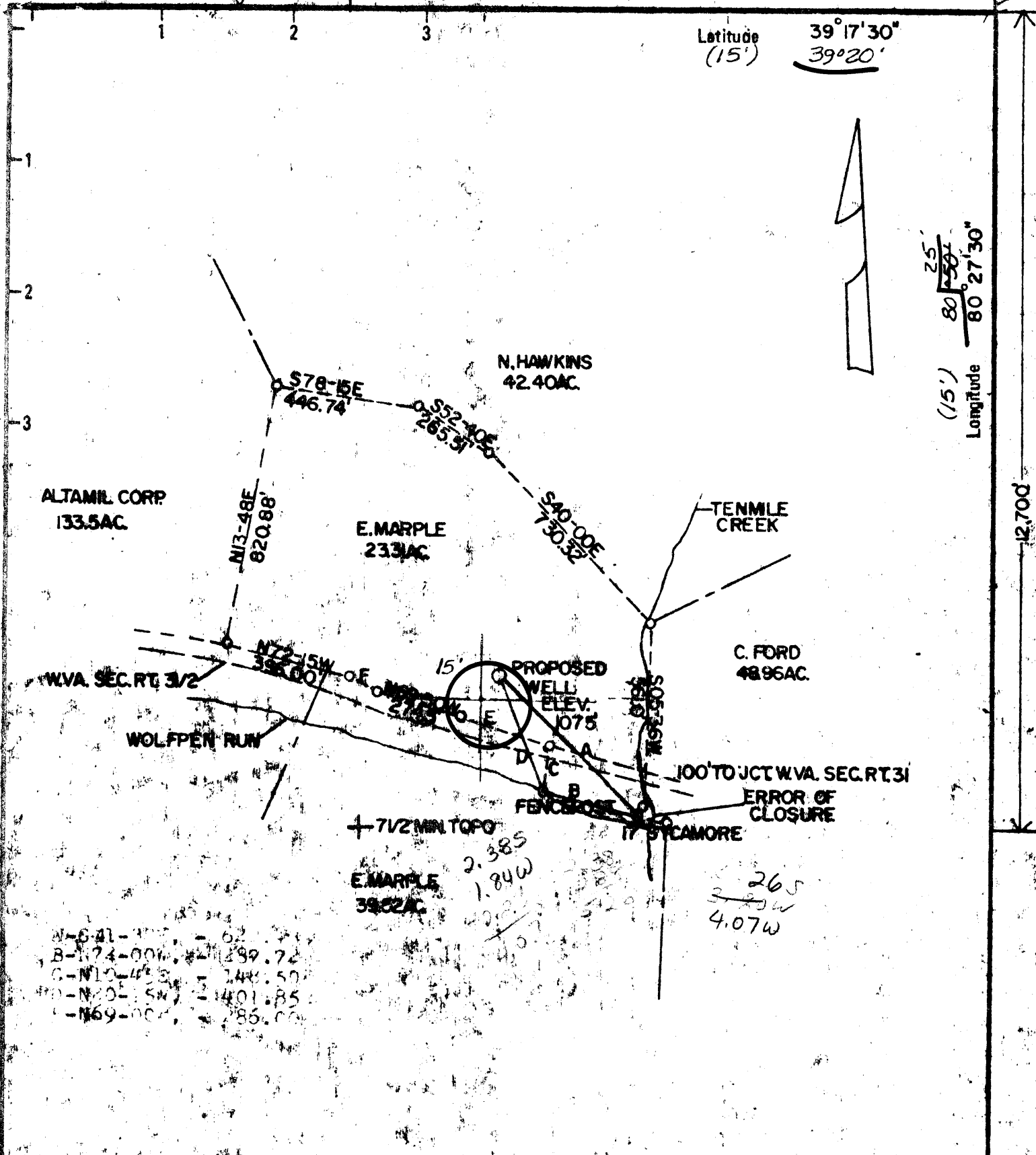


Latitude 39° 17' 30"
(15') 39° 20'

Longitude 80° 27' 30"
(15') 80° 30'



N-6-41-100' = 62.72
B-174-00W = 189.72
C-N10-40E = 248.50
D-N20-15W = 401.85
E-N69-00E = 285.00

<p>New Location <input checked="" type="checkbox"/></p> <p>Drill Deeper <input type="checkbox"/></p> <p>Abandonment <input type="checkbox"/></p>	<p>Minimum Error of Closure in 1000'</p> <p>Source of Elevation <i>alt. at 1075' ± 0.5'</i></p> <p>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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.</p>
--	--

Company NRM Petroleum Corporation

Address PO Box 1918 Glenville, W. Va.

