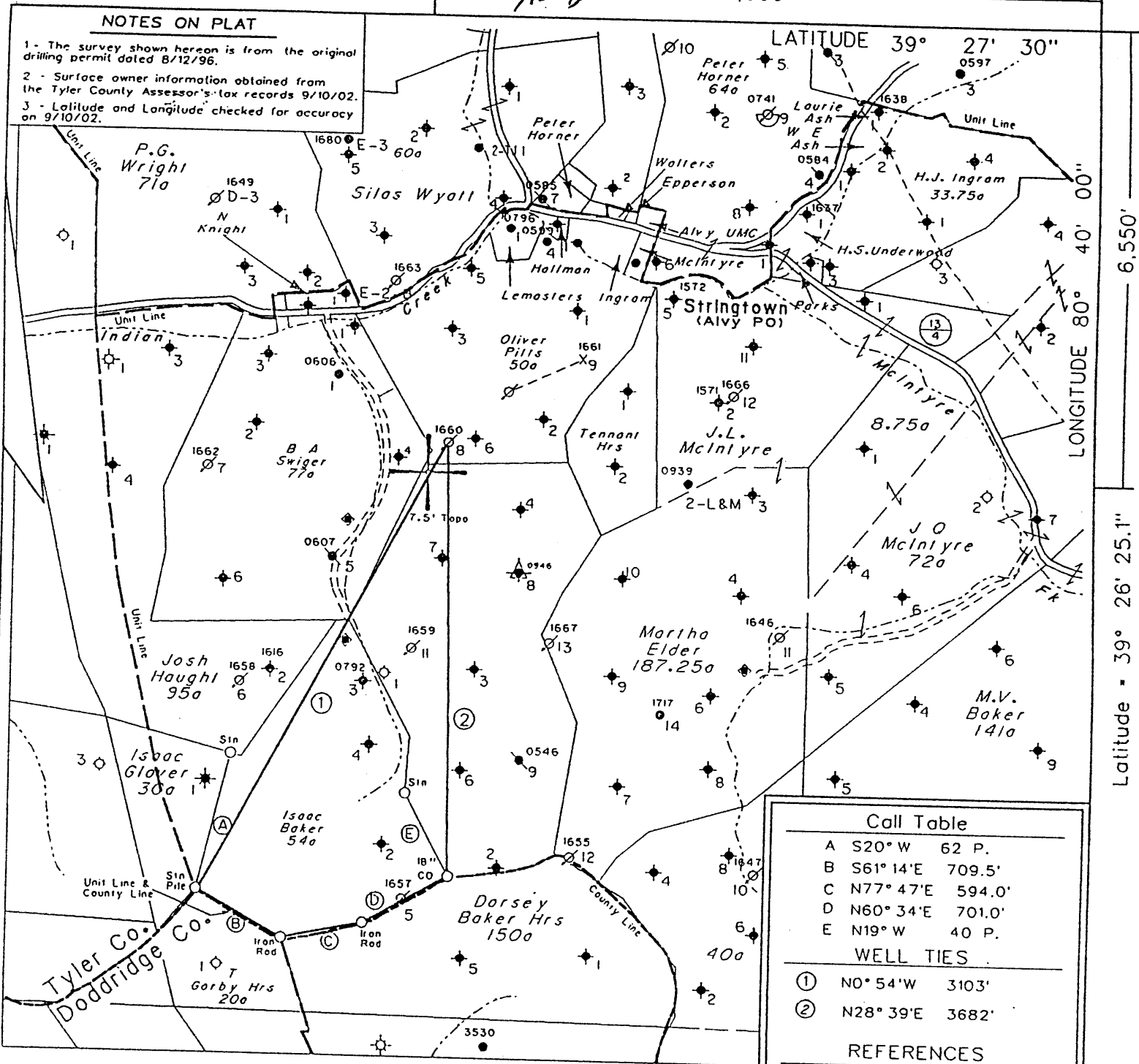


Longitude = 80° 42' 01.2"

9,500'

NOTES ON PLAT

- 1 - The survey shown hereon is from the original drilling permit dated 8/12/96.
- 2 - Surface owner information obtained from the Tyler County Assessor's tax records 9/10/02.
- 3 - Latitude and Longitude checked for accuracy on 9/10/02.



