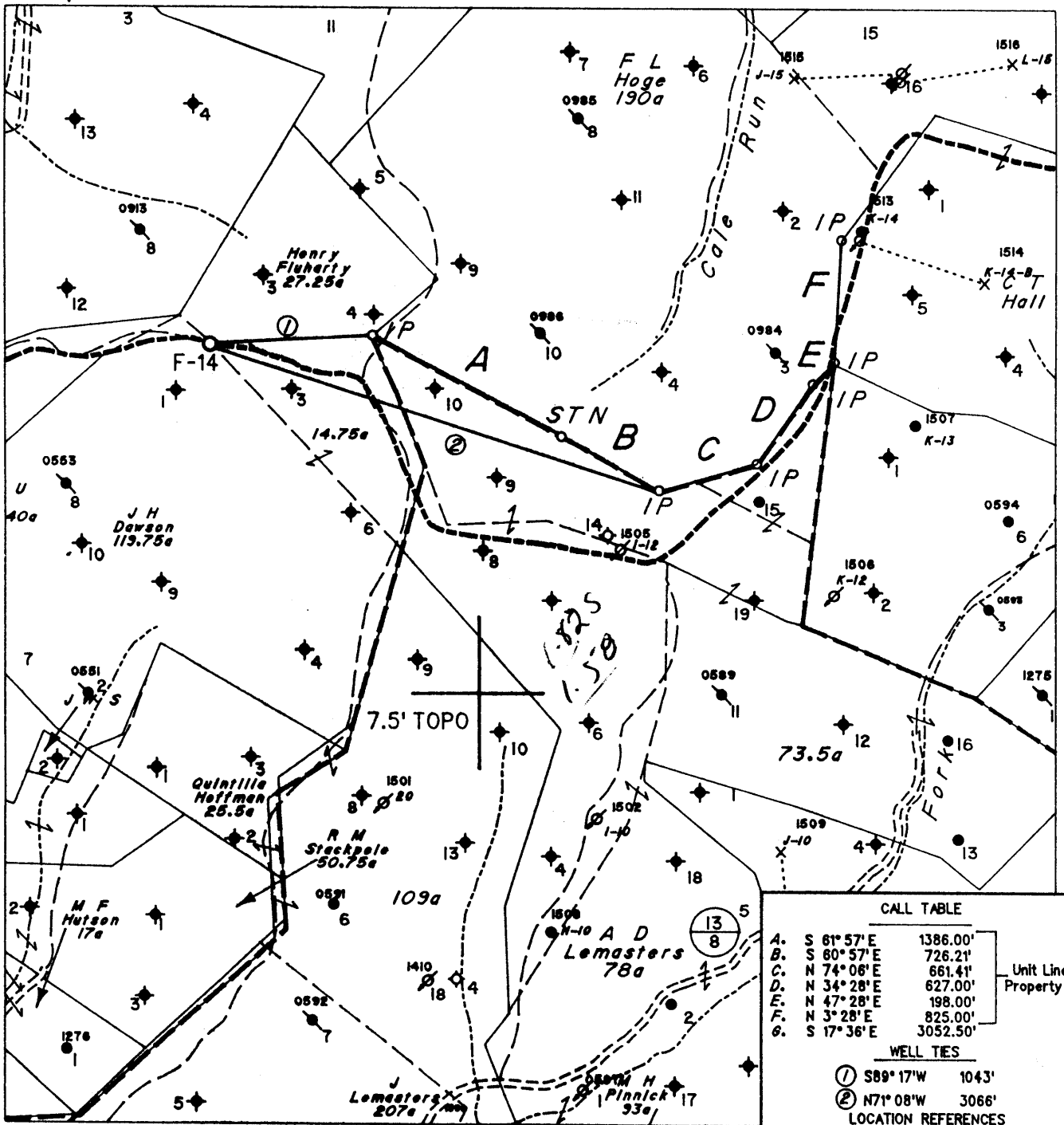




AS 5-7-93



Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

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

CALL TABLE		
A.	S 61° 57' E	1386.00'
B.	S 80° 57' E	726.21'
C.	N 74° 06' E	661.41'
D.	N 34° 28' E	627.00'
E.	N 47° 28' E	198.00'
F.	N 3° 28' E	825.00'
G.	S 17° 36' E	3052.50'

