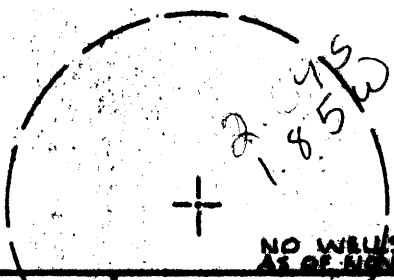
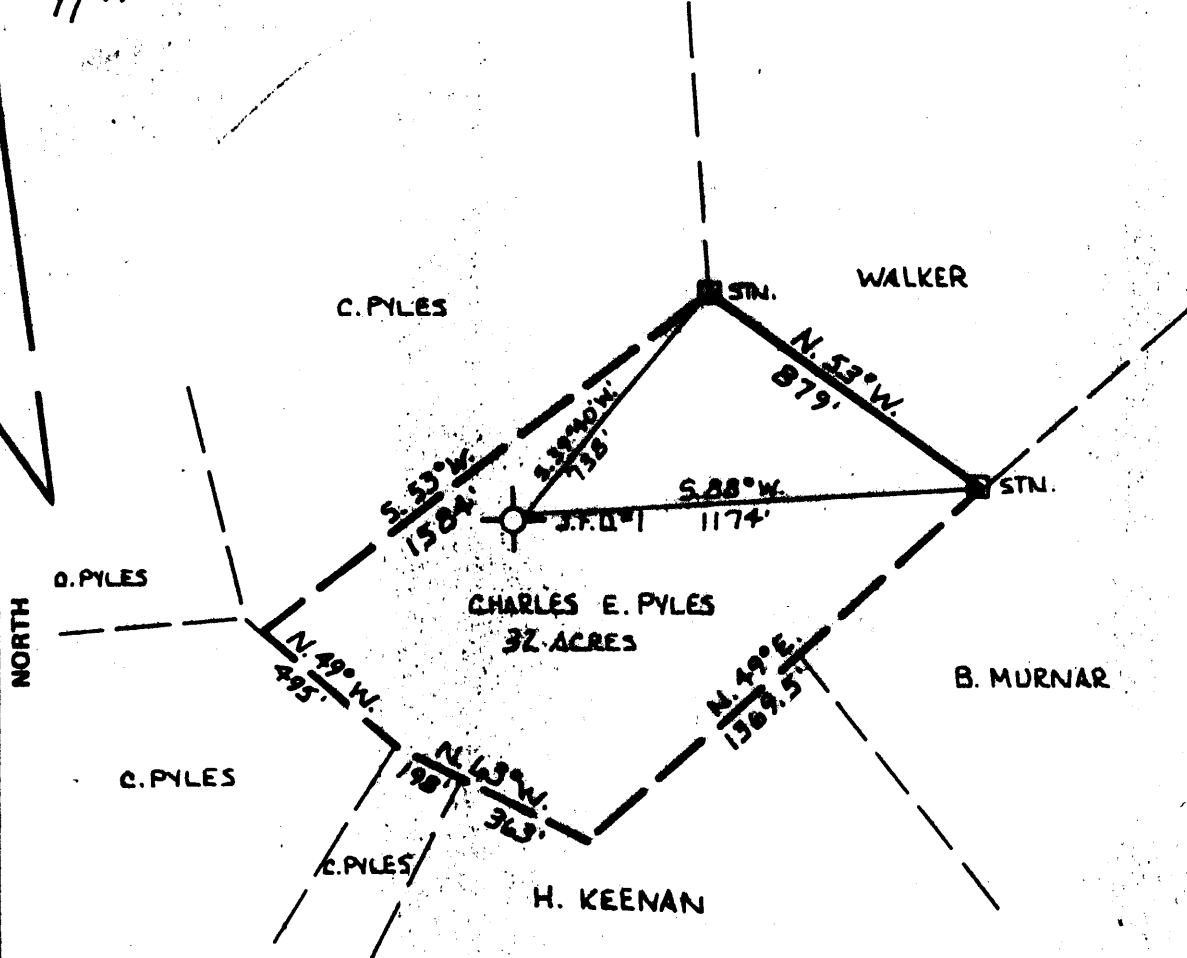


