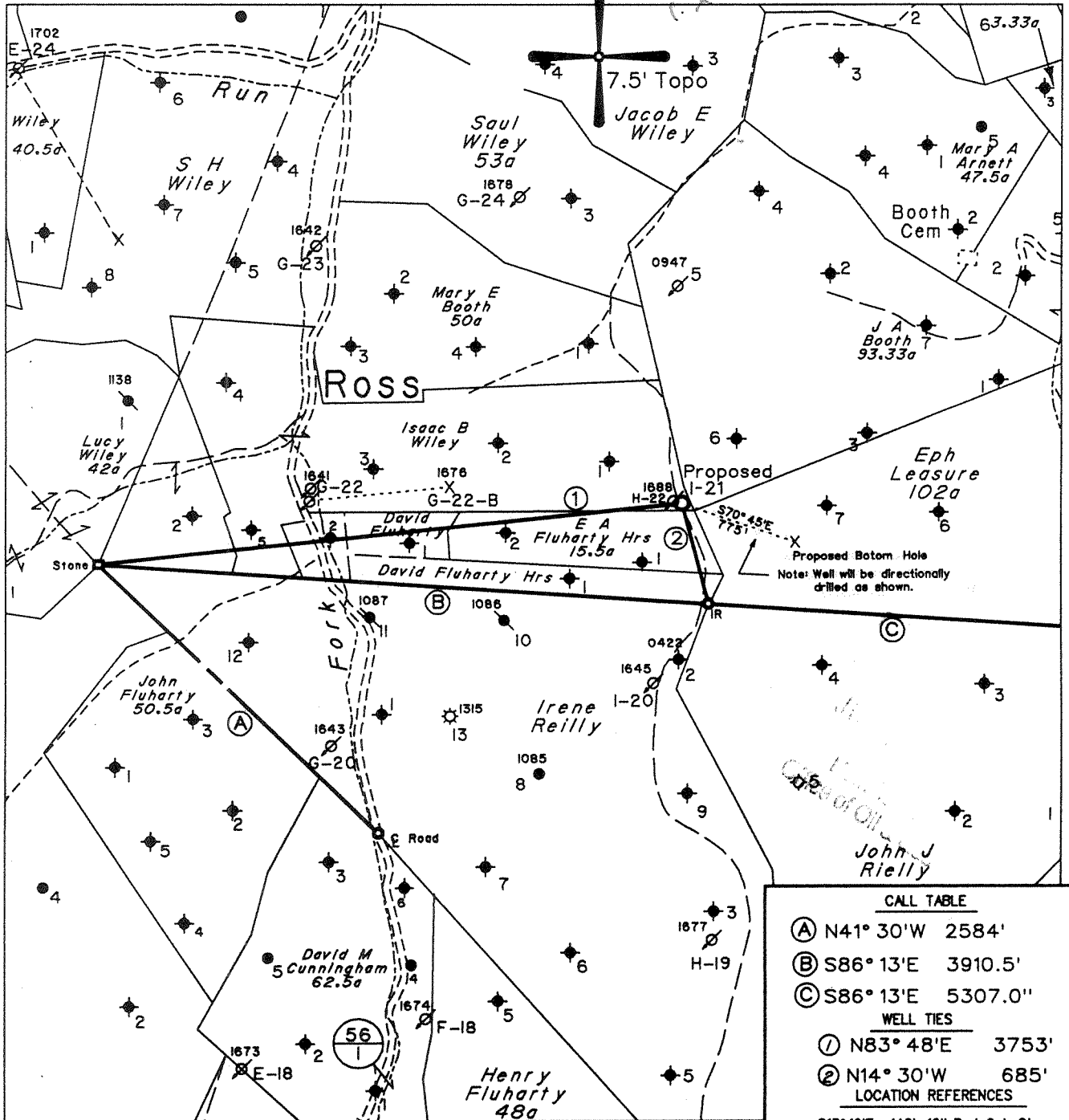


6,775'

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"

1,300'



CALL TABLE	
(A)	N41° 30'W 2584'
(B)	S86° 13'E 3910.5'
(C)	S86° 13'E 5307.0'
WELL TIES	
(1)	N83° 48'E 3753'
(2)	N14° 30'W 685'
LOCATION REFERENCES	
S13° 10'E	140' 12" Red Oak Stump
S28° 09'E	263' Power Pole
N83° 28'W	26' I.B. Wiley No.H-22

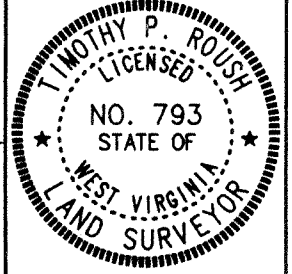
Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

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

FILE NO. 1801  
 MAP NO. N58 N 4 S E W 4  
 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  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506



DATE June 3, 1997  
 FARM Eph. Leasure NO. 1-21  
 API WELL NO. 47-103-01738

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1439' WATERSHED Fluharty Fork  
 DISTRICT Green COUNTY Wetzel  
 QUADRANGLE Centerpoint

*Directional well*

SURFACE OWNER John & Bonnie Knight et al ACREAGE 65 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 101 Ac.

