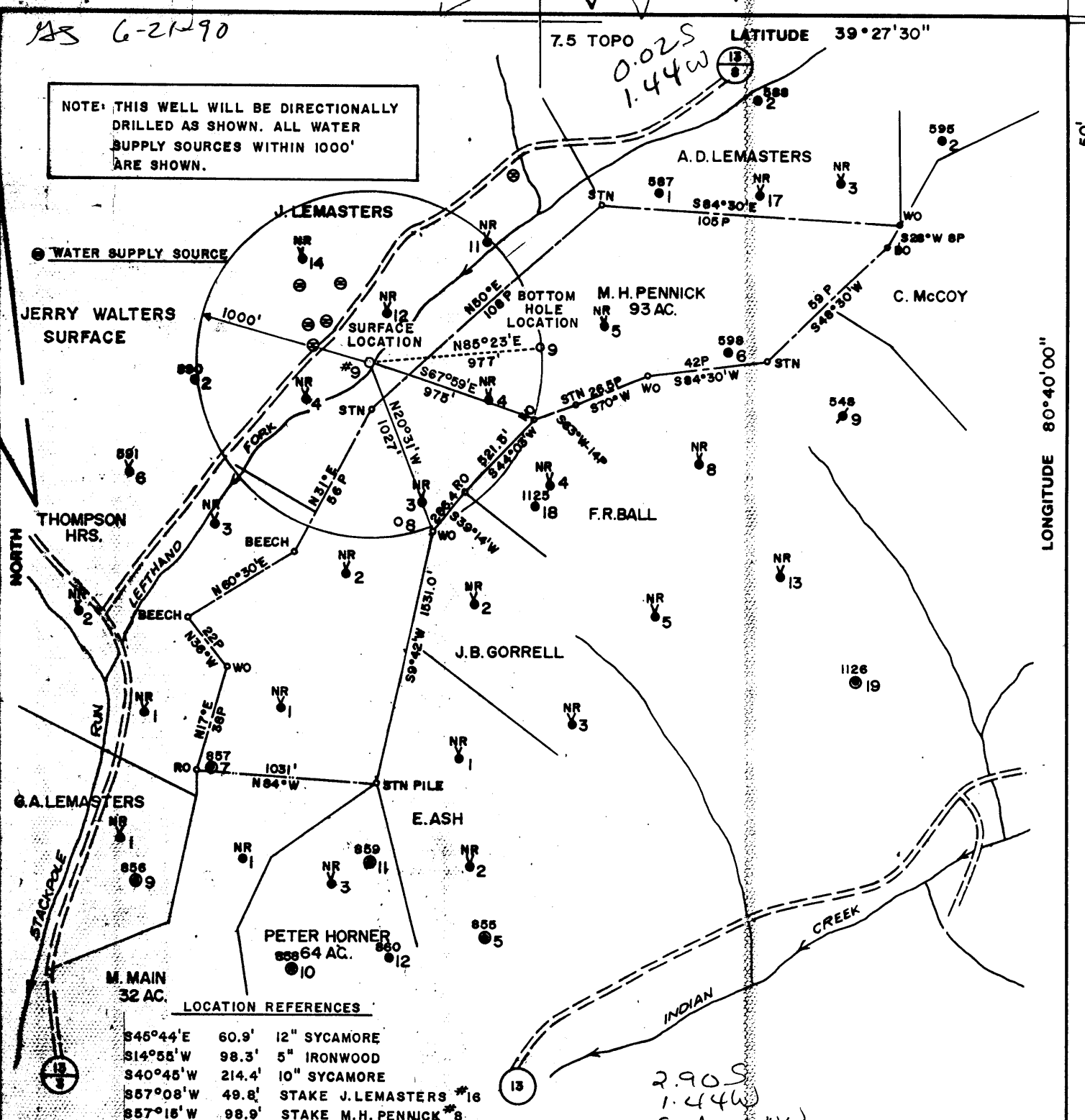


85 G-21490

7.550 TOPO 0.025 1.44w LATITUDE 39°27'30"

NOTE: THIS WELL WILL BE DIRECTIONALLY DRILLED AS SHOWN. ALL WATER SUPPLY SOURCES WITHIN 1000' ARE SHOWN.

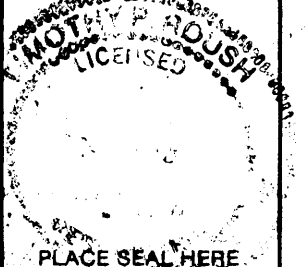


LOCATION REFERENCES

S46°44'E	60.9'	12" SYCAMORE
S14°58'W	98.3'	5" IRONWOOD
S40°45'W	214.4'	10" SYCAMORE
S57°08'W	49.8'	STAKE J. LEMASTERS #16
S57°18'W	98.9'	STAKE M.H. PENNICK #8

FILE NO. 1699
 MAP N47 SQS N1 W4
 SCALE 1"=800
 MINIMUM DEGREE OF ACCURACY 1 IN 200'
 PROVEN SOURCE OF ELEVATION F.R. BALL WELL NO.18 = 1093'

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. Roush*
 TIMOTHY P. ROUSH P.S. 793



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 31 1986
 FARM M.H. PENNICK NO. 9-REV
 API WELL NO.