*Janice*  
4/9/92

LATITUDE 39-32-30

LONGITUDE 80-47-30

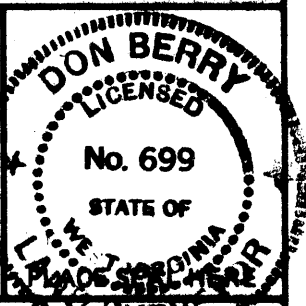


NO WELLS IN THIS AREA AS OF NOVEMBER 3, 1991.

**DON BERRY, L.L.S.**  
Tyler County Surveyor  
Main St. Middlebourne, WV 26149  
Phone 758-4044

FILE NO. 81-1042  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:1200  
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION - 833'

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) Don Berry  
R.P.E. \_\_\_\_\_ L.L.S. 699



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6 (8-78)



DATE NOVEMBER 21, 1991  
OPERATOR'S WELL NO. J.F.D.  
API WELL NO. 47-095-0906-Frac  
STATE COUNTY PERMIT  
For Canceled

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

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1221' WATER SHED \_\_\_\_\_  
DISTRICT ELLSWORTH COUNTY TYLER  
QUADRANGLE PORTERS FALLS  
SURFACE OWNER CHARLES E. PYLES ACREAGE 32  
OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 32  
LEASE NO. \_\_\_\_\_  
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 WATER SHED ESTIMATED DEPTH 4400'  
WELL OPERATOR GEOCO Oil & Gas DESIGNATED AGENT Kia G. Lynch  
ADDRESS 329 So. 7th St. Martinsburg, Ohio 44750 ADDRESS 445 93 Waverly, West Virginia

