

LATITUDE 39° 17' 30" (15') 37° 20'

Frum 100 Ac

Sandy 35.81 Ac.

N71-15W 839'

Proposed Well Elev. 1210'

Clear 130 Ac.

542-44W 3077' 7.5' Topo.

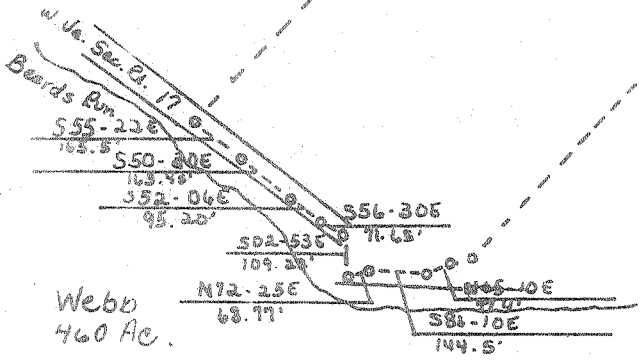
Clear 58 Ac.

15' 4.258 1.68W

Clear 57 Ac.

N42-50E 3165'

A. 542-50W, 271.17'  
 B. 586-39W, 368.32'  
 C. N68-04E, 594.40'



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS BM Oral Lake 1026, USGS Rosemont

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) Harper D. Norton  
 R.P.E. L.L.S. 624  
 Norton Surveys & Consulting, Inc.

PLACE SEAL HERE

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



DATE May 22, 1982  
 OPERATOR'S WELL NO. Clear #2  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 2397  
 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 1210' WATER SHED Beard's Run  
 DISTRICT Simpson COUNTY Harrison  
 QUADRANGLE Rosemont 7 1/2 & FAIRMONT 15' 5W  
 SURFACE OWNER Charles G. Cleer ACREAGE 58  
 OIL & GAS ROYALTY OWNER Charles G. Cleer LEASE ACREAGE 58  
 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 \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR NRM Petroleum Corp. DESIGNATED AGENT R. L. Hopkins  
 MAIL ADDRESS Box 816 ADDRESS Box 816  
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201  
6-6 Bridgemont-Princeton (110)



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD "

Quadrangle Rosemont 7 1/2

Permit No. 47-033-2397

Union Drilling  
Rig #1  
Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company <u>NRM Petroleum Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 816, Buckhannon, WV 26201</u>	Size			
Farm <u>Cleer</u> Acres <u>58</u>	<u>20-16</u>			
Location (waters) <u>Beards Run</u>	Cond.			
Well No. <u>2</u> Elev. <u>1210</u>	<u>200" 11 3/4</u>	<u>40</u>	<u>40</u>	
District <u>Simpson</u> County <u>Harrison</u>	<u>9 5/8</u>			
The surface of tract is owned in fee by <u>Charles G. Cleer</u>	<u>8 5/8</u>	<u>1071.00</u>	<u>1071.00</u>	<u>280 Sks. Dowell</u>
Address <u>Rt. 1, Box 115, Bridgeport, WV</u>	<u>7</u>			
Mineral rights are owned by _____ Address _____	<u>5 1/2</u>			
Drilling Commenced <u>10-31-80</u>	<u>4 1/2</u>		<u>4477'</u>	
Drilling Completed <u>11-5-80</u>	<u>3</u>			
Initial open flow <u>84 M</u> cu. ft. _____ bbls.	<u>2</u>			
Final production <u>1,517</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>3</u> hrs. before test <u>1050 RP.</u>				

Well treatment details:

Attach copy of cementing record.

Benson Perforations - 12 holes, 4390-94

Benson Frac - Breakdown 2900#, average pressure 2550#, average rate

31.6 BPM, total fluid 425 bbl, shut-in pressure 1900#

10,000# of 80/100 sand and 30,000# of 20/40 sand.

