

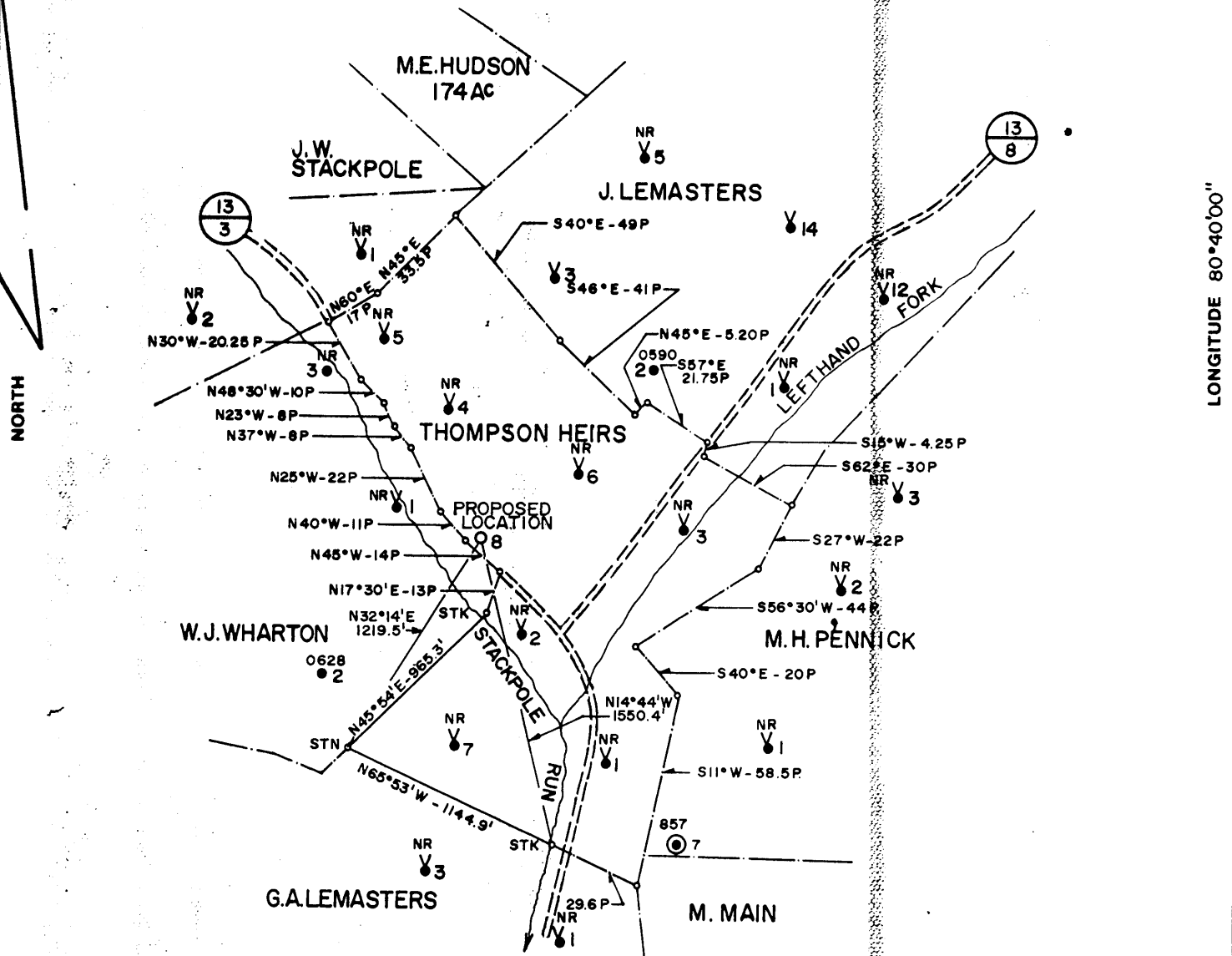
MU 11-30-85

9225'

LATITUDE 39°27'30"

LONGITUDE 80°40'00"

7.5 TOPO
0.185
1.740
R.M. STACKPOLE



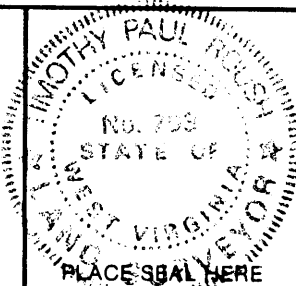
LOCATION REFERENCES
 S74°25'E 122.4' 10" PINE
 N46°32'E 106.3' 8" B.O.
 N51°17'W 184.3' 16" B.O.

