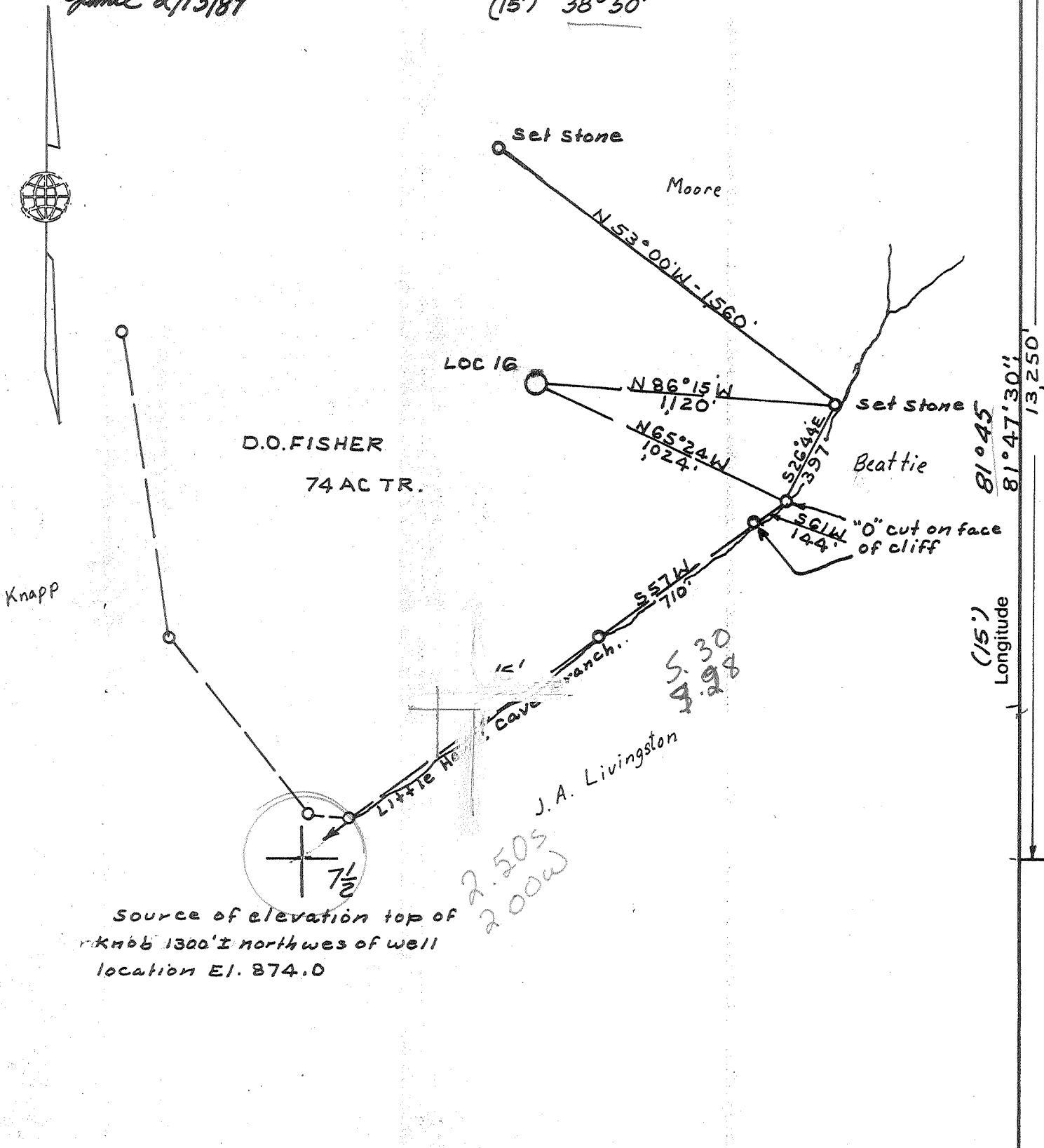


5/19/89

10,600'

Latitude 38°47'30"  
(15') 38°50'

Jamie 2/13/89



Source of elevation top of knob 1300'± northwest of well location El. 874.0

- 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 Surveyor License N992 Legg Star RT BOX 549-B  
 Sissonville WVA 25320  
 Signed C. Y. Volley Jr.

