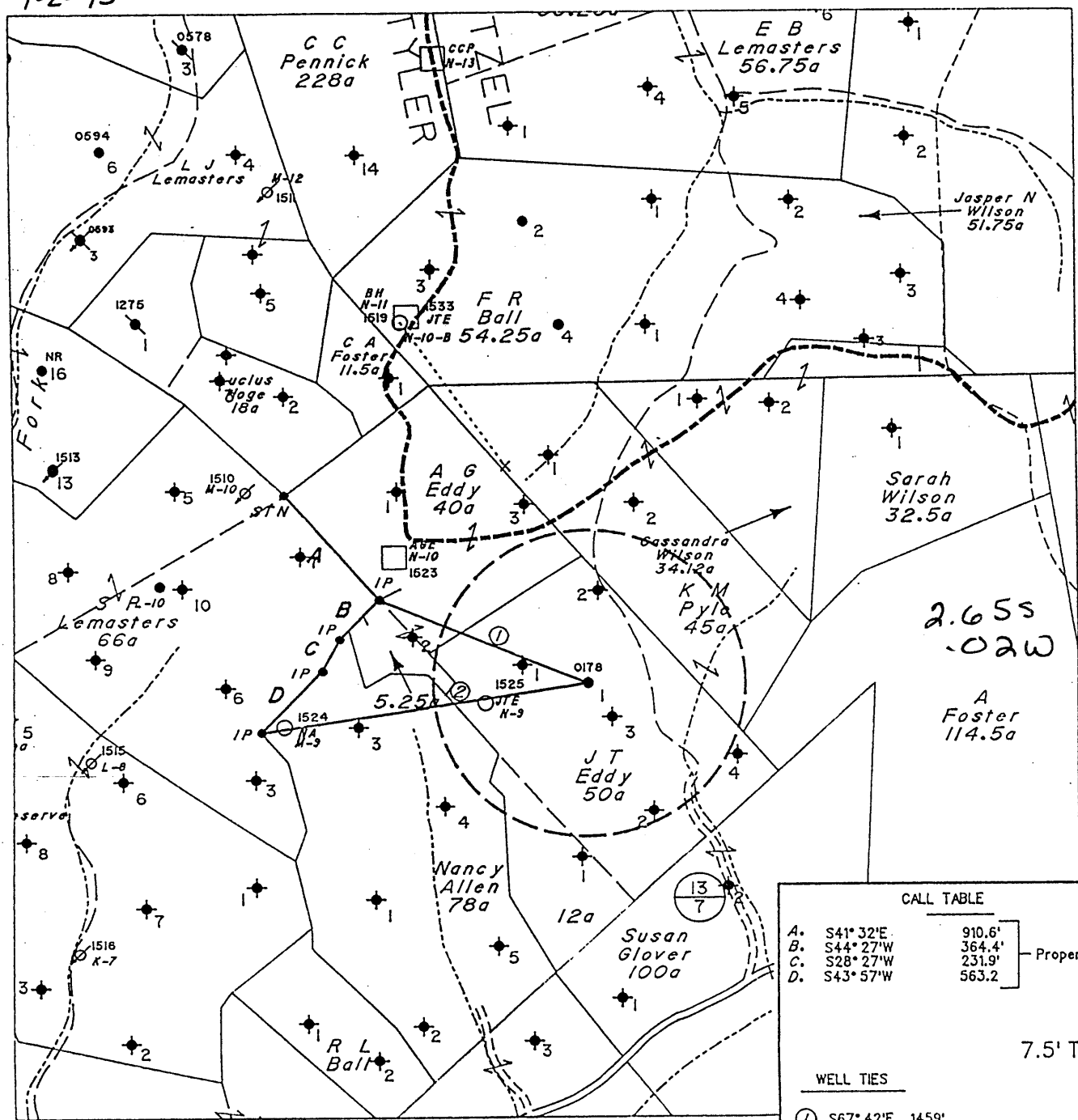


MS 7-2-93

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



2.655
.02W

A
Foster
114.5a

CALL TABLE		
A.	S41° 32'E	910.6'
B.	S44° 27'W	364.4'
C.	S28° 27'W	231.9'
D.	S43° 57'W	563.2'

Property Line

7.5' TOPO

- WELL TIES
- ① S67° 42'E 1459'
 - ② N81° 28'E 2129'

