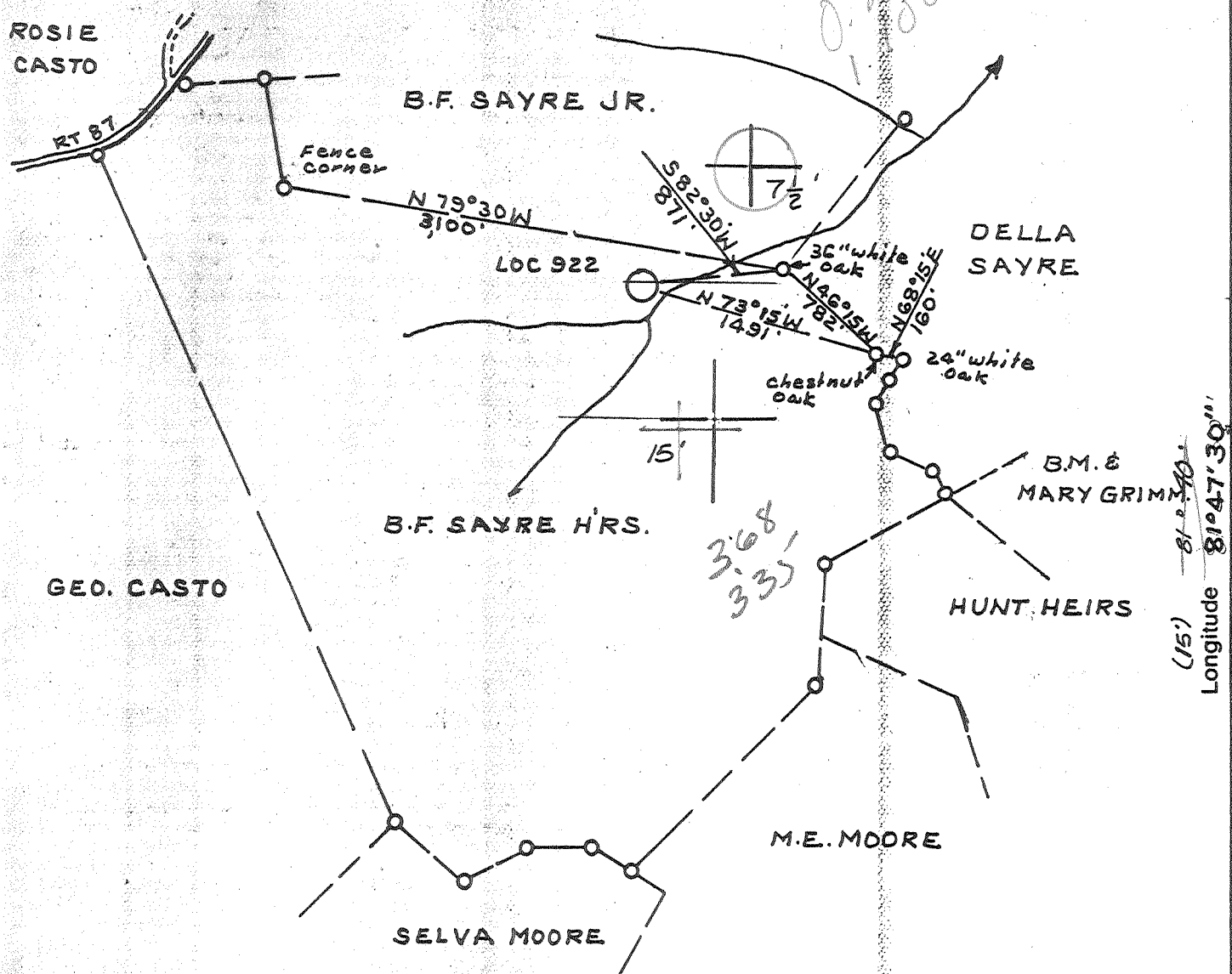


Jamie 4/17/89

Latitude 38°47'30"
(15') 38°50'

5850 5850' 6/2/78

4150'



source of elevation U.S.G.S.
B.M. TOP knob 2700' West of
well Location El. 1119.0

New Location
 Storage
 Drill Deeper
 Abandonment
 Re-Drill/Fracture

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of West Virginia.
 Minimum degree of accuracy is one part in 200
 Land Surveyors License N992 Legg Star Rt Box 549-B
 Sissonville WVA
 Signed C. J. Yalley Jr.