Company Quinolo Petroleum Inc. 1039  
 Address 1207 Quarrier Street East, Chas. W. 25301  
 Farm D.O. FISHER, Ralph Fisher  
 Lease 2698 Acres 74  
 Well Farm No. 1 Ser. No. 916  
 Elevation - Spirit Level 850.0'  
 Quadrangle COTTAGEVILLE, Ravenswood 15'110  
 Township or District UNION 9 SE  
 County MASON  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates \_\_\_\_\_  
 File No. \_\_\_\_\_ Dwg. No. \_\_\_\_\_  
 Date 5-18-78 Scale 1"=500'

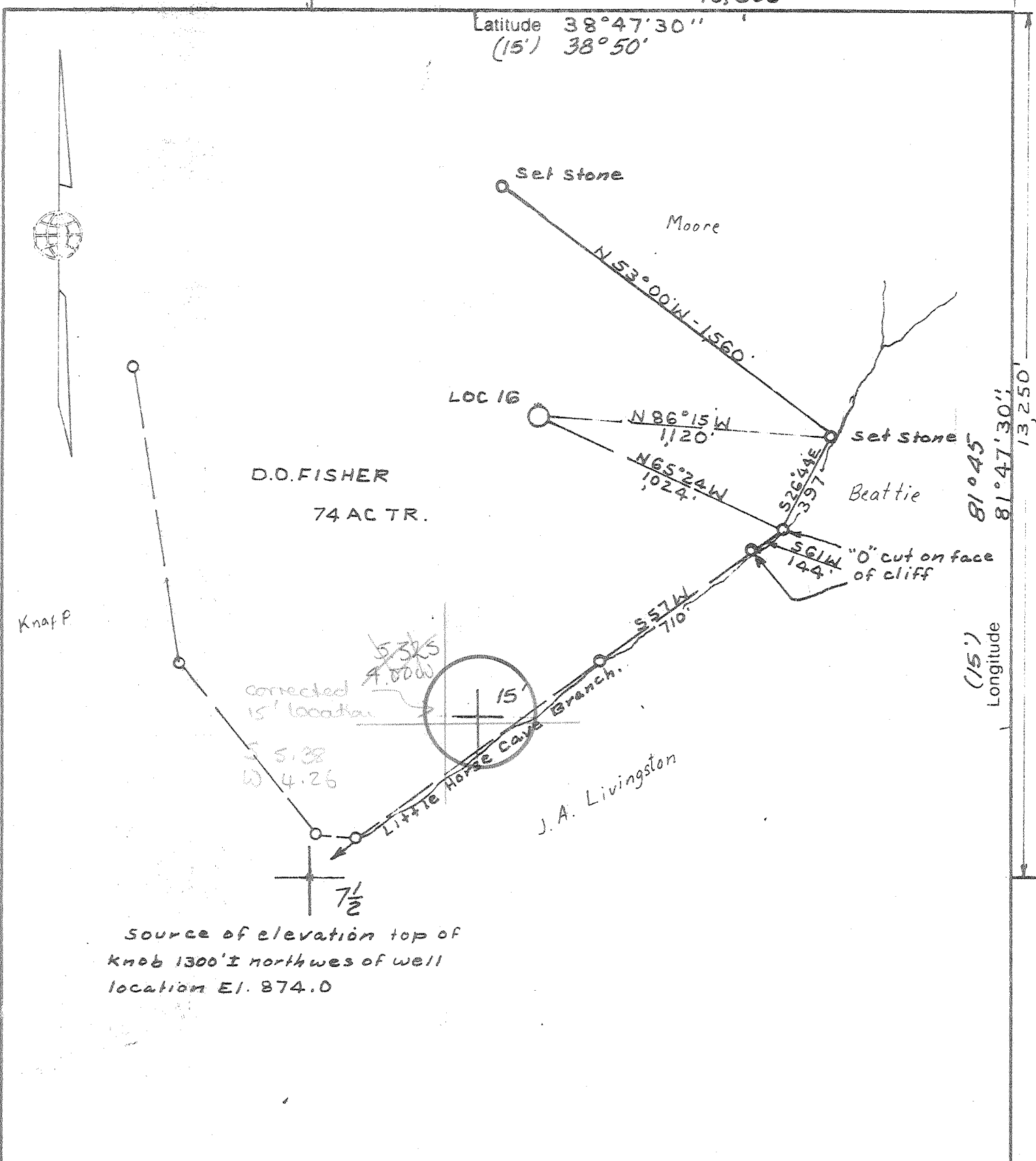
**WELL LOCATION MAP**  
**STATE OF WEST VIRGINIA**

(+) Denotes Values Of Well On United States Topographic Maps  
**47-053-0166 - Frac.**  
 Scale 15'  7 1/2'

FEB 17 1989

DEEP WELL 4975' Criskany 6.0 Providence (359)

Latitude 38°47'30"  
(15') 38°50'



D.O. FISHER  
74 AC TR.