47 - 095 - 1411-47
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 854' WATER SHED LEFTHAND FORK
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5'
 SURFACE OWNER JERRY WALTERS ACREAGE 88 AC
 OIL & GAS ROYALTY OWNER PENNZOIL COMPANY LEASE ACREAGE 93 AC.
 LEASE NO. RG-2165-00
 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 2,950'
 WELL OPERATOR PENNZOIL PRODUCTS CO. 673 DESIGNATED AGENT JAMES A. CREW
 ADDRESS P.O. BOX 5519 ADDRESS P.O. BOX 5519 VIENNA, WV 26105 VIENNA, WV 26105

JUL 27 1990

8-0 Jacksonburg-Stringtown (095)

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

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

Well Operator's Report of Well Work

Farm name: WALTERS, JERRY Operator Well No.: M.H. PENNICK 9

LOCATION: Elevation: 854.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 50 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7550 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: 07/24/90
Well work Commenced: 8-16-90
Well work Completed: 11-14-90
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3010
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	204.82	204.82	160 Sks.
4-1/2	2980.95	2980.95	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2911-2954
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 N/A 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

* Not tested - 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 Timothy P. Roush
Date: April 11, 1991

APR 19 1991

Stimulation

Perforated: Gordon 2920-2930 - 10 hles
Treated w/300 gals. reg. HF acid, 199 Bbls. gelled water
and 1500# 80/100 & 500# 20/40 sand.

Well Log

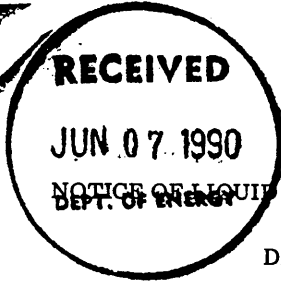
Sand & Shale	00-314
Sand	314-330
Sand & Shale	330-402
Sand	402-424
Sand & Shale	424-570
Shale	570-682
Sand	682-706
Shale	706-739
Sand	739-788
Shale	788-1108
Sand	1108-1126
Shale	1126-1163
Sand	1163-1180
Shale	1180-1330
Sand & Shale	1330-1404
Sand	1404-1464
Shale	1464-1476
Sand	1476-1496
Shale	1496-1594
Sand	1594-1610
Shale	1610-1640
Sand	1640-1670
Sand & Shale	1670-1816
Shale	1816-1852
Sand	1852-1888
Shale	1888-1982
Little Lime	1982-1998
Shale	1998-2023
Big Lime	2023-2130
Big Injun	2130-2294
Shale	2294-2911
Gordon	2911-2954
Shale	2954-3010
T.D.	3010'

10764

7/85

*Issued 7/24/90
Expires 7/24/92*

- 1) Date: June 4, 19 90
 2) Operator's Well No. M. H. PENNICK NO. 9
 3) SIC Code _____
 4) API Well NO. 47 - 095 - 1411-LI
State County Permit
 5) UIC Permit No. UIC2R09501AP *141*



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

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
 7) LOCATION: Elevation: 854' / Watershed: Left Hand Fork *286*
 District: McElroy (5) / County: Tyler / Quadrangle: Center Point 7.5'
 8) WELL OPERATOR Pennzoil Products Company 37450 9) DESIGNATED AGENT James A. Crews
 Address P.O. Box 5519 / Address P.O. Box 5519
Vienna, W. Va. 26105-5519 / 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 2739 feet(top) to 2749 feet(bottom)
 14) Estimated depth of completed well, (or actual depth of existing well) 2950 ft.
 15) Approximate water strata depths; Fresh, 77 feet; salt, 250 feet.
 16) Approximate coal seam depths: _____
 17) Is coal being mined in the area? Yes _____ / No
 18) Virgin reservoir pressure in target formation 80 psig. Source Estimated
 19) Estimated reservoir fracture pressure 3500 (Bottom Hole) psig (BHFP)
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 20.8 Bbls. Bottom hole pressure 2340 psi
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh and produced water from Stringtown field operations with bactericides.
 22) FILTERS (IF ANY): Coal bed and/or cartridge filters.
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

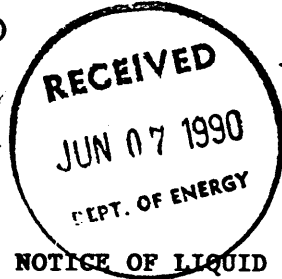
24) CASING AND TUBING PROGRAM

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	H-40	24	X		200'	200'	Cmt to surface	<u>38CSR-18-11.3</u>
Coal									Sizes
Intermediate									
Production	4-1/2	J-55	9.5	X		2950'	2950'	300 sks.	Depths set <u>38CSR 18-11.1</u>
Tubing									
Liners									Perforations: Top _____ Bottom _____

25) APPLICANT'S OPERATING RIGHTS were acquired from Alpheus Glover
 by deed _____ / lease / other contract _____ / dated November 9, 19 1896, of record in the
Tyler County Clerk's office in Lease Book 30 at page 641

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

10764



- 1) Date June 1, 1990
Operator's _____
- 2) Well No. M. H. PENNICK NO. 9
- 3) SIC Code _____
- 4) API Well No. 47 - 095 - 1411
State County Permit _____

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 <u>Jerry Walters</u>
Address <u>Alvy, W. Va. 26322</u>

(ii) Name _____
Address _____

(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