Unit Line & Property Line

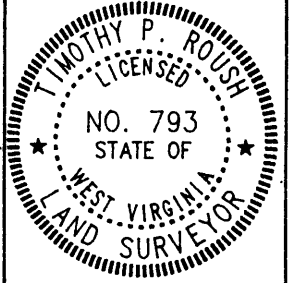
WELL TES	
①	S89° 17' W 1043'
②	N71° 08' W 3066'

LOCATION REFERENCES	
NB4° 22'E 214'	18" Poplar
S75° 17'E 198'	10" Poplar
S79° 04'W 189'	6" Dead Hickory

FILE NO. 1783  
 MAP NO.      N      S      E      W       
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION F.R. Ball No. 9  
(47-095-0548) = 1152'

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 PS 793



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE April 16, 19 93  
 FARM J.H. Dawson NO. F-14  
 API WELL NO. 47-095-1532-4

WELL TYPE: OIL      GAS      LIQUID INJECTION X WASTE DISPOSAL       
 (IF "GAS") PRODUCTION      STORAGE      DEEP      SHALLOW       
 LOCATION: ELEVATION 1381' WATERSHED Stackpole Run  
 DISTRICT McElroy S COUNTY Tyler  
 QUADRANGLE Centerpoint 15 NW

SURFACE OWNER Darrell Stackpole ACREAGE 4/ Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 119.75 Ac.  
 LEASE NO. 13568-50

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

PLUG AND ABANDON      CLEAN OUT AND REPLUG      8-0 Jacksonburg-Stringtown  
 TARGET FORMATION Gordon ESTIMATED DEPTH 3370'  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews (095)  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 673 4670 Vienna, W.Va. 26105

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

*Apr 17*

Well Operator's Report of Well Work

Farm name: STACKPOLE, DARRELL, ETUX.

Operator Well No.: J H DAWSON F-14

LOCATION: Elevation: 1,381.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY  
Latitude: 9,400 Feet south of  
Longitude: 8,300 Feet west of

County: TYLER  
39 Deg 30 Min 0 Sec.  
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 12/04/03

Well work Commenced: 03/02/04

Well work Completed: 03/06/04

Verbal plugging permission granted on:

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 3375

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"	638.00'	638.00'	200 sks
4 1/2"	3339.00'	3339.00'	300 sks

RECEIVED  
Office of Oil & Gas  
Office of Chief  
MAY 20 2004  
WV Department of  
Environmental Protection

OPEN FLOW DATA

Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3214-3278  
 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: EAST RESOURCES, INC.

By: *[Signature]*

Date: 5/12/04

TYL 1532

JUN 18 2004

**Treatment :** Treated perforations 3248' -3254' w/ 250 gals 15% HCL, 302 Bbls cross linked gel and 17,500 # 20/40 sand

**Well Log :** See original well record

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

SEP 16 1993  
Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: STACKPOLE, DARRELL ETUX. Operator Well No.: J.H.DAWSON F-14

LOCATION: Elevation: 1,381.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER  
Latitude: 9400 Feet South of 39 Deg. 30Min. Sec.  
Longitude 8300 Feet West of 80 Deg. 40 Min. Sec.

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

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD  
Permit Issued: 05/12/93  
Well work Commenced: 07/15/93  
Well work Completed: 08/09/16/93  
Verbal Plugging  
Permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3375'  
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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.
8-5/8"	638'	638'	200 sks.
4-1/2"	3339'	3339'	300 sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3214-3278  
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: Supervisor - Surveying/Mapping  
Date: September 15, 1993

SEP 16 1993

Treatment

Perforated: Gordon from 3248' - 3254' (12 holes)

Treated: w/ 290 bbls. of gelled water, 1500# of 80/100 sand and 3500# of 20/40 sand.