TYLER 0906 F

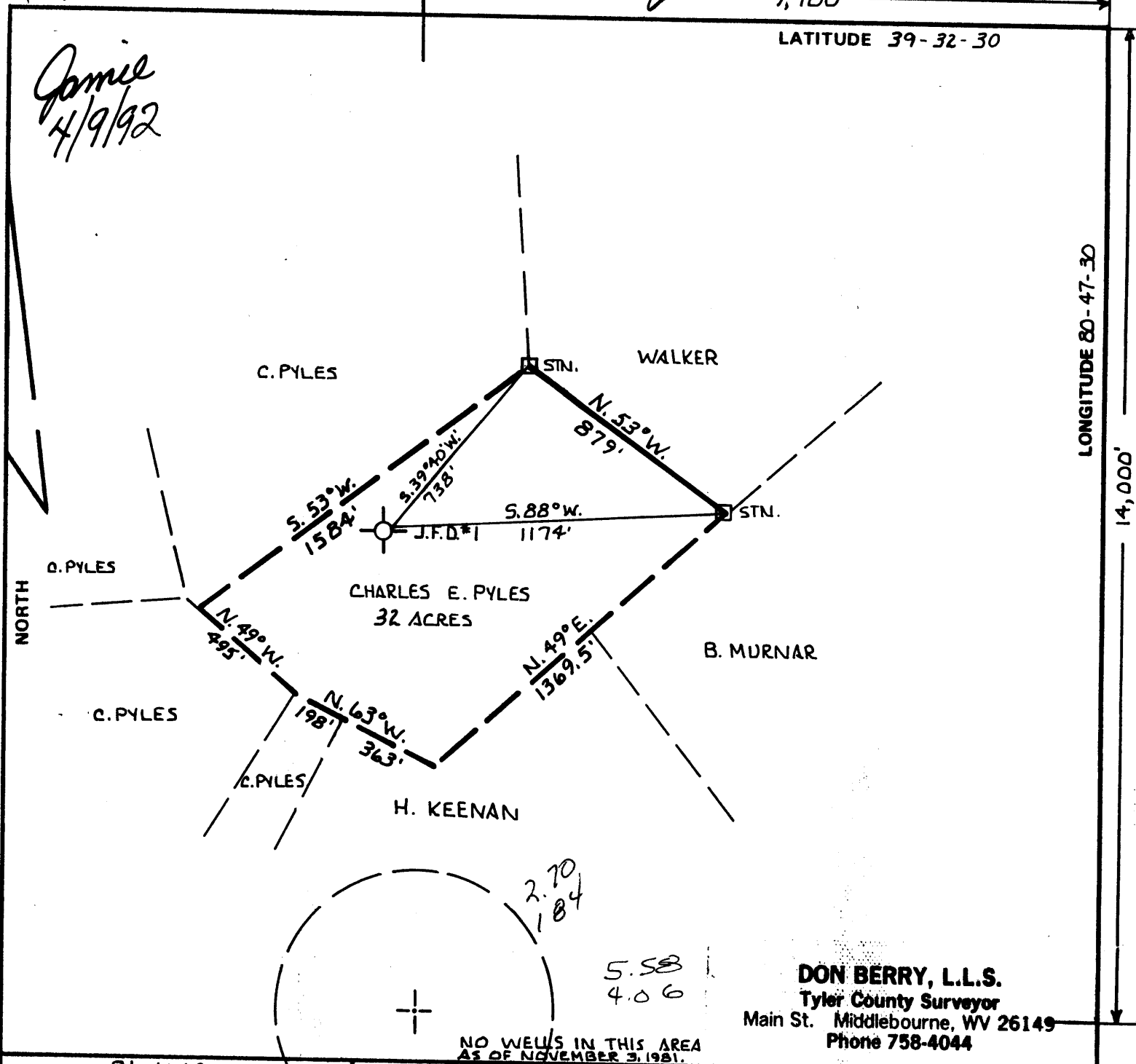
*Jamie*  
4/9/92

9,700'

LATITUDE 39-32-30

LONGITUDE 80-47-30

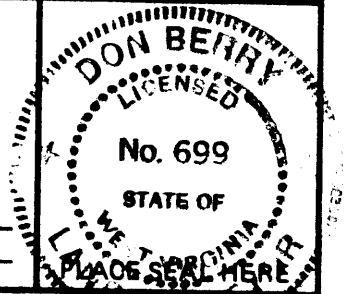
14,000'



**DON BERRY, L.L.S.**  
Tyler County Surveyor  
Main St. Middlebourne, WV 26149  
Phone 758-4044

FILE NO. 81-1042  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:1200  
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION # 833'

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) Don Berry  
R.P.E. \_\_\_\_\_ L.L.S. 699



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE NOVEMBER 2 JULY  
OPERATOR'S WELL NO. J.F.D.\*1  
API WELL NO. \_\_\_\_\_  
47 - 095 - 0966-FRAC  
STATE COUNTY PERMIT