Knaf P.

corrected  
15' location  
5.325  
7.0000

S 51° 38' W  
4.26

Little Horse Cave Branch  
J.A. Livingston

Source of elevation top of  
Knob 1300'± northwest of well  
location El. 874.0

- 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 Surveyor License No. 92 Legg Star RT Box 549-B  
Sissonville WVA 25320  
Signed C. J. Volley Jr.

Company DEVON CORP.  
Address P.O. BOX 1433 CHARLESTON W.V.  
Farm D.O. FISHER, Ralph Fisher  
Lease 269E Acres 74  
Well Farm No. 1 Ser. No. 916  
Elevation - Spirit Level 850.0' SE  
Quadrangle COTTAGEVILLE, Ravenswood 15'  
Township or District UNION  
County MASON  
Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Coordinates \_\_\_\_\_  
File No. \_\_\_\_\_ Dwg. No. \_\_\_\_\_  
Date 5-18-78 Scale 1"=500'

**WELL LOCATION MAP**  
**STATE OF WEST VIRGINIA**

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

**47-053-0166**

Scale 15'  7 1/2'

*WAS MK-MA*

(359)

FEB 6 1979

Deep Well 4175' (in hole) 6-6 Foster Chap (548)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

WELL RECORD <sup>10</sup>

Quadrangle Cottageville

Permit No. 47-053-166

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

Company DEVON CORPORATION  
Address Box 1433, Charleston, WV  
Farm Dollie O Fisher Acres 74  
Location (waters) Little Horse Cave Run  
Well No. 916 Elev. 850  
District Union County Mason  
The surface of tract is owned in fee by \_\_\_\_\_  
Ralph & Dollie Fisher  
Address Box 8, Evans, WV 25241  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced August 29, 1979  
Drilling Completed September 7, 1979  
Initial open flow 40 MCFD ~~xxx~~ bbls.  
Final production 3,033 MCFD ~~xxx~~ day bbls.  
Well open 22 hrs. before test 1700 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	264	264	125 sax=to su
8 5/8			
7	2538	2538	75 sax=650'
5 1/2			
4 1/2		4865	225 sax=2400'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

4 1/2" casing perforated 4791 to 4793 with 16 shots.

Frac Oriskany Sand with 52,500# sand and 955 BBLs water.

Coal was encountered at None reported Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Oriskany Sand Depth 4791 to 4793

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	155		
Sand			155	180		
Shale			180	235		
Sand			235	308		
Shale			308	480		
Sand			480	505		
Shale			505	965		
Broken Sand			965	1015		
Shale			1015	1160		
Salt Sand			1160	1257		
Shale			1257	1345		
Sand			1345	1410		
Shale			1410	1480		
Sand			1480	1535		
Shale			1535	1690		
Broken Sand			1690	1765		
Shale			1765	1830		
Maxon Sand			1830	1865		
Big Lime			1865	1988		
Shale			1988	2038		
Injun Sand			2038	2179		
Shale			2179	2483		
Coffee Shale			2483	2504		
Berea Sand			2504	2517		

(over)

JUN 17 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			2517	3682		
Br. Shale			3682	4140		
Shale			4140	4540		
Marcellus Shale			4540	4693		
Onondaga L. S.			4693	4766		
Oriskany Sand			4766	4794		
Helderberg L. S.			4794	4906		
Log Total Depth				4906		

Date OCTOBER 21 1979

APPROVED [Signature] Own

By DISTRICT GEOLOGIST

(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
JAN - 8 1979

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 5, 1979

Surface Owner Ralph & Dollie Fisher  
Address Box 8, Evans, W. Va. 25241  
Mineral Owner Dollie O. Fisher  
Address Box 8, Evans, W. Va. 25241  
Coal Owner SAME AS ABOVE  
Address \_\_\_\_\_  
Coal Operator NOT OPERATED  
Address \_\_\_\_\_

Company Devon Corporation  
Address PO Box 1433, Charleston, WV  
Farm Dollie O. Fisher Acres 74  
Location (waters) Little Horse Cave Run  
Well No. 916 Elevation 850  
District UNION County Mason  
Quadrangle Cottageville

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All 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 9-10-79.