3.06 S
1.76 W

FILE NO. 1750
 MAP N47 sqs W5-NI
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION F.M. LEMASTER NO. 9
 ELEV. 927.52'

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) Timothy P. Proush
 TIMOTHY PROUSH LLS 793



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE NOVEMBER 8, 1985
 FARM THOMPSON HEIRS NO. 8
 API WELL NO.

47 - 095 - 1124
 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 908' WATER SHED STACKPOLE RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTERPOINT 7.5' - 15' NW

SURFACE OWNER CARL E. WALTERS ACREAGE 37.82 AC.
 OIL & GAS ROYALTY OWNER DARRELL STACKPOLE LEASE ACREAGE 90.5 AC.
 LEASE NO. 47243-00

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 GORDAN ESTIMATED DEPTH 2782' 8-0 Jacksonville - AUG 6 1990
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS Stringtown (095)
 ADDRESS P.O. BOX 1588 ADDRESS P.O. BOX 1588
613 PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

FORM IV-6 (8-78)

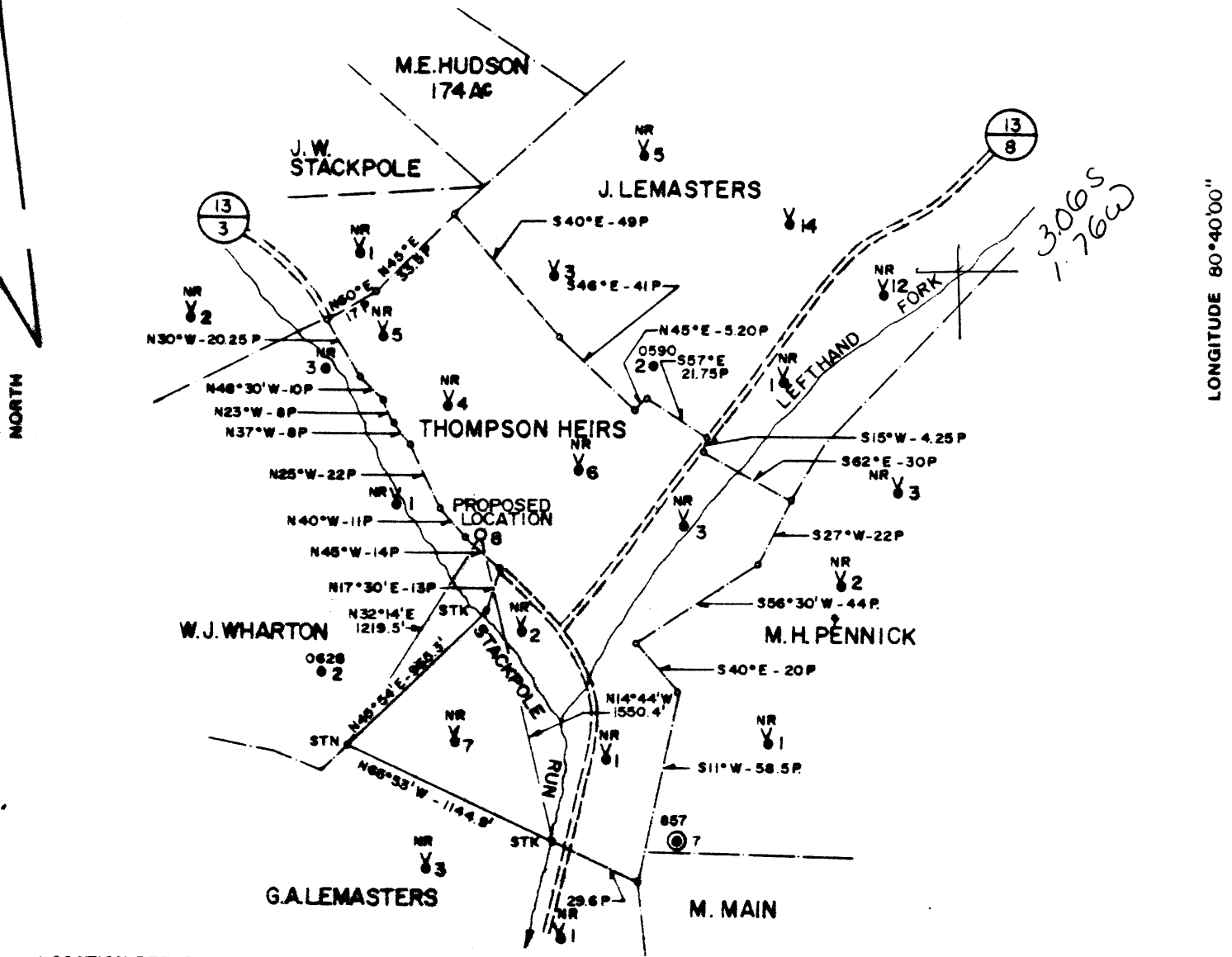
HALL

TYLER 1124



0.185
1.76W

R.M. STACKPOLE



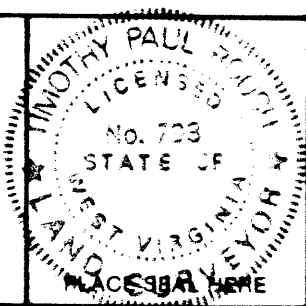
NORTH

LONGITUDE 80°40'00"

LOCATION REFERENCES
S74°25'E 122.4' 10" PINE
N46°32'E 106.3' 8" B.O.
N51°17' W 184.3' 16" B.O.

FILE NO. 1750
MAP N47 SQS W5-N1
SCALE 1"=800'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION F.M. LEMASTER NO. 9
ELEV. 927.52'

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) Timothy P. Proush
TIMOTHY P. PROUSH LLS 793



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE NOVEMBER 8, 1985
FARM THOMPSON HEIRS NO. 8
API WELL NO.

47 - 095 - 1124