Company Quinco Petroleum, Inc.
 Address Box 1433 Charleston, W. 25325
 Farm B.F. SAYRE HEIRS, CHARLES & LEO WEDGE
 Lease 3280 Acres 265
 Well Farm No. 1 Ser. No. 922
 Elevation - Spirit Level 750.0'
 Quadrangle COTTAGEVILLE, RAVENSWOOD 15
 Township or District RIPLEY 3
 County JACKSON
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates _____
 File No. _____ Dwg. No. _____
 Date 5-25-78 Scale 1" = 1,000'

1039

WELL LOCATION MAP
THE STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

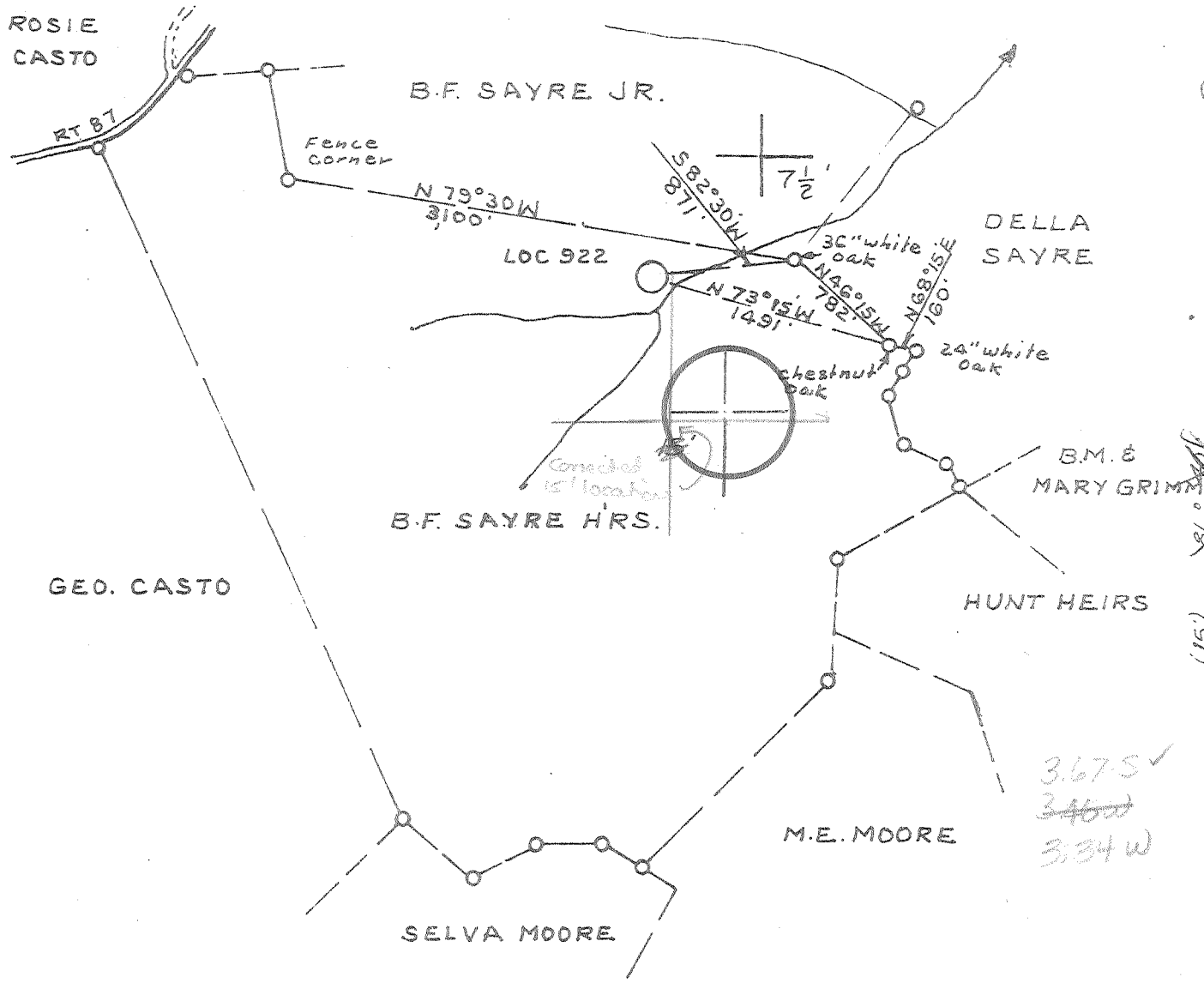
JAC-1445 - Frac.