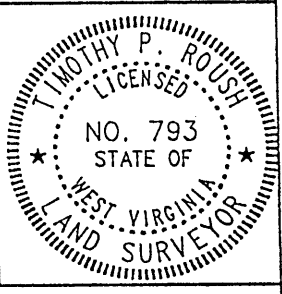
NOTE: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

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

FILE NO. 1779
 MAP NO. N48 N 1 S E W 3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION C.C. Pennick No.22
(47-095-1056) = 1382'

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 June 24, 19 93
 FARM J.T. Eddy NO. 1
 API WELL NO. 47-095-0178-LT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 965' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

FRAC
 cancelled
 2/4/99

SURFACE OWNER Ellen J. Muth ACREAGE 125 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 91.67 Ac.
 LEASE NO. 47220-00

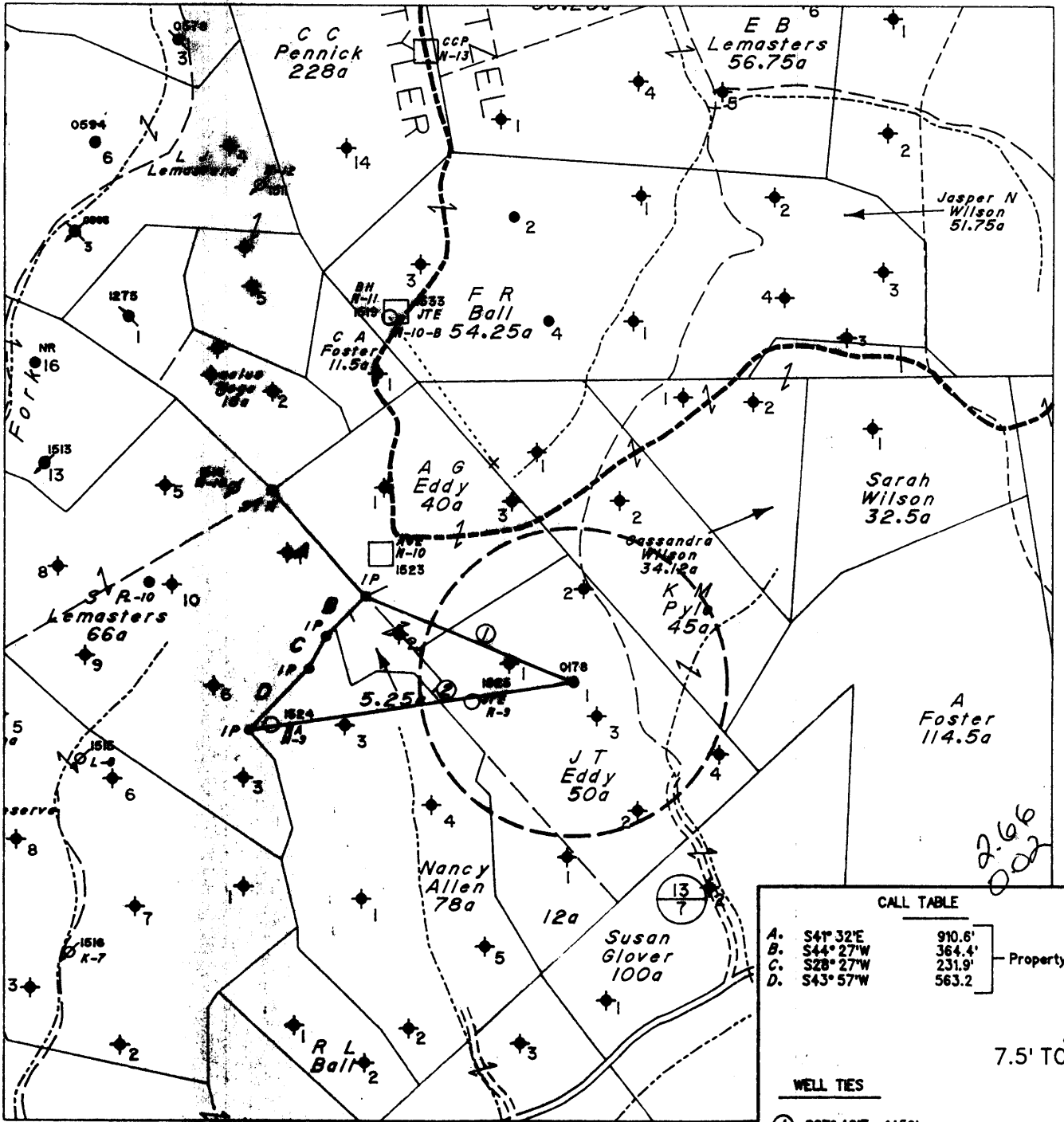
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Side Track