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 908' WATER SHED STACKPOLE RUN
DISTRICT McELROY 5 COUNTY TYLER

QUADRANGLE CENTERPOINT 7.5' 286 022 NW1

SURFACE OWNER CARL E. WALTERS ACREAGE 37.82 AC.

OIL & GAS ROYALTY OWNER DARRELL STACKPOLE LEASE ACREAGE 20.5 AC.

LEASE NO. 47243-00

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 GORDAN ESTIMATED DEPTH 2782'

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

NOV 25 1985

FORM IV-B (8-78)

W. T. HALL

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

APR 15 91
Permitting
Oil and Gas Section

Well Operator's Report of Well Work

Farm name: WALTERS, CARL E. Operator Well No.: THOMPSON HRS 8
LOCATION: Elevation: 908.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 975 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 9225 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: GLEN P. ROBINSON
Permit Issued: 07/30/90
Well work Commenced: 10-25-90
Well work Completed: 11-14-90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2880
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
SEE ORIGINAL WR-35			

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2760-2822
 Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/d
 Final open flow -0- MCF/d Final open flow -0- 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

* Liquid injection well

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: Timothy P. Roush
Date: April 17, 1991

APR 19 1991

Stimulation

Perforated Gordon: 2788-2798 (10 holes).

Treated w/250 gal. reg. HF acid, 294 Bbls. gelled water and 1500# 80/100 and 3500# of 20/40 sand.

Well Log

See original WR-35.