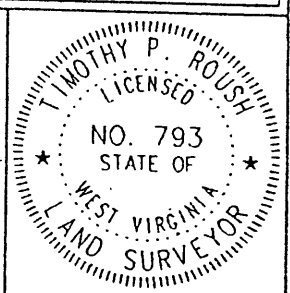
Call Table	
A	S20° W 62 P.
B	S61° 14' E 709.5'
C	N77° 47' E 594.0'
D	N60° 34' E 701.0'
E	N19° W 40 P.
WELL TIES	
①	N0° 54' W 3103'
②	N28° 39' E 3682'
REFERENCES	
Existing Well	

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

FILE NO. 1822  
 MAP NO. N47 N S 1 E W 5  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS BM - 902

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



WEST VIRGINIA  
 Division of Environmental Protection  
 Office of Oil and Gas  
 1356 Hansford St.  
 Charleston, West Virginia 25301



DATE November 6, 2002  
 FARM Oliver Pitts NO. 8  
 API WELL NO. 47-095-1660F

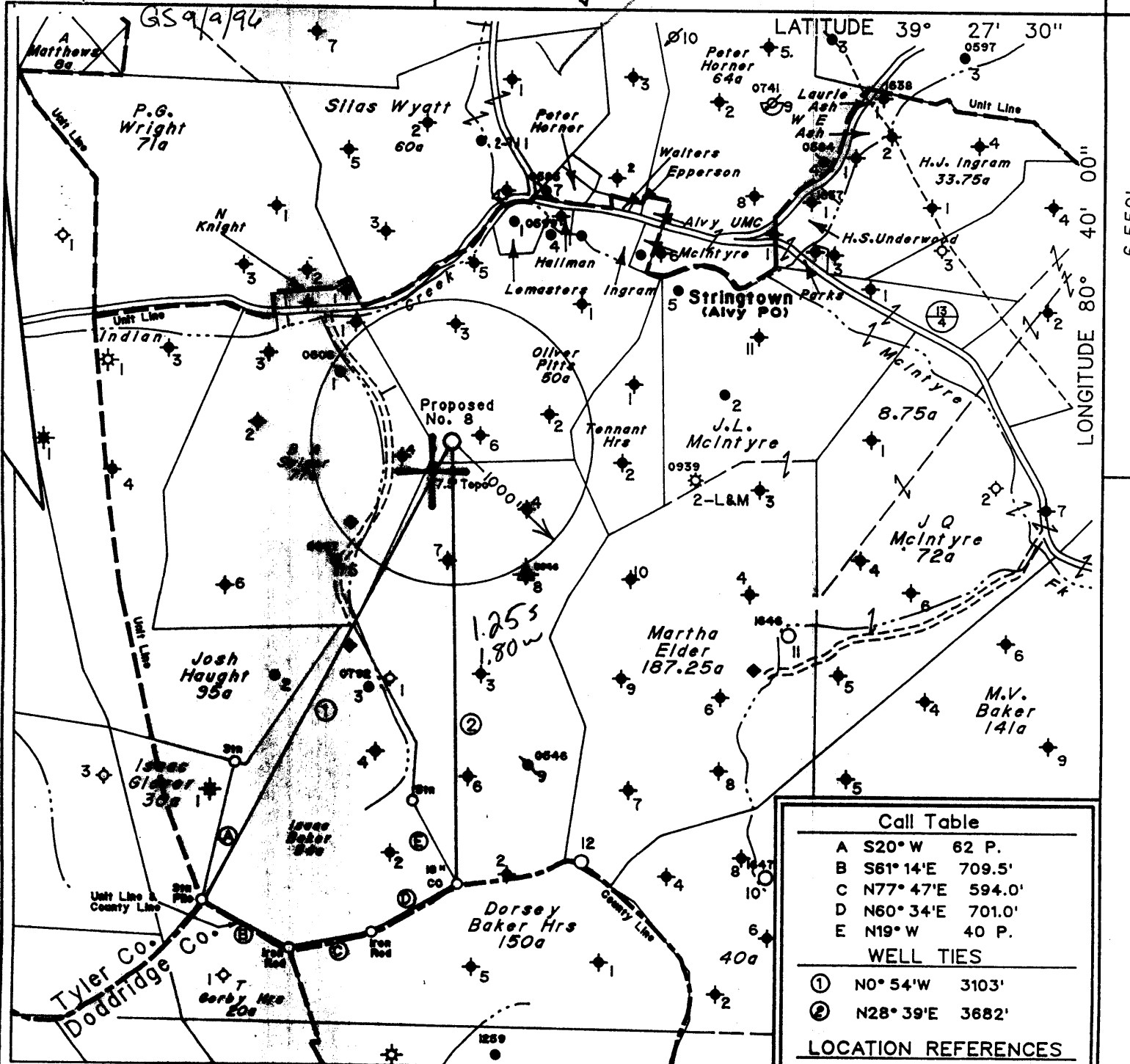
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1007' WATERSHED Indian Creek  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Centerpoint 7.5'  
 SURFACE OWNER Elden & Irene Nichols ACREAGE 53.4 Ac.  
 OIL & GAS ROYALTY OWNER East Resources, Inc. LEASE ACREAGE 50 Ac.  
 LEASE NO. 13612-50  
 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 Gordon ESTIMATED DEPTH 2,992'  
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Michael McCown  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna W Va 26105

DEC 06 2002

TYL 1660F

GS 9/a/96



Call Table	
A	S20° W 62 P.
B	S61° 14'E 709.5'
C	N77° 47'E 594.0'
D	N60° 34'E 701.0'
E	N19° W 40 P.
WELL TIES	
①	N0° 54'W 3103'
②	N28° 39'E 3682'
LOCATION REFERENCES	
S31° 58'W	100' 18" Oak Stump
S58° 53'E	179' 8" Sourwood
N77° 01'E	173' 3" Maple

Note: All known water supply sources located within 1000' of proposed well are shown.

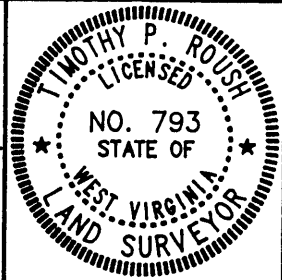
◆ Denotes a Water Supply Source

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

FILE NO. 1822  
 MAP NO. N47 N S 1 E W 5  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS BM - 902

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 August 12, 19 96  
 FARM Oliver Pitts NO. 8  
 API WELL NO. 47-095-01660-5

WELL TYPE: OIL    GAS    LIQUID INJECTION X WASTE DISPOSAL     
 (IF "GAS") PRODUCTION    STORAGE    DEEP    SHALLOW     
 LOCATION: ELEVATION 1007' WATERSHED Indian Creek  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Centerpoint 7.5'

SURFACE OWNER Edna & Irene Nichols ACREAGE 53.4 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 50 Ac.  
 LEASE NO. 13612-50

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     
 TARGET FORMATION Gorden ESTIMATED DEPTH 3007'

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna, W.Va. 26105

SEP 13 1996

8-0 95

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

*Handwritten mark*

Well Operator's Report of Well Work

Well name: Nichols, Elden & Irene Operator Well No.: O. Pitts 8  
LOCATION: Elevation: 1007' Quadrangle: Centerpoint 7.5'  
District: McElroy County: Tyler  
Latitude: 6,550 Feet south of 39 Deg 27 Min 30 Sec.  
Longitude: 9,500 Feet west of 80 Deg 40 Min 00 Sec.

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

Agent: MICHAEL MCCOWN

Inspector: Mike Underwood

Permit Issued: 12/04/02

Well work Commenced: 01/13/03

Well work Completed: 01/15/03

Verbal plugging

Permission granted on:

Rotary  Cable  Rig

Total Depth (feet) 2992'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Coal being mined in area (Y/N) NA

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	270'	270'	150 sks
4 1/2"	2932.4'	2932.4'	275 sks

OPEN FLOW DATA

\* Waterflood Injection well

Producing formation Gordon Pay zone depth (ft) 2980'-2986'

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: *Handwritten signature*

Date: 1/17/03

FEB 27 2003

TYL 1660

**Treatment:** Treated Gordon perforations 2882'-2886' with 250 gals 15% HCL, 339 bbls Crosslinked gel water and 15,900# 20/40 sand

**Well Log** See original well log

WR-35

API # 47 -095- 1660 9-Sep-96

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

Well Operator's Report of Well Work



Farm name: Nichols, Elden & Irene Operator Well No.: O. Pitts #8  
LOCATION: Elevation: 1,007.00 Quadrangle: Center Point  
District: Mc Elroy County: Tyler  
Latitude: 6,550 Feet south of 39 Deg 27 Min 30 Sec.  
Longitude: 9,500 Feet west of 80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 9/9/96  
Well work Commenced: 12/17/96  
Well work Completed: 1/2/97

Verbal plugging permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 2992'  
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"	270'	270'	150 Sacks
4 1/2"	2932.40'	2932.40'	275 Sacks

OPEN FLOW DATA \*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2,292'  
 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: 3/17/98

TYL 1660

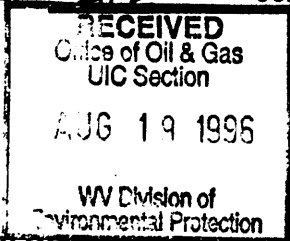
**Treatment :**

Perforated Gordon sand with 16 holes from 2882'-2886' K.B. Fractured with 300 gals 15% HCL and 182 bbls gelled water and 9,500 lbs. 20/40 sand

**Well Log :**

All depth are relative to K.B.