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

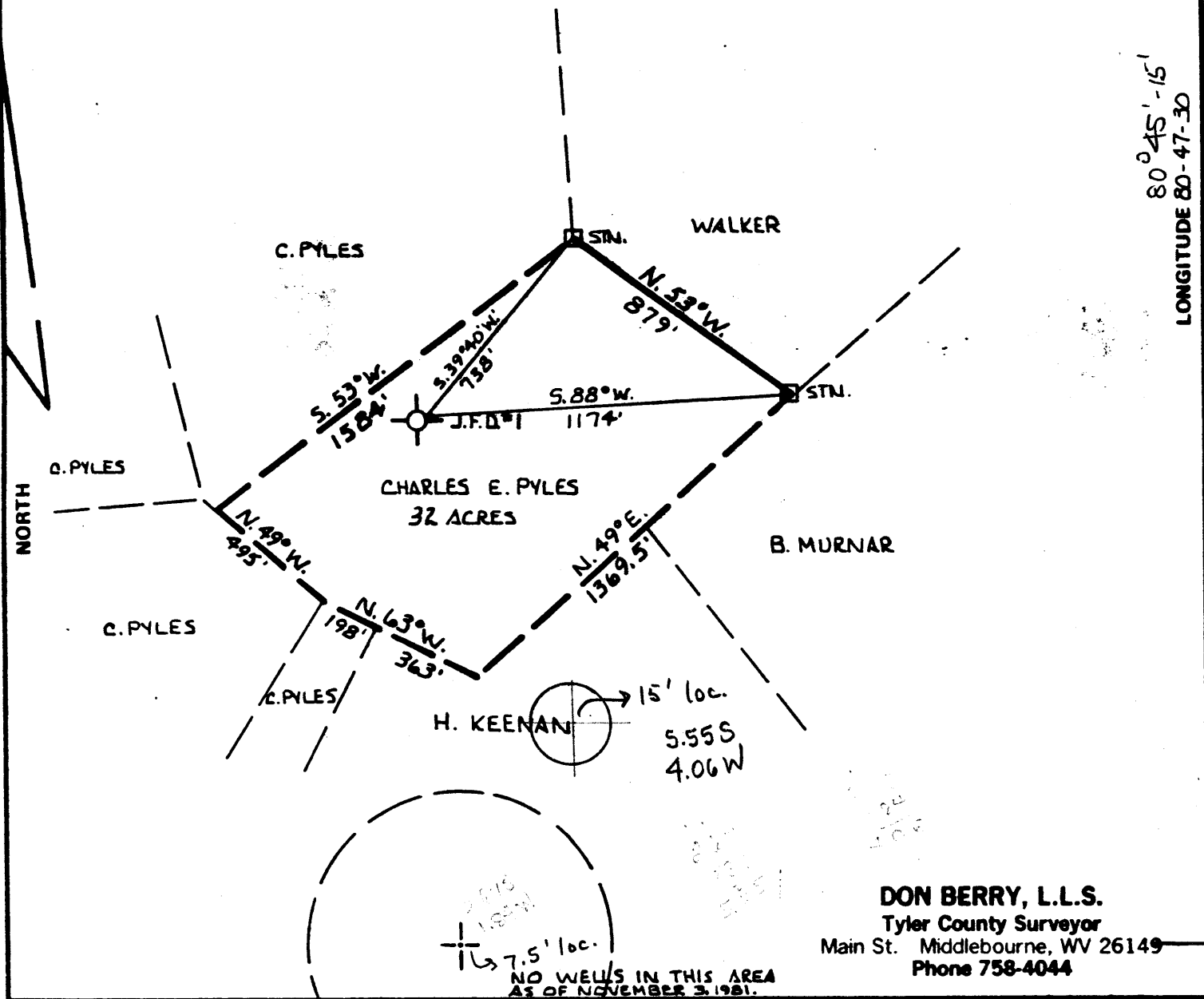
WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1221' WATER SHED \_\_\_\_\_  
DISTRICT ELLSWORTH 2 COUNTY TYLER  
QUADRANGLE PORTERS FALLS  
SURFACE OWNER CHARLES E. PYLES ACREAGE 32  
OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 32  
LEASE NO. \_\_\_\_\_  
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 UPPER DEVONIAN HAMPSHIRE FORMATION ESTIMATED DEPTH 4,400'  
WELL OPERATOR: GEDCO OIL & GAS DESIGNATED AGENT Kimberly Lynch  
ADDRESS 329 S. 7th St. Marietta, Ohio 45750 ADDRESS Box 93 Waverly, West Virginia

Plot Card

LATITUDE 39-32-30  
39°35'-15"

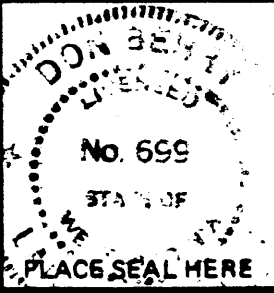
LONGITUDE 80-45'-15"  
80°47'-30"



**DON BERRY, L.L.S.**  
 Tyler County Surveyor  
 Main St. Middlebourne, WV 26149  
 Phone 758-4044

FILE NO. 81-1042  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:1200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION = 833'

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) Don Berry  
 R.P.E. \_\_\_\_\_ L.L.S. 699



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE NOVEMBER 2, 1981  
 OPERATOR'S WELL NO. J.F.D. #1  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0966  
 STATE COUNTY PERMIT