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 2910' FEB 08 1999
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

MS 7-2-93

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



CALL TABLE	
A. S41° 32'E	910.6'
B. S44° 27'W	364.4'
C. S28° 27'W	231.9'
D. S43° 57'W	563.2'

Property Line

7.5' TOPO

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

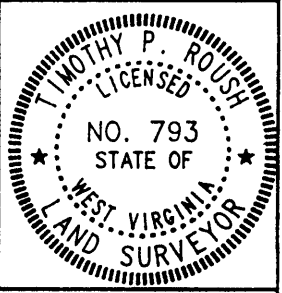
(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

- WELL TIES
- ① S67° 42'E 1459'
 - ② N81° 28'E 2129'

FILE NO. 1779
 MAP NO. N48 N 1 S E W 3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION C.C. Pennick No. 22
(47-095-1056) = 1382'

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 June 24, 19 93
 FARM J.T. Eddy NO. 1
 API WELL NO. 47-095-0178-LT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 365' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

SURFACE OWNER Ellen J. Muth ACREAGE 125 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 91.67 Ac.
 LEASE NO. 47220-00

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 2910'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

AUG 28 1996

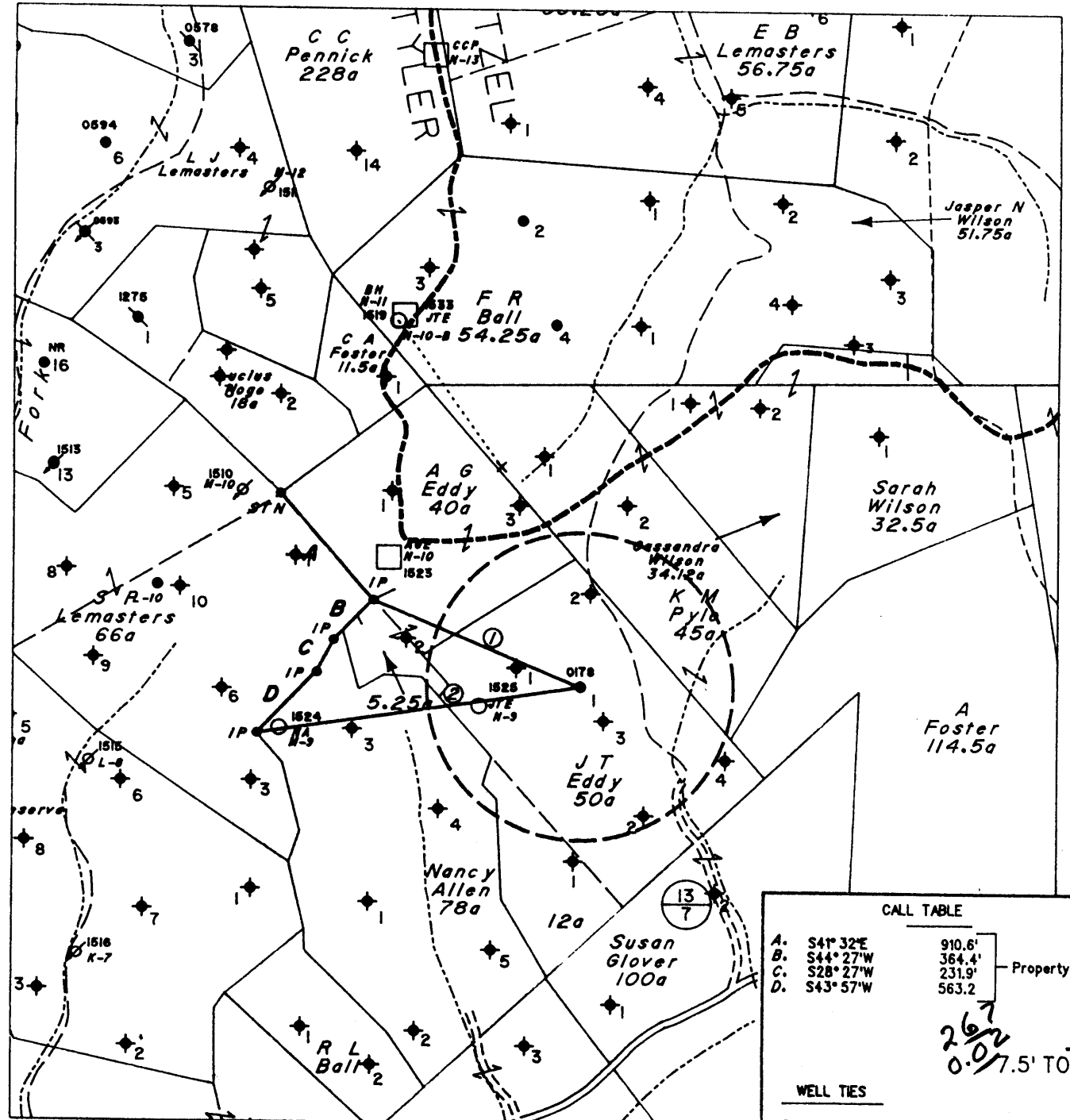
FORM IV-6

TYLER 0178-LT

MS 7-2-93

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



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. S41° 32'E	910.6'
B. S44° 27'W	364.4'
C. S28° 27'W	231.9'
D. S43° 57'W	563.2'

Property Line

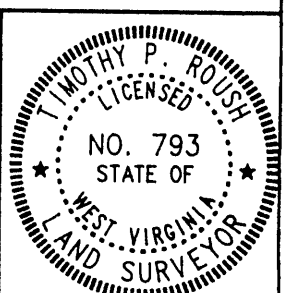
267
0.02
7.5' TOPO

WELL TIES	
①	S67° 42'E 1459'
②	N81° 28'E 2129'

FILE NO. 1779
 MAP NO. N48 N 1 S E W 3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION C.C. Pennick No.22
(47-095-1056) = 1382'

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 June 24, 19 93
 FARM J.T. Eddy NO. 1
 API WELL NO. 47-095-0178-LI