0	276 Sand and Shale
276	535 Shale
535	570 sand
570	654 Shale
654	702 sand
702	895 Shale
895	912 sand
912	1380 Shale
1380	1388 sand
1388	1608 Shale
1608	1624 sand
1624	1654 Shale
1654	1676 sand
1676	1724 Shale
1724	1742 sand
1742	2044 Shale
1724	2140 Big Lime
2140	2292 Big Injun
2292	2872 Shale
<del>2292</del> 2872	2886 Gordon
2886	2995 Shale



1) Date August 13, 1996  
 2) Well No. Oliver Pitts No.8  
 3) SIC Code \_\_\_\_\_  
 4) API Well No. 47 - 095 - 1660-LI  
 State County Permit  
 5) UIC Code \_\_\_\_\_

*Issued 09/09/96  
Expires 09/09/98*

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

22560

WELL TYPE: Liquid Injection  Gas Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_

LOCATION: Elevation 1007 Watershed Indian Creek  
 District McElroy County Tyler Quadrangle \_\_\_\_\_ Centerpoint \_\_\_\_\_

WELL OPERATOR: Pennzoil Products Company 4676 9) DESIGNATED AGENT: Philip S. Ondrusek  
P.O. Box 5519 P.O. Box 5519  
Vienna, WV 26105 Vienna, WV 26105

10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Mike Underwood 11) DRILLING CONTRACTOR: Name \_\_\_\_\_  
 Address Route 2, Box 135 Address \_\_\_\_\_  
Salem, WV 26426

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 469 Depth 2867 Ft. (Top) to 2882 Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3007 Ft.

15) Approximate water strata depths: Fresh 187 Ft. Salt 1214 Ft.

16) Approximate coal seam depths: 819 Ft.

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.

20) Maximum proposed injection operations: Volume per hour 25 bbl. Bottom Hole Pressure 2332 psig.

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.

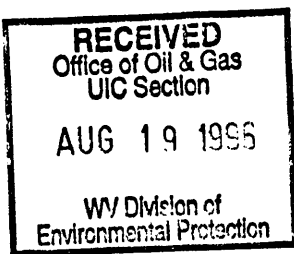
22) Filters (if any): Cartridge filters and/or coal bed filters

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	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	8 5/8"	L.S.	20#	X		257	257	Cement To	
Coal								Surface	Sizes
Intermediate									
Production Tubing	4 1/2"	J-55	10.5#	X		3007	3007	Cement Over	Depths Set
Liners								Salt Sand	
									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from Oliver & Rachael Pitts  
 by Deed \_\_\_\_\_ Lease  Other Contract \_\_\_\_\_ Dated July 24, 1894 of record in the  
Tyler County Clerk's Office in Deed Book 23 Page 595



1) Date August 13, 1996  
2) Well No. Oliver Pitts No.8  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 095 - 1660-01  
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 Elden & Irene Nichols  
Address Alvy, WV 26322  
(ii) Name Mrs. Homer Tennant  
Address H.C.R. 62, Box 64  
Alvy, WV 26322  
(iii) Name Dorsey Baker Estate  
Address c/o Earle M. Long  
117 Ellis Ave.  
Elkins, WV 26241

6 (iv) ADDITIONAL SURFACE OWNERS

Name \_\_\_\_\_  
Address \_\_\_\_\_

7 (ii) COAL OWNER WITH DECLARATION ON RECORD:

Name N/A  
Address \_\_\_\_\_

7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name N/A  
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 \_\_\_\_\_

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]  
Its Supervisor, Surveying/Mapping  
Telephone (304) 422-6565



OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-095-1660-LI

Sept. 9th. 96  
19  
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 9-9-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: MS	Casing: MS	Fee: CK#
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0361284927

*Michael D. Jones*

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

CHIEF, OFFICE OF OIL AND GAS

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:	_____		