LEASE NO. Fee 2837-00

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

*New drill*

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Gordon ESTIMATED DEPTH 3600' MD

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

JUN 19 1997

6-6 95

WR-35

16-Jun-97

API # 47 -103- 1738

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

Well Operator's Report of Well Work



Farm name: Knight, John & Bonnie  
LOCATION: Elevation: 1,439.00  
District: Green  
Latitude: 1,300 Feet south of  
Longitude: 6,775 Feet west of

Operator Well No.: E. Leasure #I-21  
Quadrangle: Center Point  
County: Wetzel  
39 Deg 30 Min 0 Sec.  
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK  
Inspector: Randal Mick  
Permit Issued: 6/16/97  
Well work Commenced: 6/20/97  
Well work Completed: 7/29/97  
Verbal plugging permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 3578'  
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"	709'	709'	325 Sacks
4 1/2"	3499.60'	3499.60'	275 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3382'  
 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

MAR 13 1998

WET 1738

Treatment :

Perforated Gordon sand with 36 holes from 3389'-3414' K.B. Fractured with 300 gals 15% HCL and 215 bbls gelled water and 11,000 lbs. 20/40 sand

Well Log :

All depth are relative to K.B. This well was directionally drilled.

0	718 Sand and Shale
718	788 sand
788	1034 Shale
1034	1100 sand
1100	1298 Shale
1298	1460 sand
1460	1784 Shale
1784	1827 sand
1827	1882 Shale
1882	1988 sand
1988	2284 Shale
2284	2324 sand
2324	2492 Shale
2492	2610 Big Lime
2610	2774 Big Injun
2774	3358 Shale
3358	3382 Gordon Stray
3382	3397 Gordon
3397	3578 Shale

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41-103-01730

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Issued 06/16/97

Expires 06/16/99 37450 286 (5)

23780

- ) Well Operator: Pennzoil Products Company 37450
- ) Operator's Well Number: Ephraim Leasure I-21 3) Elevation 1439
- ) Well Type: (a) Oil X or Gas \_\_\_\_\_  
(b) If Gas: Production \_\_\_\_\_ Underground Storage \_\_\_\_\_
- Proposed Target Formation(s): Gordon 49
- 6) Proposed Total Depth: 3600' MD feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_\_\_ No X
- 11) Proposed Well Work: Drill Directional Well (S70-45E 775' to Bottom Hole) and Stimulate

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor						38 CSR/BH-3
Fresh Water	8 5/8	L.S.	20	704	704	Existing Casing
Coal						38 CSR/BH-2.2
Intermediate						
Production	4 1/2	J-55	10.5	3600	3600	Cement over Salt Sand
Tubing						38 CSR/BH-1
Liners						

Packers: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

- Fee(s) Paid
- Well Work Permit
- Reclamation Fund
- WPCP
- Plat
- WW-9
- WW-2B
- Bond \_\_\_\_\_ (Type)
- Agent

301712169  
17

1) Date: June 3, 1997  
2) Operator's Well Number  
Ephraim Leasure I-21  
3) API Well No: 47 - 103 - 1738  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name John & Bonnie Knight  
Address 1668 Hillside Terrace  
Akron, Ohio 44305  
(b) Name John & Stanley Pittman  
Address P.O. Box 10  
Reader, WV 26167  
(c) Name  
Address  
6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304) - 782-1043

5) (a) Coal Operator:  
Name NA  
Address  
(b) Coal Owner(s) with Declaration  
Name NA  
Address  
Name  
Address  
(c) Coal Lessee with Declaration  
Name NA  
Address

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above-named parties, by:

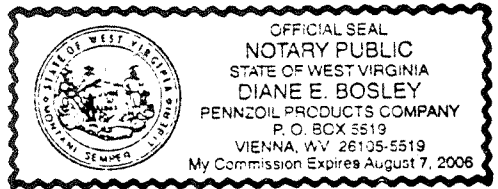
Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

Well Operator Pennzoil Products Company  
By: Timothy P. Roush  
Its: Supervisor, Surveying/Mapping  
Address P.O. Box 5519  
Vienna, WV 26105-5519  
Telephone (304) 422-6565



Subscribed and sworn before me this 4th day of June, 1997  
Diane E. Bosley Notary Public  
My commission expires August 7, 2006