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1221' WATER SHED \_\_\_\_\_  
 DISTRICT ELLSWORTH COUNTY TYLER  
 QUADRANGLE PORTERS FALLS New Martinsville 15 SE  
 SURFACE OWNER CHARLES E. PYLES ACREAGE 32  
 OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 32  
 LEASE NO. \_\_\_\_\_  
 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 HAMPSHIRE FORMATION ESTIMATED DEPTH 4,400'  
 WELL OPERATOR FREDRICK DESIGNATED AGENT JAMES F. DOAN  
 ADDRESS RT. #1 ADDRESS P.O. BOX 31  
MARIETTA, OHIO MIDDLEBOURNE, W.V. 26149

NOV 19 1981



IV-35  
(Rev 8-81)

RECEIVED  
SEP 28 1983

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 8-22-83  
Operator's  
Well No. #2  
Farm J. Doan  
API No. 47 - 095 - 0966

OIL & GAS DIVISION WELL OPERATOR'S REPORT  
DEPT. OF MINES OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil <sup>?</sup>  / Gas <sup>?</sup>  / Liquid Injection  / Waste Disposal   
(If "Gas," Production  / Underground Storage  / Deep  / Shallow )

LOCATION: Elevation: 1221' Watershed Gorrells Run  
District: Ellsworth County Tyler Quadrangle Porters Falls

COMPANY Frederick Petroleum Corporation  
ADDRESS Rt. 1, Box 124, Marietta, OH  
DESIGNATED AGENT Jim Doan  
ADDRESS P.O. Box 31, Middlebourne, WV  
SURFACE OWNER Charles Pyles  
ADDRESS Gorrells Run, Middlebourne, WV  
MINERAL RIGHTS OWNER James F. Doan  
ADDRESS P. O. Box 31, Middlebourne, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracey  
ADDRESS Alma, WV  
PERMIT ISSUED Nov. 6, 1981  
DRILLING COMMENCED 4-29-82  
DRILLING COMPLETED 5-5-82  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1284'	1284'	Surface
5 1/2			
4 1/2	4400'	4400'	2200'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Ohio Shale Depth 4400' feet  
Depth of completed well 4600' feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 90' feet; Salt 1500' feet  
Coal seam depths: 200, 400, 500 Is coal being mined in the area? No

OPEN FLOW DATA *Dry hole*  
Producing formation Ohio Shale Pay zone depth 4400' feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 0 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 1 hours  
Static rock pressure 150 psig (surface measurement) after 1 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation none Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Open hole 4400-4600

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	25	
Sand			25	200	
Silt			200	350	
Lime			350	490	
Sand			490	600	
Shale			600	800	
Sand			800	1200	
Silt			1200	1500	
Sand			1500	1600	
Shale			1600	TD	
				4600-TD.	
					Huron @ TD.

(Attach separate sheets as necessary)

Frederick Petroleum Corporation  
Well Operator

By: Kevin Berry

Date: 9-21-83

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

REC'D  
 WV Div. of  
 Environmental Protection  
 APR 01 1992  
 Permitting  
 Office of Oil & Gas

095-0966 FRAC 095-0966- Frac

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

Page of  
 Issued 4/16/92  
 Expires 4/16/94

- 1) Well Operator: COAL OIL & GAS, INC. 19660 (2) 583
- 2) Operator's Well Number: JFD #2 3) Elevation: 1255
- 4) Well type: (a) Oil  or Gas   
 (b) If Gas: Production  / Underground Storage   
 Deep  / Shallow
- 5) Proposed Target Formation(s): Gordon 419
- 6) Proposed Total Depth: 3300 feet
- 7) Approximate fresh water strata depths: N/A 90'
- 8) Approximate salt water depths: N/A 1500'
- 9) Approximate coal seam depths: N/A 200, 400, 500'
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: RECOMPLETE WELL IN GORDON SANDSTONE  
WELL HAS NEVER BEEN FRACTURED
- 12) FRAC EXISTING ON WELL

