR</u>	8 1/2			
Drilling commenced <u>6/9/84</u>	6 5/8			Depth set _____
Drilling completed <u>6/18/84</u> Total depth <u>5504</u>	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 _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Pits filled, location graded, - Sealed & Treated

7/25/84
DATE

RG Beall
DISTRICT WELL INSPECTOR

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

Date July 20, 1984
Operator's Well No. J-981
API Well No. 47 - 001 - 2068
State County 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 1480
Watershed Raccoon Creek
Dist. Cove County Barbour Quad Pestoville

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: June 9, 1984

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

Rock Pressure: Well was shut in several days after treatment and pressure was measured

BOTTOM HOLE PRESSURE $P_f = P_{we} \times \frac{1}{XGLS}$ with a spring gauge.

$$t=60 + (0.0075 \times 53.35) + 459.7 = 560 \quad X = 53.35 \times \frac{1}{560} = \frac{1}{29869} = 0.000033 \quad P_f = 1550 \times 2.72^{(0.000033 \times 0.660) \times 4585} (0.9) = 1550 \times 2.72^{0.09} = 1550 \times 1.09$$

AFFIDAVIT

Pf=1690 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 20 day of July, 1984, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20 day of July, 1984.
My ~~COMMISSION~~ expires on the 23 day of January, 1988.
Commission

[NOTARIAL SEAL]

Vicki L. Vanderberg
Notary Public



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

Date July 20, 1984
Operator's Well No. J-981
API Well No. 47 - 001-2068
State County
Previous File No. IF Appl

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 NCPA 103 Category Code N/A
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Richard J. Kline Secretary
Name (Print) 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 1970 (NCPA); for determination that increased production is the result of enhanced recovery technology under Section 108 of (NCPA); 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 (NCPA). 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.

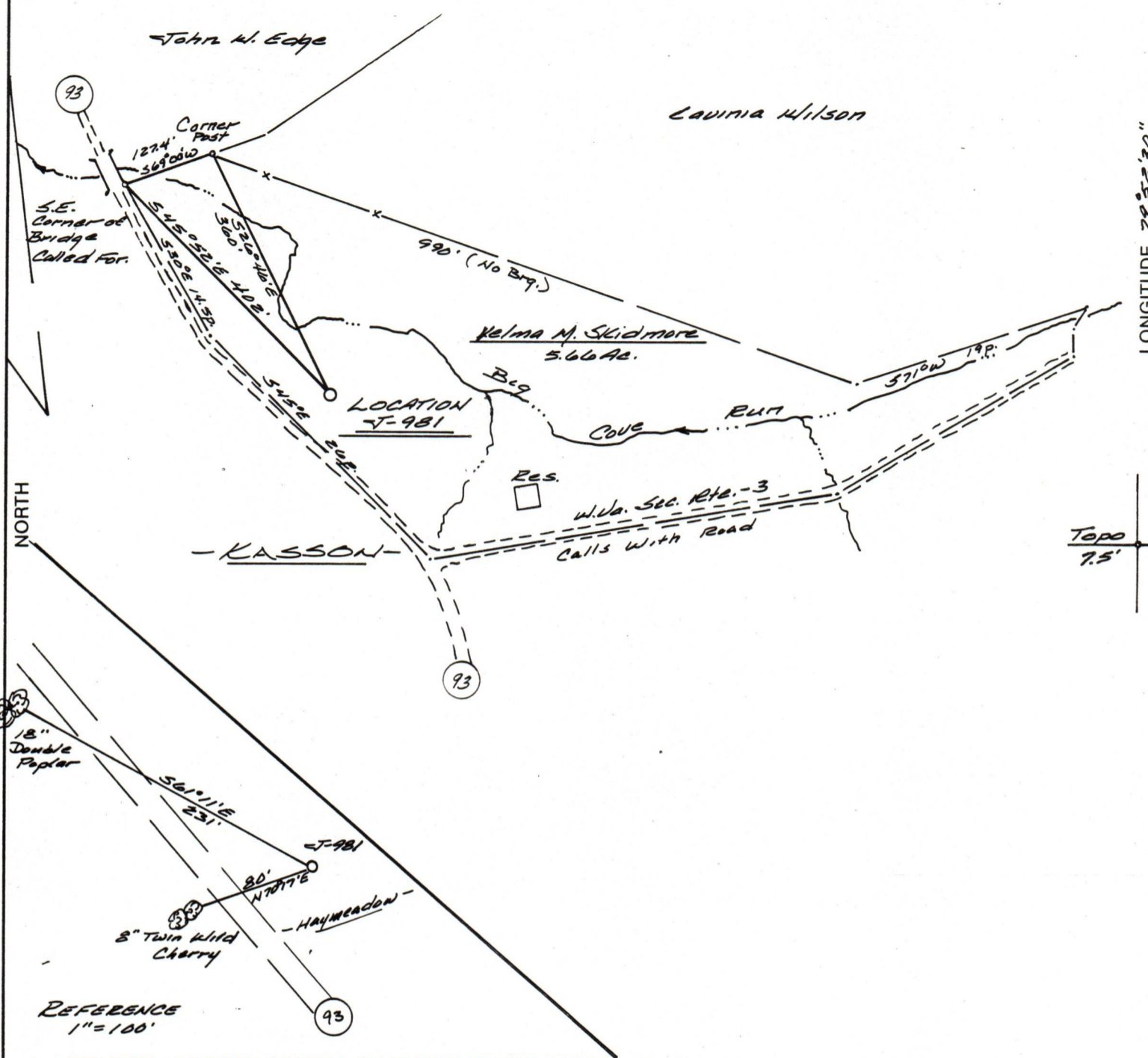
Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JUL 30 1984

Date received by _____
Jurisdictional Agency

[Signature]
By _____
Title _____



NORTH

Topo 7.5'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 346.01
 DRAWING NO. 84-51
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION U.S. - 1476'
West 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. Astrachan
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 19 May, 19 84
 OPERATOR'S WELL NO. T-981
 API WELL NO.

47 - 001 - 2068
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1480' WATER SHED Raccoon Creek
 DISTRICT Cove COUNTY Barbour
 QUADRANGLE Nastorville

SURFACE OWNER Velma M. Skidmore ACREAGE 5.66
 OIL & GAS ROYALTY OWNER Velma M. Skidmore LEASE ACREAGE 5.66
 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 Haverly ESTIMATED DEPTH 5300'
 WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT