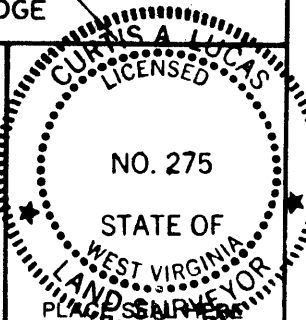


LOCATION REFERENCES
 N89°40'E 154' 6" Poplar
 N30°28'E 170' 10" Hickory

FILE NO. 603
 MAP N57 SQS N3,4 W4,5
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Triangulation Station on Middle Ridge - Elev. = 1540'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE Oct. 4, 19 84
 FARM IRENE RIELLY NO. 13
 API WELL NO. _____

47 - 103 - 1315-F
 STATE COUNTY PERMIT

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ CORE TEST X
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1005' WATER SHED FLUHARTY FORK OF PINEY FORK
 DISTRICT GREEN COUNTY WETZEL
 QUADRANGLE CENTERPOINT 7.5' 0.515 NW

SURFACE OWNER DALLISON TIMBERLANDS INC. ACREAGE 191 Ac.
 OIL & GAS ROYALTY OWNER THOM. F. NEWMAN (1/2 Int.) LEASE ACREAGE 191 Ac.
 LEASE NO. 15634-50

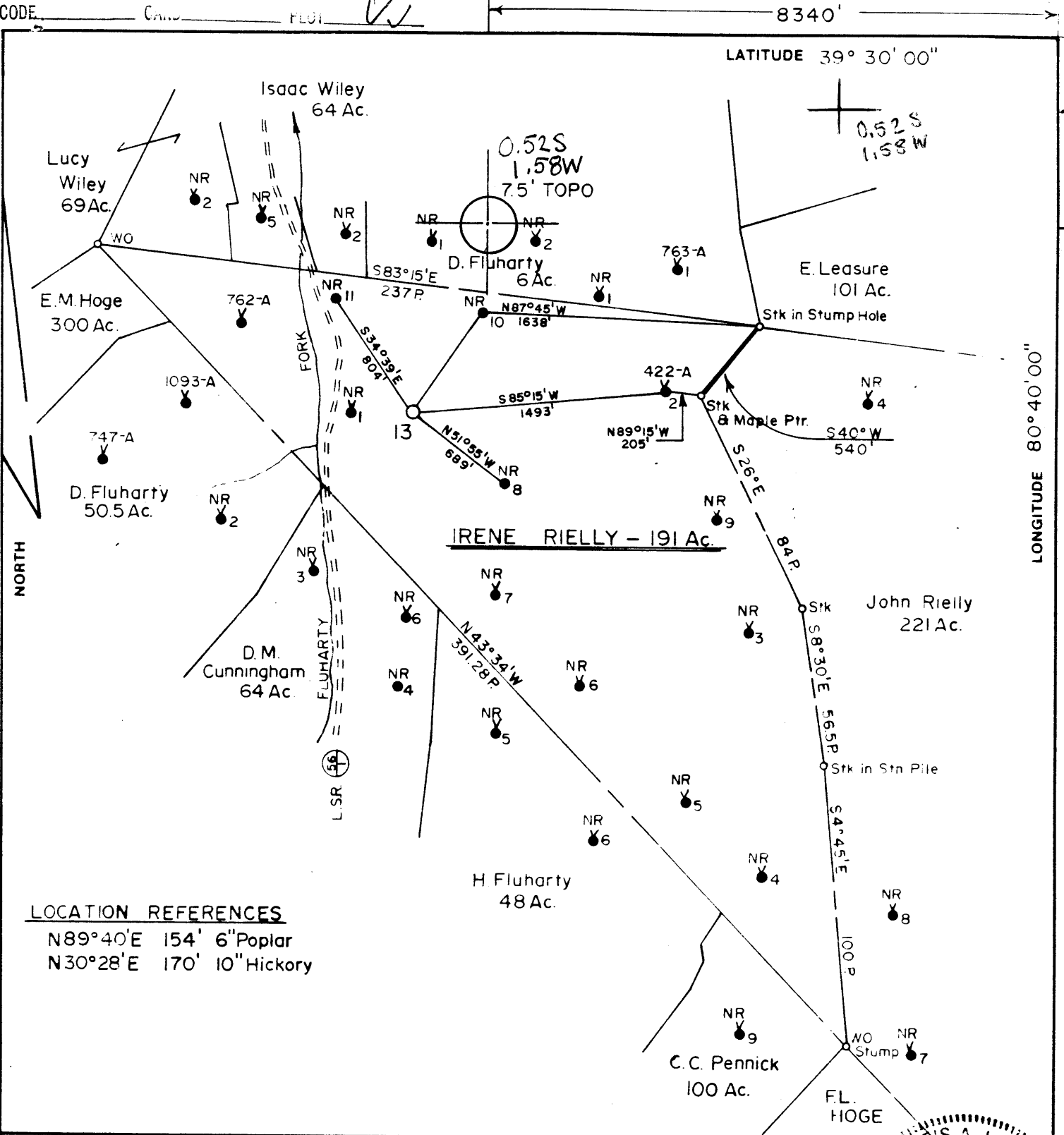
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION GORDON ESTIMATED DEPTH 2880'
 WELL OPERATOR PENNZOIL COMPANY 673 DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

FORM IV-6 (8-78)

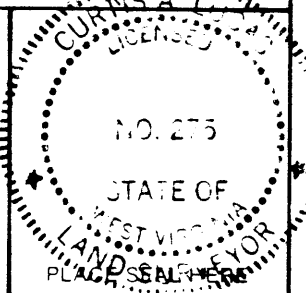
NET 1315-FRAC



LOCATION REFERENCES
 N89°40'E 154' 6" Poplar
 N30°28'E 170' 10" Hickory

FILE NO 603
 MAP N57 Sqs N3,4 W4,5
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Triangulation Station on Middle Ridge - Elev. = 1540'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

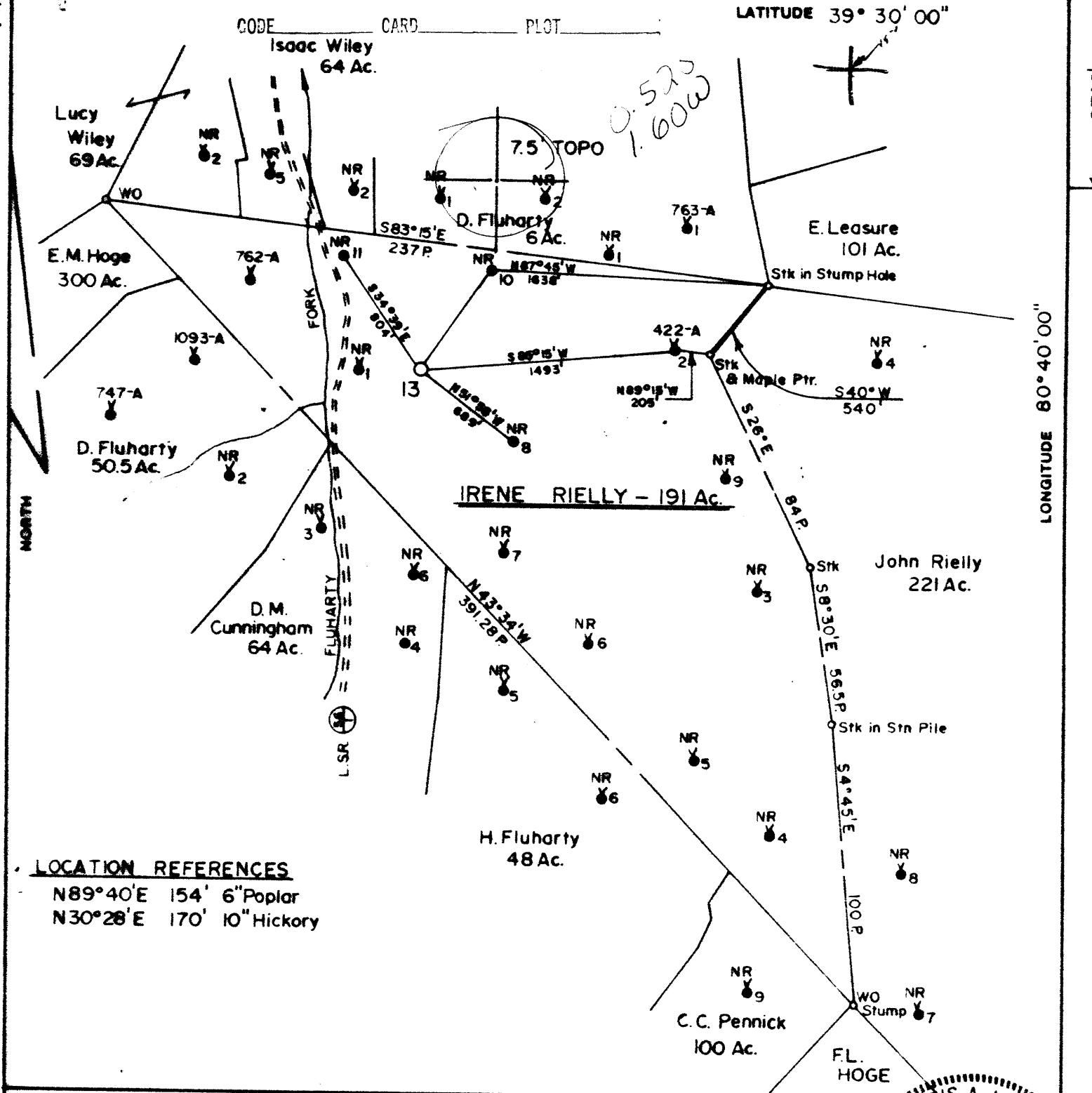
DATE Oct. 4, 19 84
 FARM IRENE RIELLY NO 13
 API WELL NO 47 - 103 - 1315

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ CORE TEST X
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1005' WATER SHED FLUHARTY FORK OF PINEY FORK
 DISTRICT GREEN 5 COUNTY WETZEL
 QUADRANGLE CENTERPOINT 7.5' 286 CENTERPOINT 022 NW1
 SURFACE OWNER DALLISON TIMBERLANDS INC. ACREAGE 191 AC.
 OIL & GAS ROYALTY OWNER THOM. F. NEWMAN (1/2 Int.) LEASE ACREAGE 191 AC.
 LEASE NO. 15634-50

PROPOSED WORK: DRILL X 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 ___

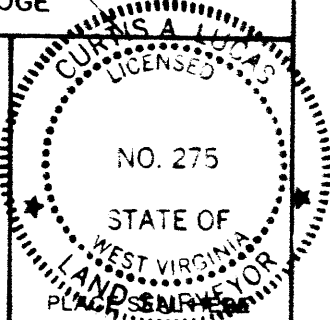
TARGET FORMATION GORDON ESTIMATED DEPTH 2880'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS 673 P.O. BOX 1588 ADDRESS P O BOX 1588
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101



LOCATION REFERENCES
 N89°40'E 154' 6" Poplar
 N30°28'E 170' 10" Hickory

FILE NO. 603
 MAP N57 SQS N3,4 W4,5
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Triangulation Station on Middle Ridge - Elev. = 1540'

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) Curtis A. Lucas
 CURTIS A. LUCAS LLS 275



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE Oct. 4, 19 84
 FARM IRENE RIELLY NO. 13
 API WELL NO.

47 - 103 - 1315-B
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ CORE TEST X
 (IF "GAS.") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1005' WATER SHED FLUHARTY FORK OF PINEY FORK
 DISTRICT GREEN S COUNTY WETZEL
 QUADRANGLE CENTERPOINT 7.5' 286 022 NW,
 SURFACE OWNER DALLISON TIMBERLANDS INC. ACREAGE 191 AC.
 OIL & GAS ROYALTY OWNER THOM. F. NEWMAN (1/2 Int.) LEASE ACREAGE 191 AC.
 LEASE NO. 15634-50 F
 PROPOSED WORK: DRILL X 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 GORDON ESTIMATED DEPTH 2880'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

owwo. 6 to Jacksonburg-Stringtown (95) (one test - mineral rights)

WET 1315

07 0 8 1995

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND Operator Well No.: IRENE REILLY#13

LOCATION: Elevation: 1,005.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 2740 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 8340 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P O BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 12/14/94
Well work Commenced: 10/03/95
Well work Completed: 10/03/95
Verbal Plugging
Permission granted on: -
Rotary Cable Rig
Total Depth (feet) 2990'
Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	893'	893'	Existing Casing
4-1/2"	2976'	2976'	Existing Casing

OPEN FLOW DATA

*Water injection well

Producing formation Gordon Pay zone depth (ft) 2881-2990
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
Final open flow * MCF/d Final open flow * Bbl/d
Time of open flow between initial and final tests * Hours
Static rock Pressure * psig (surface pressure) after * Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY
By: *[Signature]*
Date: 11/2/95

NOV 13 1995



WR-35

MAY 14 1986

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date May 12, 1986
Operator's
Well No. 13
Farm Irene Rielly
API No. 47 - 103 - 1315

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

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

LOCATION: Elevation: 1005 Watershed Fluharty Fork of Piney Fork
District: Greene County Wetzel Quadrangle Centerpoint 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Dallison Timberlands, Inc.
ADDRESS Rt. 1, Folson, W.Va. 26348
MINERAL RIGHTS OWNER Thomas F. Newman
ADDRESS Rt. 3, Box 225, Weston, WV 26452
OIL AND GAS INSPECTOR FOR THIS WORK Don
Ellis ADDRESS 2604 Crab Apple Lane, Fairmont WV

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	885.55	885.55	Cement to surface
7			
5 1/2			
4 1/2	2984.71	2984.71	350 sks.
3			
2			
Liners used			

PERMIT ISSUED 1-28-86
DRILLING COMMENCED _____
DRILLING COMPLETED Frac: 2-12-86

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

GEOLOGICAL TARGET FORMATION Gordon Depth 2881 feet
Depth of completed well 2990 feet Rotary / Cable Tools
Water strata depth: Fresh n/a feet; Salt n/a feet
Coal seam depths: _____ Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Gordon Sandstone Pay zone depth 2911-2915 feet
Gas: Initial open flow 150 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 94 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 380 psig (surface measurement) after 17 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

MAY 19 1986

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

Acidized: 2/12/86

Gordon w/150 gl. 15% HCL, 750 gl. reg. HF

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and c
See previously submitted well record?					
Depth = 2990'					
originally a core test				w/ 1984, fracid	later for gas prod.

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Larson
Date: 5-13-86

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."

Date: May 12, 1986

Operator's Well No. I. Rielly #13

API Well No. 47 - 103 - 1315 State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

WELL OPERATOR Pennzoil Company
Address P.O. Box 1588
Parkersburg, W.Va. 26102

DESIGNATED AGENT James A. Crews
Address P.O. Box 1588
Parkersburg, WV

GEOLOGICAL TARGET FORMATION: Gordon Depth _____
Perforation Interval 2911-2915

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE	TIME	END OF TEST-DATE	TIME	DURATION OF TEST
<u>12-13-86</u>	<u>10:00 A.M.</u>	<u>12-14-86</u>	<u>2:00 P.M.</u>	<u>2 Days</u>
TUBING PRESSURE	CASING PRESSURE	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
OIL PRODUCTION DURING TEST	GAS PRODUCTION DURING TEST		WATER PRODUCTION DURING TEST & SALINITY	
<u>15 gal.</u>	<u>1st Test - 64,000</u> <u>2nd Test - 94,000</u>		<u>46 bbl. bbls.</u>	
OIL GRAVITY	PRODUCING METHOD (flowing, pumping, gas lift, etc.)			
<u>?</u>	<u>*API</u> <u>flowing</u>			

GAS PRODUCTION		
MEASUREMENT METHOD	POSITIVE CHOKE	
FLANG. IAP <input checked="" type="checkbox"/>	PIPE IAP <input type="checkbox"/>	L-10 <input type="checkbox"/>
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.
<u>1"</u>	<u>2"</u>	<u>?</u>
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIA. - IN.
DIFFERENTIAL	STATIC	GAS GRAVITY (AIR=1.0)
GAS GRAVITY (AIR=1.0)	FLOWING TEMPERATURE	MEASURED <u>0.704</u> ESTIMATED
24 HOUR COEFFICIENT.	GAS TEMPERATURE _____ °F	
	24 HOUR COEFFICIENT	
	PRESSURE - _____ psia	

TEST RESULTS			
DAILY OIL	DAILY WATER	DAILY GAS	GAS-OIL RATIO
<u>0</u> bbls.	<u>0</u> bbls.	<u>94,000</u> Mcf.	<u>0</u> SCF/STB

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

MAY 14 1986

Pennzoil Company
Well Operator
By: Curtis A. Lewis
Its: Supervisor, Engineering Surveys



IV-35
(Rev 8-81)

Date December 12, 1984
 Operator's Well No. 13
 Farm Irene Rielly
 API No. 47-103-1315

State of West Virginia
 Department of Mines
 Oil and Gas Division

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

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

LOCATION: Elevation: 1005 Watershed Fluharty Fork of Piney Fork
 District: Greene County Wetzel Quadrangle Centerpoint 7.5'

COMPANY Pennzoil Company
 ADDRESS P.O.Box 1588, Parkersburg, W.Va. 26102
 DESIGNATED AGENT James A. Crews
 ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102
 SURFACE OWNER Dallison Timberlands, Inc.
 ADDRESS Rt. 1, Falsam, W.Va. 26348
 MINERAL RIGHTS OWNER Thomas F. Newman
 ADDRESS Rt. 3, Box 225, Weston, W.Va. 26452
 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
 ADDRESS General Delivery, Middlebourne, W.Va.
 PERMIT ISSUED 10-29-84
 DRILLING COMMENCED 11-26-84
 DRILLING COMPLETED 12-2-84

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	893	893	380 sks.
7			
5 1/2			
4 1/2	2976	2976	350 sks.
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Gordon Depth 2990 feet
 Depth of completed well 2990 feet Rotary X / Cable Tools _____
 Water strata depth: Fresh 250-304 feet; Salt 1811-1842 feet
 Coal seam depths: 781-790 Is coal being mined in the area? No

OPEN FLOW DATA
 Producing formation Exploratory Core Test Well Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d 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
 (If applicable due to multiple completion--)
 Second producing formation _____ Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

Rec'd from Pruz
 03/04/1999

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Silt & Sand			0	248	
Sand			248	304	
Shale			304	496	
Sand			496	696	
Silt & Sand			696	908	
Sand			908	943	
Siltstone			943	1170	
Sand & Silt			1170	1300	
Silt & Shale			1300	1331	
Shale, Sand, Siltstone			1331	1811	
Maxton			1811	1840	
Siltstone			1840	1995	
Blue Monday			1995	2008	
Pencil Cave			2008	2022	
Sand			2022	2046	
Big Lime			2046	2118	
Loyalhanna			2118	2190	
Pocono Big Injun			2190	2296	
Pocono Shale			2296	2858	
Gordon Stray			2858	2881	
Gordon S.S.			2881	2990	
Total Depth				2990	

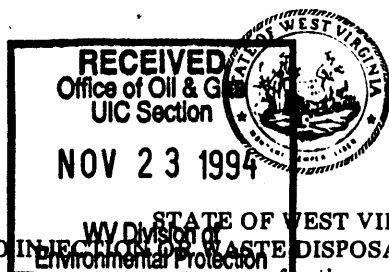
(Attach separate sheets as necessary)

Pennzoil Company
 Well Operator
 By: *Guertin A. Leman*
 Date: 12-12-84

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."

10/91

20099



STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 For the
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- 1) Date: November 17, 19 94
- 2) Operator's Well No. IRENE REILLY #13
- 3) SIC Code _____
- 4) API Well NO. 47 - 103 - 1315-FRAC
 State County Permit
- 5) UIC Permit No. _____

Issued 12/14/94
Expires 12/14/96

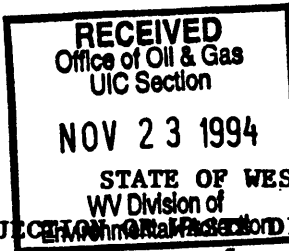
- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 1005' (S) Watershed: Piney Fork 286
 District: Green County: Wetzel Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Company 4670 9) DESIGNATED AGENT James A. Crews
 Address P. O. Box 5519 Address P. O. Box 5519
 Vienna, WV 26105 Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood
 Address Route 2, Box 135
 Salem, WV 26426
- 11) DRILLING CONTRACTOR:
 Name _____
 Address _____
- 12) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation _____ / Convert /
 Other physical change in well (specify) _____ 2890
- 13) GEOLOGICAL TARGET FORMATION, Gordon 419 Depth 2881 feet (top) to 2990 feet (bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2990 ft.
- 15) Approximate water strata depths; Fresh, 250-304 feet; salt, 1811-1842 feet.
- 16) Approximate coal seam depths: 781-790'
- 17) Is coal being mined in the area? Yes ___ / No /
- 18) Virgin reservoir pressure in target formation 1400 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 bbls. Bottom hole pressure 2332
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Freshwater, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge and/or coalbed filters
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) 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									Kinds
Fresh water	8-5/8	Existing Casing				893'	893'		
Coal									Sizes
Intermediate									
Production	4-1/2	Existing casing				2976'	2976'		Depths set
Tubing									
Liners									Perforations: Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from Irene Reilly et.al.
 by deed _____ / lease / other contract _____ / dated September 23, ~~199~~ 1895 of record in the
 Wetzel County Clerk's office in Lease Book 47 at page 193

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



1) Date November 17, 1994
Operator's _____
2) Well No. IRENE REILLY #13
3) SIC Code _____
4) API Well No. 47 - 103 - 1315 -
State County Permit

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- 5) SURFACE OWNER(S) OF RECORD TO BE SERVED
- 7 (i) COAL OPERATOR N/A
Address _____
- (i) Name WV Public Land Corporation
Address Building #3, Room 643
1900 Kanawha Blvd. E.
- 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
- (ii) Name Charleston, WV 25305
Address _____
WV Department of Natural Resources
- 7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____
- (iii) Name 1304 Goose Run Road
Address Fairmont, WV 26554
Attn: Gary Foster

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

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-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 date proposed for the first injection or waste disposal is _____, 19____.

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 WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B 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 Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-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 Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Pennzoil Products Company
Well Operator
By [Signature] Timothy P. Rous
Its Supervisor, Surveying/Mapping
Telephone (304) 422-6565

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1315-FRAC

December 14th. 19 94
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 (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires 12-14-96 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>[Signature]</i>	Casing: <i>[Signature]</i>	Fee: CK# 31809
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[Signature]
CHIEF, OFFICE OF OIL AND GAS

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

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

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		" "	
Total depth reached		" "	
Well Record received		" "	
Reclamation completed		" "	
OTHER INSPECTIONS			

Reason: _____

Reason: _____

RECEIVED
JAN 14 1988



1) Date: January 10, 1986
 2) Operator's Well No. Irene Rielly No. 13 W
 3) API Well No. 47 State 103 County 1315-F Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas / Core Test X /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1005 Watershed: Fluharty Fork of Piney Fork
 District: Greene 673 County: Wetzel Quadrangle: Centerpoint 7.5'
 6) WELL OPERATOR Pennzoil Company CODE: 3745-0 7) DESIGNATED AGENT James A. Crews
 Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, W.Va. 26102 Parkersburg, W.Va.
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther DON ELLIS
 Address General Delivery 2604 Crab Apple Lane Address _____
Middlebourne, WV 26149 FARMHOUT, WV 26554
 9) DRILLING CONTRACTOR: Name _____ Address _____
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Gordon 419
 12) Estimated depth of completed well, 2990 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: 755 Is coal being mined in the area? Yes / No X /

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										Kinds
Fresh water										
Coal	8-5/8	H40	20.0	X		893	893	380 sks	} EXISTING	Sizes
Intermediate										Depths set
Production	4-1/2	K55	9.5	X		2976	2976	350 sks		Perforations:
Tubing										Top Bottom
Lin...										

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1315-F W

January 28 19 86
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 28, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>RLB</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>495</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas

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

ok m



1) Date: October 5, 19 84
 2) Operator's Well No. Irene Rielly No. 13
 3) API Well No. 47 - 103 - 1315
 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 / Core Test X /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1005 Watershed: Fluharty Fork of Piney Fork
 District: Green County: Wetzel Quadrangle: Centerpoint 7.5'
 6) WELL OPERATOR Pennzoil Company 7) DESIGNATED AGENT James A. Crews
 Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, W. Va. 26102 Parkersburg, W. Va.
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name _____
 Address General Delivery Address _____
Middlebourne, W. Va. 26149
 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, Gordon
 12) Estimated depth of completed well, 2880 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: 755 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									Kinds
Fresh water									
Coal	<u>8-5/8</u>	<u>H40</u>	<u>20.0</u>	<input checked="" type="checkbox"/>		<u>870</u>	<u>870</u>	<u>Cement to surface</u>	<u>NEAT</u>
Intermediate									
Production	<u>4-1/2</u>	<u>K55</u>	<u>9.5</u>	<input checked="" type="checkbox"/>		<u>2880</u>	<u>2880</u>	<u>100 sks.</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1315 Date October 29, 1984

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 October 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>112</u>	<u>MLT</u>	<u>TS</u>	<u>TS</u>	<u>18083</u>

Margaret J. Hasse
 Administrator, Office of Oil and Gas

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

File

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