INSPECTOR KENNETH BUTCHER  
ADDRESS BARBOURSVILLE, W V  
PHONE 736-4885

*Robert T. [Signature]*  
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 April 28 1976 by D.O. Fisher made to Devon & Eason and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 1976, in Mason County, Book 40 Page 635  
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.

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

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 PERMIT

**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 COMPANY 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: 4975 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	250	250	100 sax = TO SURFACE
8 - 5/8			
7	2675	2675	75 sax = 625'
5 1/2			
4 1/2		4975	200 sax = 2400'
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

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

- 1) Well Operator: Quinoco Petroleum, Inc. **40475, 9, 307**
- 2) Operator's Well Number: Dollie Fisher 916 3) Elevation: 850'
- 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: ±4140 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: Recomplete well in the Berea and Brown Shale. (Work Procedure attached)
- 12) Squeeze & frac New Formation

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	9 5/8"			264	264	100 sxs to surface
Coal						Ectonizing 75 sxs 2530' by log
Intermediate	7"			2538	2538	
Production	4 1/2"				4865	
Tubing					4771	
Liners						

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

**RECEIVED**  
FEB 13 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

1989  
0000 793  
3

**RECEIVED**  
FEB 13 1989

- 1) Date: February 8, 1989
- 2) Operator's well number  
Dollie Fisher 916
- 3) API Well No: 47 - 053 - 0166 -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>Dolly &amp; Ralph Fisher</u><br/>Address <u>Box 8</u><br/><u>Evans, WV 25241</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u><br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u><br/>Address _____</p> |
| <p>6) Inspector <u>Jerry Tephacock</u><br/>Address <u>Route 1, Box 101-A</u><br/><u>Ripley, WV 25271</u><br/>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 \_\_\_\_\_ 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: *Dollie Fisher*  
 Its: Designated Agent  
 Address 1207 Quarrier Street, East  
Charleston, WV 25301  
 Telephone 304/342-6193

Subscribed and sworn before me this 8th day of February, 19 89

*Sharon Allison* Notary Public  
 My commission expires March 27, 1990





WR-35

RECEIVED  
APR 06 1990

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date 4-4-90  
Operator's \_\_\_\_\_  
Well No. 912  
Farm Fisher  
API No. 47 - 053 - 0166 - F

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 850.0 Watershed Little Horse Cave Run of 13 Mile Creek  
District: Union County Mason Quadrangle Cottageville

COMPANY Quinoco Petroleum, Inc

ADDRESS P. O. Box 1433, Charleston, WV

DESIGNATED AGENT Bill W. Backus

ADDRESS Same

SURFACE OWNER Ralph & Dollie Fisher

ADDRESS Box 8, Evans WV 25241

MINERAL RIGHTS OWNER Same

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephacock ADDRESS Rt. 1, Box 101A Ripley, WV

PERMIT ISSUED 2-14-89

DRILLING COMMENCED 7-31-89

DRILLING COMPLETED 3-5-90

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	264	264	To surface
8 5/8			
7	2538	2538	75 sxs
5 1/2			
4 1/2		4865	225 sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale/Berea Depth 4137 feet

Depth of completed well \_\_\_\_\_ feet Rotary \_\_\_ / Cable Tools \_\_\_\_\_

Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet

Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3690'-4137' feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 19.0 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 990 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation \_\_\_\_\_ 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

APR 16 1990

(Continue on reverse side)

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

1. Set drillable bridge plug at 4240'. Perforated 4½" casing and squeezed 50 sxs neat cement. Top of cement behind 4½" - 1822'
2. Perforated Brown Shale 3690'-4137' with 34 shots. Foam frac with 302 bbls water 750 sxs sand and 622 MScf N<sub>2</sub>.
3. Perforated Berea 2507'-2511' with 32 shots. Frac with 466 bbls water, 420 sxs sand Not commercial
4. Ran tubing with packer set at 2600.9'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See Original					

**RECEIVED**  
APR 06 1990

DIVISION OF OIL & GAS  
(DEPARTMENT OF ENERGY)

*Spence*  
*True Record*  
*only No change*  
*to original*  
*OK Jimmie*

(Attach separate sheets as necessary)

Quinoco Petroleum, Inc  
Well Operator

By: *Bill W. Backus*

Date: *4-5-90*

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."