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water						
Coal						
Intermediate	8 5/8"	20lb/FT			1284'	CTS
Production	4 1/2"	16.5lb/FT			3337'	340 SKS
Tubing					4400'	150 SKS
Liners						up to 2200'

13515-

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond CD Blanket Agent

RECEIVED

Division of Environmental Protection

APR 1 1992

Permitting Office of Oil & Gas

STATE OF WEST VIRGINIA (47-095-0966-FRAC) DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

- 1) Date: 3/30/92
2) Operator's well number
3) API Well No: 47 - 095 - 0966F State - County - Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: (a) Name CHARLES PYLES Address RT. 1 BOX 309 MIDDLEBURNE, WVA 26149
5) (a) Coal Operator: Name N/A Address
(b) Coal Owner(s) with Declaration Name N/A Address
6) Inspector MIKE UNDERWOOD Address RT. 2 BOX 135 SALEM, W.VA. 26426 Telephone (304)-782-1043
(c) Coal Lessee with Declaration Name N/A 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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

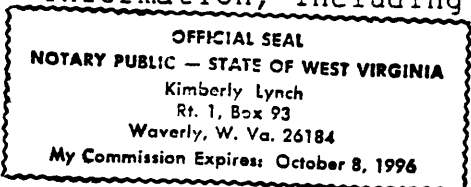
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:

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

I have read and understand Chapter 22B 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: GOW OIL & GAS, INC.
By: Kimberly Lynch
Its: OPERATIONS MANAGER
Address: 329 SW 7th St. MARLBOROUGH, OHIO 45750
Telephone: 614-374-2940

Subscribed and sworn before me this 30 day of March, 1992

Kimberly Lynch Notary Public My commission expires 10/8/96



Well No. JFD #2  
Farm Charles Pyles  
API # 47 - 095 - 0966  
Date 11-4-1981

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil  / Gas

(If "Gas", Production \_\_\_ / Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /

LOCATION: Elevation: 1221 Watershed: Gorrells Run  
District: Ellsworth County: Tyler Quadrangle: Porters Falls

WELL OPERATOR FREDERICK PETROLEUM  
Address Rt. 1  
Marietta, Ohio 45750

DESIGNATED AGENT JAMES F. DOAN  
Address P.O. Box 31  
Middlebourne, WV 26149

OIL AND GAS ROYALTY OWNER James F. Doan  
Address P.O. Box 31  
Middlebourne, WV 26149  
Acreage 692

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

SURFACE OWNER Charles Pyles  
Address Gorrells Run  
Middlebourne, WV 26149  
Acreage 40

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME James F. Doan  
Address \_\_\_\_\_  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME none  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Phillip Tracey  
Address \_\_\_\_\_  
Alma, WV  
Telephone 758-4573

**RECEIVED**

NOV - 6 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease XXX / other contract \_\_\_ / dated July 17, 1981, to the undersigned well operator from James F. Doan.

(If said deed, lease, or other contract has been recorded:)

Recorded on July 22, 1981, in the office of the Clerk of County Commission of Tyler County, West Virginia, in 232 Book at page 113 A permit is requested as follows:

PROPOSED WORK: Drill XX / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

**BLANKET BOND** By: \_\_\_\_\_

Its: Vice President

FREDERICK PETROLEUM  
Well Operator

By: Thomas R. Loyd  
Its: Vice President



(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Shale

Estimated depth of completed well 4400' feet. Rotary  Cable tools

Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: \_\_\_\_\_

Is coal being mined in this area: Yes  No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling	Left in Well		
Conductor	<u>8 5/8</u>			<input checked="" type="checkbox"/>			<u>800'</u>	<u>Shale</u>	Kinds
Fresh water									
Coal									Sizes
Intermed.									
Production Tubing	<u>4 1/2</u>			<input checked="" type="checkbox"/>			<u>4400'</u>	<u>Shale</u>	Depths set
Liners									Perforations: Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, this location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 7-12-82.

J. B. Murray  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: \_\_\_\_\_, 19\_\_\_\_.

By: \_\_\_\_\_

Its: \_\_\_\_\_