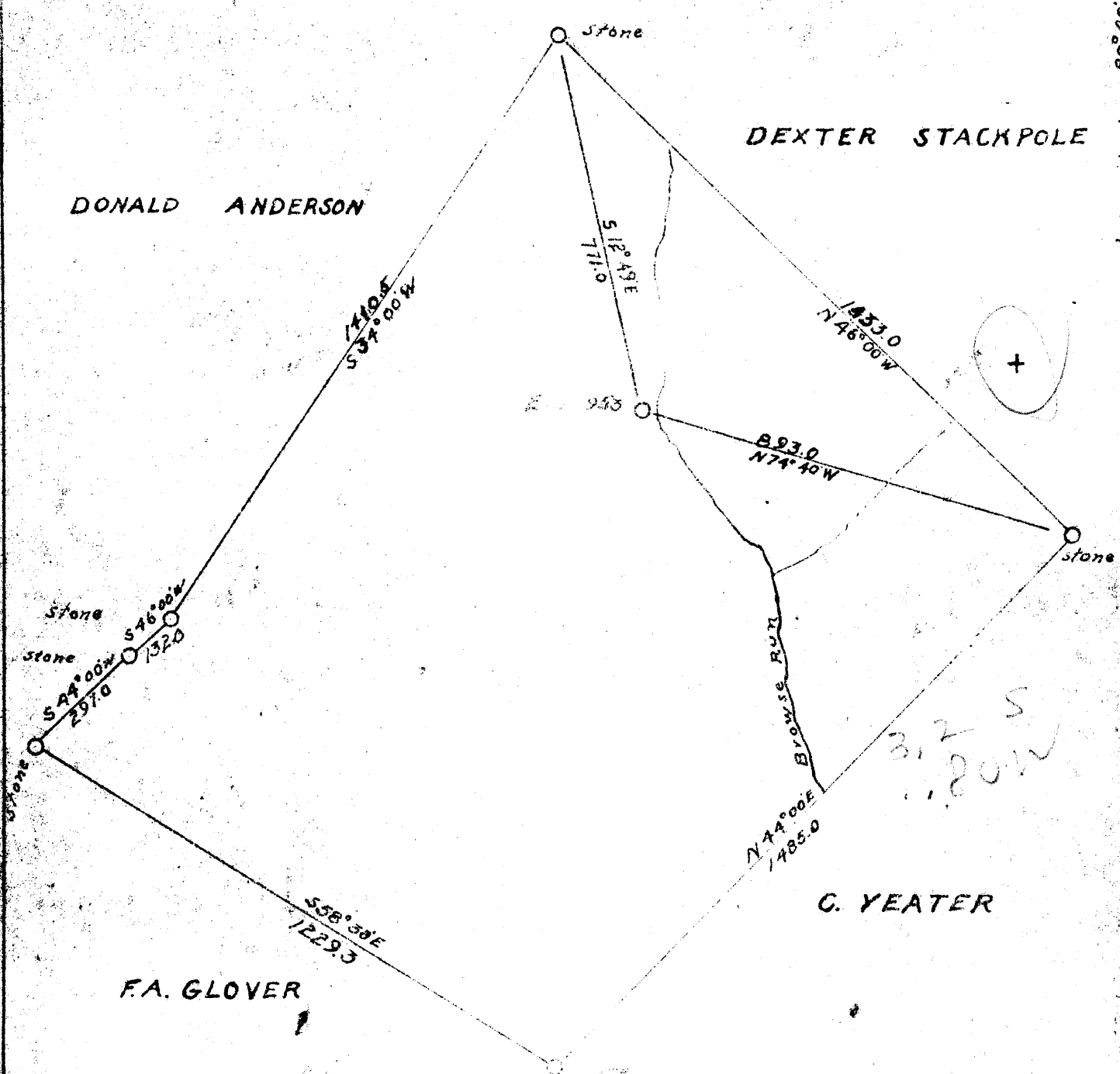
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 365' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint NW
 SURFACE OWNER Ellen J. Muth ACREAGE 125 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 91.67 Ac.
 LEASE NO. 47220-00
 PROPOSED WORK: DRILL ___ CONVERT X DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Side Track

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Gordon ESTIMATED DEPTH 2910'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
4670 ADDRESS P. O. Box 5519
4670 ADDRESS P. O. Box 5519
 Vienna, W.Va. 26105 Vienna, W.Va. 26105

SEP 3 1993

Latitude 38° 30'

Longitude 80° 40'



- New Location
- Drill Deeper
- Abandonment

Company GEORGE KERNS
 Address DALE W Va
 Farm J.T. Eddy Hrs
 Tract One Acres 50 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 263
 Quadrangle Center Point **NW**
 County Tyler District McElroy
 Engineer G.L. McIntire
 Engineer's Registration No. 1187
 File No. _____ Dist. No. _____
 Date Nov 12 1949 Scale 1" = 300'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. STL-178

+ Denotes location of well on United States Topographic Maps scale 7 to 62 500. latitude and longitude lines being represented by border lines as shown.

- Denotes one inch squares on border line of original tracing.

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

Well Operator's Report of Well Work

Farm name: MUTH, ELLEN J. Operator Well No.: J. T. EDDY #1

LOCATION: Elevation: 965 Quadrangle: CENTERPOINT

District: MCELROY County: TYLER
Latitude: 100' South of 30 Deg. 30 min.
Longitude 14,000' West of 80 Deg. 40 min.

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

Agent: JAMES A. CREWS

Inspector: Mike Underwood
Permit Issued: 9/1/93
Well work Commenced: 9/2/93
Well work Completed: 12/16/94
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 2911'
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 Cu. Ft.
(See original well record)			
3 1/2	2903	2903	25 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2840-2860
 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: 1/4/95

TREATMENT

Perforated with 16 holes 2864'-2868'. Treated with 300 gallons HCL acid, 238 barrels gelled water and 7,000 lbs. of 20/40/sand.

WELL LOG

(See original well record).