OVER MORE PERFS →

Coal was encountered at _____ Feet _____ Inches
Fresh water <u>40', 395'</u> Feet _____ Salt Water _____ Feet _____
Producing Sand <u>Benson, Balltown, 4th and 5th Sand</u> Depth _____
<u>4382-98 3026-30 2261-64 2347-60</u>

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	25		
Sand and Shale			25	30		
Sand			30	56		Hole Damp @ 40'
Sand and Shale			56	100		
Sand			100	147		1 1/2" Water @ 395'
Sand and Shale			147	582		Oil @ 395'
Sand			582	637		Gas Chk. @ 610' - No Show
Sand and Shale			637	737		
Sand			737	1210		
Sand and Shale			1210	1271		
Little Lime			1271	1283		
Shale			1283	1310		
Big Lime			1310	1388		
Big Injun			1388	1474		Gas Chk. @ 1392' - No Show
Siltstone and Shale			1474	1814		Gas Chk. @ 1486' - No Show
Gantz			1814	1846		Gas Chk. @ 1641' - No Show
Sand and Shale			1846	2209		Gas Chk. @ 1859' - No Show
Fourth Sand			2209	2296		Gas Chk. @ 2174' - No Show
Shale			2296	2329		
Fifth Sand			2329	2382		Gas Chk. @ 2613' - No Show
Siltstone and Shale			2382	2969		Gas Chk. @ 3365' - No Show
Speechley			2969	3057		Gas Chk. @ 3678' - No Show

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Formation	Color	Hard or Soft	Top Feet "	Bottom Feet	Oil, Gas or Water	• Remarks
Siltstone and Shale			3057	4382		Gas Chk. @ 4024' - No Show
Benson			4382	4398		Gas Chk. @ 4368' - 37 M
Siltstone and Shale			4398			Gas Chk. @ 4430' - 280 M
TOTAL DEPTH				4550		Gas Chk. @ TD - 84 M
Well Logged By Allegheny Nuclear Surveys						
Initial Open Flow - 84 Mcf/Day						
Balltown Perforations - 12 holes, 3026-30						
Balltown Frac - Breakdown 2900#, average pressure 2666#, average rate 33.4 BPM, total fluid 405 bbl., shut-in pressure 1400#						
10,000# of 80/100 sand and 30,000# of 20/40 sand.						
4th and 5th Sand Perforations - 6 holes 2261-64, 3 holes 2347, 3 holes 2360						
4th and 5th Sand Frac - Breakdown 3200#, average pressure 2741#, average rate 19 BPM, total fluid 395 bbl., shut-in pressure 1700#						
10,000# of 80/100 sand and 30,000# of 20/40 sand.						

Date Nov. 19 19 80

APPROVED NRM Petroleum Corporation Owner  
*John C. Moore* Gen Supt.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED  
JUN 17 1980

OIL AND GAS WELL PERMIT APPLICATION  
DIVISION  
DEPT. OF MINES

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

DATE June 3, 1980

Surface Owner Charles G. Cleer  
Address Rt. 1 Box 115 Bridgeport, WV  
Mineral Owner Charles G. Cleer  
Address Rt. 1 Box 115 Bridgeport, WV  
Coal Owner Hillman Coal & Coke Company  
Address Rt. 1 Box 115 Bridgeport, WV  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company NRM Petroleum Corporation  
Address P.O. Box 816 Buckhannon, WV  
Farm Cleer Acres 58  
Location (waters) Beards Run  
Well No. #2 Elevation 1210  
District Simpson County Harrison  
Quadrangle Rosemont

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 2-18-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS 321 Beech St. Clarksburg, WV 26301  
PHONE 622-3871

Robert S. [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 26 1976 by Charles G. Cleer, et ux made to Partnership Properties Co and recorded on the 5 day of May 1976 in Harrison County, Book 1043 Page 718

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:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours, Bill Hall  
(Sign Name) \_\_\_\_\_  
Well Operator  
P.O. Box 816  
Street  
Buckhannon  
City or Town  
West Virginia 26201  
State

BLANKET BOND

\*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.

033  
HARRISON-2397  
PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

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

PROPOSED WORK ORDER TO  DRILL  DEEPEN  FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME Union Drilling Company

NAME Rickard L. Hopkins

ADDRESS Drawer 40 Buckhannon, WV 26201

ADDRESS P.O. Box 816 Buckhannon, WV

TELEPHONE (304) 472-4610

TELEPHONE (304) 472-9113

ESTIMATED DEPTH OF COMPLETED WELL: 4520

ROTARY  CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Benson

TYPE OF WELL: OIL  GAS  COMB.  STORAGE  DISPOSAL   
 RECYCLING  WATER FLOOD  OTHER

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	FEET IN WELL	CEMENT PUT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	900'	900'	Cement to surface
7			
5 1/2			
4 1/2		4520'	125 sx.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS 548' - 554'

IS COAL BEING MINED IN THE AREA? 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 Sellman 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 Sellman 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.

Emery Jacobs  
 For Coal Company  
Chief Engineer  
 Official Title