Scale 15' □ 7 1/2' ■ APR 21 1989

47-035

4875 D. ...

5850'
 Latitude 38°47'30"
 (15') 38°50'
 4150'
 81°45'
 Longitude 81°47'30"
 (15')



3.67 S ✓
~~3.46 S~~
 3.34 W

Source of elevation U.S.G.S.
 B.M. TOP KNOB 2700' West of
 well location

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of West Virginia. Minimum degree of accuracy is one part in 200. Land Surveyors License N992 Legg Star Rt Box 549-B Sissonville WVA. Signed C. J. Yalley Jr."

Company DEVON CORP
 Address P.O. BOX 1433 CHARLESTON
 Farm B.F. SAYRE HEIRS, CHARLES & LEO WEDGE
 Lease 3280 Acres 265
 Well Farm No. 1 Ser. No. 922
 Elevation - Spirit Level 750.0' SF
 Quadrangle COTTAGEVILLE, RAVENSWOOD 15
 Township or District RIPLEY
 County JACKSON
 Sec., Lot, Gr. _____ T _____ R _____
 Coordinates _____
 File No. _____ Dwg. No. _____
 Date 5-25-78 Scale 1" = 1000'

WELL LOCATION MAP
 THE STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

JAC-1445
 Scale 15' 7 1/2'

Deep Well 47-035 JUN 7 1978

1275 D. 1/2" = 1000' (359)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

SEP - 4 1979
47-035-1445
OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 11

Quadrangle Cottageville

Permit No. JAC-1445

Rotary XXX Oil XXX
Cable _____ Gas XXX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company DEVON CORPORATION
Address Box 1433, Charleston, WV
Farm K. M. Click (B. F. Sayre, Hrs) 265 ac.
Location (waters) Left. Fk. of Johns Run
Well No. 922 Elev. 750
District Ripley County Jackson
The surface of tract is owned in fee by Charles & Leo Wedge

Address Rt. 1, Leon, WV 25123
Mineral rights are owned by K. M. Click
Address 208 Henrietta St., Ravenswood WV

Drilling Commenced December 26, 1978
Drilling Completed January 1, 1979
Initial open flow 5 MCFD ~~XXXX~~ bbls.
Final production 3.9 MMCFD ~~XXXX~~ per day bbls.
Well open 12 hrs. before test 1650 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	199	199	100 sax=to surface
8 5/8			
7	2482	2482	75 sax=625'
6 1/2			
4 1/2		4765	200 sax=2400'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing 4716' to 4718' with 16 shots

Fractured Oriskany Sand with 865 BBLS water & 43,000# sand

3,900 MCF

Coal was encountered at None reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4716-4718

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	10		
Sand			10	23		
Shale			23	83		
Sand			83	110		
Shale			110	168		
Sand			168	190		
Shale			190	412		
Sand			412	430		
Shale			430	498		
Sand			498	507		
Shale			507	557		
Sand			557	577		
Shale			577	910		
Sand			910	927		
Shale			927	1068		
Sand			1068	1177		
Shale			1177	1242		
Broken Sand			1242	1460		
Shale			1460	1560		
Sand			1560	1620		
Shale			1620	1675		
Maxon Sand			1675	1754		
Shale			1754	1772		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Big Lime			1772	1906		
Shale			1906	1926		
Injun Sand			1926	2022		
Shale			2022	2381		
Coffee Shale			2381	2405		
Berea Sand			2405	2416		
Shale			2416	3584		
Brown Shale			3584	4052		
Shale			4052	4439		
Marcellus Shale			4439	4606		
Onondaga L. S.			4606	4683		
Oriskany Sand			4683	4719		
Helderberg L. S.			4719	4789		
Log Total Depth				4789		

