





1) Date: April 30, 19 84  
 2) Operator's Moore #1  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 - 107 - 1309  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep  / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: 673' Watershed: Neal Run  
 District: Lubeck County: Wood Quadrangle: S. Parkersburg
- 6) WELL OPERATOR Larry Morris  
 Address Route 1  
Washington, W.V. 26181
- 7) DESIGNATED AGENT Larry Morris  
 Address Route 1  
Washington, W.V. 26181
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Glen P. Robinson  
 Address Route 1 #6 Mt. Pleasants Estate  
Minerwells, W.V. 26150
- 9) DRILLING CONTRACTOR:  
 Name Camden Moore  
 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 4700 feet
- 13) Approximate trata depths: Fresh, 650' feet; salt, 450' feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes
- 15) CASING AND TUBING PROGRAM

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 OIL & GAS DIVISION  
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	10"			X		200'	<del>200'</del> Neat	CTS		by Rule 15.05
Coal										Sizes
Intermediate	8 1/4"			X		950	<del>950</del>			
Production	7"			X		1700	<del>1700</del>			Depths set
Feeding <u>Coal</u>	4 1/2"			X		4700	4700	470 SIB		OR 45 1720
Liners										Perforations: <u>01 Rule 15.01</u>
										Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-107-1309 Date May 29, 19 84

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 reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires May 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>SINGLE</b>	Agent: <u>[Signature]</u>	Flat <u>[Signature]</u>	Casing <u>[Signature]</u>	Fee <u>100</u>
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[Signature]  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

IV-35  
(Rev 8-81)

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MAY 6 - 1985

OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date April 22, 1985  
Operator's  
Well No. Moore #1  
Farm Camden Moore  
API No. 47 - 107 - 1309

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 X / Underground Storage \_\_\_ / Deep X / Shallow \_\_\_ /)

LOCATION: Elevation: 673 Watershed Neal Run  
District: Lubeck County Wood Quadrangle South Parkersburg

COMPANY Larry M. Morris  
ADDRESS Rt. 1, Washington, WV  
DESIGNATED AGENT Larry Morris  
ADDRESS Rt. 1, Washington, WV  
SURFACE OWNER Camden Moore  
ADDRESS Rt. 4, Parkersburg, WV  
MINERAL RIGHTS OWNER Same  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Glen  
Robinson ADDRESS Mineral Wells  
PERMIT ISSUED April 30, 1984  
DRILLING COMMENCED June 12, 1984  
DRILLING COMPLETED Feb. 12, 1985  
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.			
<del>10</del> 10"	214	214	
9 5/8			
8 5/8	905		
7	1650		
5 1/2			
4 1/2	4328	4328	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 4400 feet  
Depth of completed well 4328 feet Rotary \_\_\_ / Cable Tools X  
Water strata depth: Fresh None feet; Salt 1496 feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3000-3650 feet  
Gas: Initial open flow 5000 Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow 793,000 Mcf/d Final open flow None Bbl/d  
Time of open flow between initial and final tests 90 hours  
Static rock pressure 750 psig (surface measurement) after 24 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

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

15 Holes 3542 - 3660 - Huron  
 16 Holes 2998 - 3160 Huron  
 Frac. 1,500,000 cu. ft. Nitrogen  
 500 gal. Acid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock & Slate			0	500	
Sand			500	539	
Red Rock & Slate			539	802	
Sandy Shells			802	1455	
Sand			1455	1513	Show of Gas ✓
Sandinjun			1513	1635	Water Hole Full
Slate & Shells			1635	1920	
Brown Shale			1920	1950	
Sand Brea			1950	1952	Show of oil ✓
Slate & Shells			1952	3100	
Brown Shale			3100	3218	
Slate & Shells			3218	3354	
Slate			3354	3477	
Brown Swale			3477	3670	Show of Gas ✓
Grey Shale			3670	4000	
Brown Shale			4000	4267	Set permanant plug at 4360
Lime			4267	4368	
<u>Oriskany Sand</u>			4368	<u>4400</u>	Water T.D. 4400

4400  
 673  
 3727

(Attach separate sheets as necessary)

Larry M. Morris

Well Operator

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

Date: 4/25/85

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."