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Tyl 178
Centerpoint Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Date shot

Open flow
Oil
Fresh Water
Salt Water

George R. Kerns
Dale, W.Va.
J.T. Eddy Hrs. A 50
Indian Creek
1 Elev. 953'
McElroy Tyler County
Donald Anderson, Dale, W.Va.
J.T. Eddy Hrs., Marysville, Ohio
Aug. 3, 1950
Oct. 14, 1950
Oct. 21 Depth 2844' to 2851'
with 50 qts.
60/10ths W in 1/2"
8 bbls. 1st 24 hrs.
100'
2105' 1 b. per hr.

Oil Well
CASING & TUBING

	10	280	280	
	8 1/2	1185	1185	
	6 5/8	2280	2280	

Conductor Wood		15	Red Rock	S	1845	1975
Clay Gr		0	Little Lime Dk	H	1975	1995
Rock		15	Pencil Cave Wh	S	1995	2000
Lime Gr	H	50	Big Lime Wh	H	2000	2096
Red Rock	S	80	Big Injun Wh	H	2096	2270
Sand Wh	S	100	Slate Lime Dk	H	2270	2405
Red Rock	S	125	Sand Wh	H	2405	2448
Slate Wh		160	Slate Dk	S	2448	2451
Lime Shells	H	185	Lime Dk	H	2451	2490
Red Rock	S	235	Sand Dk	H	2490	2505 ^{B.c.}
Lime Wh	S	275	Lime Shells Wh	H	2505	2635
Slate Wh	S	310	Slate Dk	H	2635	2674
Red Rock	S	375	Slate Wh	H	2674	2715
Sand Wh	S	385	Pink Rock	S	2715	2755
Slate Dk	S	410	Stray Sand Lime Wh	H	2755	2785
Lime Wh	H	415	Slate Dk	S	2785	2817
Slate Wh	H	440	Pink Rock	S	2817	2827
Red Rock	S	470	Lime Dk	H	2827	2840
Lime Wh	H	480	^{60%} Fourth Sand Wh	H	2840	2860
Slate Dk	S	495	First Oil and Gas	S	2843	2850
Lime Wh	H	530	Lime Sandy Dk	S&H	2850	2875
Slate Wh	H	635	T.D.			2897
Sand Wh	H	665	Measuring line run at 2847'			
Slate Shells Wh	H	680				
Sand Wh	H	735				
Slate Wh	S	840				
Red Rock	H	855				
Slate Shells Dk	H	865				
Red Rock	H	920				
Slate Wh	H	940				
Red Rock	S	965				
Slate		990				
Pink Rk	S	1000				
Slate Shells Wh	S	1035				
Pink Rock	S	1080				
Slate Dk	S	1190				
Sl. & Shells Wh	S	1260				
Red Rock	S	1280				
Sl. and Shell Wh	H	1285				
Lime Wh	H	1400				
Salt Sand Wh	H	1415				
Slate Dk	S	1465				
Sand Wh	H	1540				
Slate Wh	H	1565				
Sand Wh	H	1575				
Slate Dk	S	1600				
Sand Wh	H	1610				
Slate Dk	S	1680				
Sand Wh	H	1750				
Slate Shelly Wh	S	1810				

2000
953
1047

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-095-00178-F

Date August 22, 1996

19

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 8-22-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <input checked="" type="checkbox"/>
---	--	---	---	--

0301420929

[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

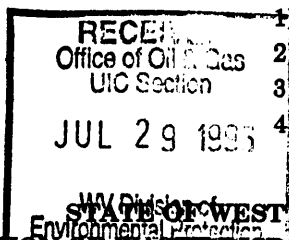
This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

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

OTHER INSPECTIONS

Reason: _____

Reason: _____



1) Date 7/23/96
 2) Well No. J.T. Eddy No.1
 3) SIC Code _____
 4) API Well No. 47 - 095 - 0178
 State County Permit

STATE OF WEST VIRGINIA
 Environmental Protection
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 Ellen & Brent Muth
 Address Rt. #3, Box 465
Cynthiana, KY 41031

(ii) Name _____
 Address _____

(iii) Name _____
 Address _____

7 (i) COAL OPERATOR:
 Name N/A
 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 _____

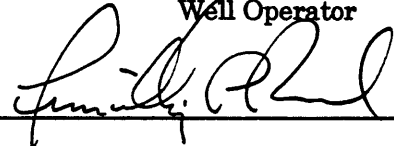
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

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 
 Its Supervisor, Surveying/Mapping

Telephone (304) 422-6565