Date January 9 19 79

APPROVED *A. C. Youse* (Owner)
 By A. C. Youse
 (Title) Dist. Geologist

15

035-1445-F
 Issued 4/18/84 Expires 4/18/89
 Page 3 of 8

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

- 1) Well Operator: Quinoco Petroleum, Inc. 40475 3 307
- 2) Operator's Well Number: B. F. Sayre 922 (K. M. Click) 3) Elevation: 750
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Berea/Brown Shale
- 6) Proposed Total Depth: 4100' feet
- 7) Approximate fresh water strata depths: None Reported
- 8) Approximate salt water depths: None Reported
- 9) Approximate coal seam depths: None Reported
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Rework well by recementing, perforating and fracturing the Berea and Brown Shale
- 12)

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	9 5/8"			199	199	100 sacks to surface
Coal						
Intermediate	7"			2482	2482	75 Sacks
Production	4 1/2"				4765	2407' By Log
Tubing						
Liners						

RECEIVED
 MAR 30 1984

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: 100 Well Work Permit 100 Reclamation Fund 100 WPCP
 Plat 100 WW-9 100 WW-2B 100 Bond Blanket Agent 100
 (Type)

8514

RECEIVED
MAR 30 1989

- 1) Date: MARCH 3 1989
- 2) Operator's well number
B. F. Sayre #922
- 3) API Well No: 47 - 035 - 1445 - FRAC.
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Charles & Leo Wedge</u>
Address <u>Route 1</u>
<u>Leon, WV 25123</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____ N/A
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____ N/A
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ N/A
Address _____</p> |
| <p>6) Inspector <u>Jerry Tephahock</u>
Address _____
<u>Ripley, WV 25271</u>
Telephone (304)- <u>372-6805</u></p> | |

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 8 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 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 QUINOCO PETROLEUM, INC.
By: [Signature]
Its: _____ District Manager/Designated Agent
Address 1207 Quarrier Street (P.O.Box 1433)
Charleston, WV 25325
Telephone 304/342-6193

Subscribed and sworn before me this 3RD day of MARCH, 1989

[Signature] Notary Public
My commission expires DECEMBER 9, 1997



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUN - 1 1978

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE May 9, 1978

Surface Owner Charles & Leo Wedge
Address Rt. 1, Leon, W. Va. 25123
Mineral Owner Mrs. K. M. Click, et al
Address 208 Henrietta St., Ravenswood, WV 26164
Coal Owner Same as above
Address Same as above
Coal Operator Not operated
Address _____

Company DEVON CORPORATION
Address Box 1433, Charleston, WV 25325
Farm B. F. Sayre Hrs. Acres 265 ac
Location (waters) Left Fk. of Johns Run
Well No. 922 Elevation 750
District Ripley County Jackson
Quadrangle Cottageville

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 10-2-78.

INSPECTOR
TO BE NOTIFIED Richard Morris
ADDRESS Grantsville, WV
PHONE 354-7259

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 20 1969 by Mrs. K. M. Click, et al made to Commonwealth Gas and recorded on the _____ day of _____ 19 , in Jackson County, Book 109 Page 542
XXX _____ NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, DEVON CORPORATION
(Sign Name) A. C. Youse
A. C. Youse District Geologist
PO Box 1433
Street
Charleston,
City or Town
West Virginia 25325
State

W. VA. OIL & GAS CONSERVATION COMMISSION
613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Address
of
Well Operator

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOARD

JAC-1445 PERMIT NUMBER

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME FWA Drilling Co. NAME Bill Endicott
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 1433, Charleston, WV
 TELEPHONE 965-3379 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 4875 ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8	200	200	100 sax=to surface
8 - 5/8			
7	2550	2550	75 sax=625'
5 1/2			
4 1/2		4875	150 sax=1800'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None anticipated
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title