Well Log

Sand & Shale	0 - 930
Limestone & Shale	930 - 1015
Limestone	1015 - 1060
Sand & Shale	1060 - 1172
Limestone	1172 - 1182
Shale	1182 - 1214
Sand	1214 - 1248
Shale	1248 - 1300
Sand & Shale	1300 - 1415
Shale	1415 - 1585
Sand	1585 - 1640
Shale	1640 - 1682
Sand	1682 - 1704
Sand & Shale	1704 - 1784
Sand	1784 - 1834
Shale	1834 - 1975
Sand	1975 - 2015
Shale	2015 - 2145
Sand	2145 - 2195
Shale	2195 - 2360
Little Lime	2360 - 2374
Shale	2374 - 2387
Blue Monday	2387 - 2416
Big Lime	2416 - 2464
Big Injun	2464 - 2640
Shale	2640 - 3214
Gordon	3214 - 3278
Total Depth	3375'

DF 411

OFT-419

62111

**RECEIVED**  
WV Division of  
Environmental Protection  
APR 19 93  
Permitting  
Office of Oil & Gas



- 1) Date: April 16, 19 93  
 2) Operator's Well No. J.H. DAWSON F-14  
 3) SIC Code \_\_\_\_\_  
 4) API Well NO. 47 - 095 - 1532-LI  
 State County Permit  
 5) UIC Permit No. \_\_\_\_\_

*Issued 05/12/93*

*Expires 05/12/95*

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

- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
 7) LOCATION: Elevation: 1381' / Watershed: Stackpole Run  
 District: McElroy / County: Tyler / Quadrangle: Centerpoint  
 8) WELL OPERATOR Pennzoil Products Co. 37450  
 Address P.O. Box 5519  
Vienna, WV 26105  
 9) DESIGNATED AGENT J.A. Crews  
 Address P.O. Box 5519  
Vienna, WV 26105  
 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Mike Underwood  
 Address Rt. #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) \_\_\_\_\_  
 13) GEOLOGICAL TARGET FORMATION, Gordon <sup>419</sup> Depth 3266 feet(top) to 3281 feet(bottom)  
 14) Estimated depth of completed well, (or actual depth of existing well) 3370 ft.  
 15) Approximate water strata depths: Fresh 561 feet; salt, ~~561~~ feet.  
 16) Approximate coal seam depths: 1190  
 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 Bottom hole pressure 2380  
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides, and other chemicals as needed to maintain water quality and improve oil recovery.  
 22) FILTERS (IF ANY): Cartridge Filters and/or Coal Bed Filters  
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: \_\_\_\_\_

24) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	L.S.	20	X		630	630	Cement to	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		3370	3370	Cement over	Depths set
Tubing								Salt Sand	
Liners									Perforations:
									Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from Jas. H. & M.A. Dawson  
 by deed \_\_\_\_\_ / lease  / other contract \_\_\_\_\_ / dated April 2, 1894, of record in the  
Tyler County Clerk's office in Lease Book 23 at page 526

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

17179

**RECEIVED**  
WV Division of  
Environmental Protection  
APR 19 93  
Permitting  
Office of Oil & Gas

- 1) Date April 16, 1993  
Operator's
- 2) Well No. J.H. DAWSON #F-14
- 3) SIC Code \_\_\_\_\_
- 4) API Well No. 47 - 095 - 1532  
State County Permi

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 Darrell & Grace Stackpole  
Address Alvy, WV 26322
  - (ii) Name Richard H. Evans  
Address P.O. Box 35  
New Martinsville, WV 26155
  - (iii) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 7 (i) COAL OPERATOR N/A  
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