20801

FILE COPY
RECEIVED
Energy
JUN 13 90
ing
Section



1) Date: June 12, 19 90
2) Operator's Well No. THOMPSON HRS. NO. 8
3) SIC Code
4) API Well NO. 47 - 095 - 1124-LI
State County Permit
5) UIC Permit No. UIC2R09501AP

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Issued 7/30/90
Approved 7/30/92

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 908' Watershed: Stackpole Run 286
District: McElroy (5) County: Tyler Quadrangle: Center Point 7.5'
- 8) WELL OPERATOR Pennzoil Products Co. 37450
Address P. O. Box 5519
Vienna, W. Va. 26105-5519
- 9) DESIGNATED AGENT James A. Crews
Address P.O. Box 5519
Vienna, W. Va. 26105-5519
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Glen P. Robinson
Address Rt. #1, #6 Mt. Pleasant Est.
Mineral Wells, W. Va. 26150
- 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) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 2760 feet(top) to 2822 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2859 ft.
- 15) Approximate water strata depths; Fresh, N/A feet; salt, N/A feet.
- 16) Approximate coal seam depths: N/A
- 17) Is coal being mined in the area? Yes _____ / No
- 18) Virgin reservoir pressure in target formation 1260 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 2500 psi _____ psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bbl/hr Bottom hole pressure 2332 psi
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh/produced water
treated w/bactericides and other chemicals as is necessary to maintain water quality.
- 22) FILTERS (IF ANY): Cartridge and/or coal bed
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

102802

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			
Conductor								
Fresh water	8-5/8"	H-40	24#			806'	806'	Existing Csg. 350 SCS Kinds
Coal								Sizes
Intermediate								
Production	4-1/2"	J-55	11.6#			2865'	2865'	Existing Csg. 225 SCS Depths set
Tubing								
Liners								Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from C. F. Beck
by deed _____ / lease / other contract _____ / dated _____, 19____ of record in the
Tyler County Clerk's office in Lease Book 218 at page 36

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

RECEIVED
Division of Energy

JUN 13 90

- 1) Date June 12, 1990
- Operator's _____
- 2) Well No. THOMPSON HRS. NO. 8
- 3) SIC Code _____
- 4) API Well No. 47 - 095 - 1124-Z
State County Permit

tion

STATE OF WEST VIRGINIA

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

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- 6) SURFACE OWNER(S) OF RECORD TO BE SERVED
 - (i) Name Carl E. Walters
Address Alvy, W. Va. 26322
 - (ii) Name Jerry Walters
Address Alvy, W. Va. 26322
 - (iii) Name _____
Address _____
- 7 (i) COAL OPERATOR
Address _____
- 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
- 7 (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 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 Timothy P. Roush Timothy P. Roush

Its Supervisor, Surveying/Mapping

Telephone 304-422-6565

RECEIVED
NOV 14 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



1) Date: November 8, 1985
2) Operator's Well No. Thompson Hrs. No. 8
3) API Well No. 47-095-1124
State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, 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: 908' Watershed: Stackpole Run
District: McElroy 673 County: Tyler Quadrangle: Centerpoint 7.5'
- 6) WELL OPERATOR Pennzoil Company CODE: 37450 7) DESIGNATED AGENT James A. Crews
Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, West Virginia 26102 Parkersburg, W. Va.
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
Address General Delivery
Middlebourne, W. Va. 26149
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 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 419
- 12) Estimated depth of completed well, 2882 feet
13) Approximate strata depths: Fresh, 520 feet; salt, 1520 feet.
14) Approximate coal seam depths: 708' 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									
Fresh water	8-5/8	H-40	24#	X		758	758	Cement to surface	Kinds <u>by rule</u> Sizes <u>15.05</u>
Coal									
Intermediate									
Production	4-1/2	J-55	11.60#	X		2882	2882	350 sks.	Depths set <u>by rule 15.01</u>
Tubing								50/50 poz	perforation <u>by rule 15.01</u>
Lin...									Top _____ Bottom _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1124

November 21 1985
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 November 21, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>K-B</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>0217</u>	WPCP: <u>MU</u>	S&E: <u>MU</u>	Other: _____
-------------------------------------------	-------------------	-----------------	-------------------	------------------	-----------------	----------------	--------------

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

John E. Johnson by Margaret L. Has
Director, Division of Oil and Gas
File

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