Farm E. Marple

Tract _____ Acres 23.31 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1075'

Quadrangle Oil Unit, Clarksburg 15'

County Harrison District Tennile

Engineer J. K. Snyder

Engineer's Registration No. 205511

File No. _____ Drawing No. _____

Date June 11, 1978 Scale _____

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

WELL LOCATION MAP
FILE NO. HAR-1701

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-033 JUL 10 1978

5000' 6-6 JARVISVILLE 151



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD 14

RECEIVED

SEP 28 1978

OIL & GAS DIVISION
DEPT. OF MINES
Union Drilling Co.
Rig No. 7

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

Quadrangle Wolf Summit

Permit No. Har-1701

Company NRM Petroleum Corp.
Address Box 190, Glenville, W.Va.
Farm E. Marple Acres 23.31
Location (waters) Wolf Pen Run
Well No. #1 Elev. 1080 EKB
District Ten Mile County Harrison
The surface of tract is owned in fee by _____
Same
Address _____
Coal rights are owned by Peter I. Lynch
Address _____
Drilling Commenced 6-24-78
Drilling Completed 6-29-78
Initial open flow 27M cu. ft. _____ bbls.
Final production 280M cu. ft. per day _____ bbls.
Well open _____ hrs. before test 950# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-1/2 11 3/4"	15'	15'	
9 5/8			
8 5/8	771'	771'	200 sks. Hal.
7			
5 1/2			
4 1/2	--	4825'	550 sks. Hal.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Benson - Frac wi 500 gal. Hcl & 10,000# 80/100, 30,000# 20/40 in 490 bbl. water

Balltown - Frac wi 500 gal Hcl & 10,000# 80/100, 30,000# 20/40 Mn 470 bbl. water

Lower Fifth - Frac wi 500 gal. Hcl & 16,000# 20/40 in 250 bbl water

Coal was encountered at _____ Feet _____ Inches

Fresh water 80' Feet _____ Salt Water _____ Feet _____

Producing Sand Benson, Balltown, L. 5th Depth 4576-89; 3386-3513; 2592-2604
16 holes 14 holes 14 holes

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10	1" H ₂ O	80'
Shale			10	14		
Sand			14	143		
Sand & Shale			143	427		
Red Rock			427	460		
Sand			460	490		
Red Rock			490	518		
Shale			518	580		
Red Rock			580	590		
Shale			590	608		
Sand			608	760		
Shale & sand			760	974		
Sand			974	1024		
Sand & shale			1024	1400		
Sand			1400	1436		
Sand & shale			1436	1528	Gas check	1528' - none
Sand			1528	1546		
Shale			1546	1568		
Lit. Lime			1568	1590		
Shale			1590	1608		
Big Lime			1608	1680		
Injun			1680	1750		
Sand & shale			1750	1908		
Shale & sand			1908	2148		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>14</i>	Bottom Feet	Oil, Gas or Water
Fifty Foot			2148	2160	<p style="text-align: center;">RECEIVED</p> <p style="text-align: center;">SEP 28 1978</p> <p style="text-align: center;">OIL & GAS DIVISION DEPT. OF MINES</p> <p>Gas check - 2424' - none</p> <p>Gas check - 2760' - 58 M</p> <p>Gas check - 3658' - 27 M</p> <p>Gas check - 4458' - 22 M</p> <p>Gas check - 4612' - 31 M</p> <p>FOF = 27 M</p>
Shale & sand			2160	2250	
Gordon - Gordon Stry.			2250	2354	
Shale			2354	2362	
Fourth			2362	2392	
Shale & sand			2392	2552	
Fifth			2552	2572	
Shale			2572	2598	
Low. Fifth			2598	2608	
Shale & siltstone			2608	3350	
Balltown			3350	3510	
Shale & siltstone			3510	4574	
Benson			4574	4614	
Shale & siltstone			4614	4747	
Sand			4747	4757	
Shale & siltstone			4757	--	
Total Depth			--	5020	

Well logged by: Allegheny Nuclear Surveys.

HAR-1701

Date August 29, 19 78

APPROVED NRM Petroleum Corp. Owner

By D. Gene Haney, Cons. Geol.
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUN 23 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.

Surface Owner Edwin and Delpha Marple
Address Rt. 1 Wolfe Summit, W.Va.
Mineral Owner Edwin and Delpha Marple
Address Rt. 1 Wolfe Summit
Coal Owner Peter I. Lynch
Address _____
Coal Operator None
Address _____

DATE 6-19-78
Company ESM Petroleum Corporation
Address P.O. Box 190 Glenville, W.Va.
Farm E. Marple Acres 23.31
Location (waters) Wolf Pen Run
Well No. # 1 Elevation 1075
District Tennile County Harrison
Quadrangle Wolf's Summit

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 10-23-78.

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

Robert H. Road
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 Feb. 11 1974 by Edwin R. Marple et. ux. made to Consolidated Gas Supply and recorded on the 1 day of April 1974 in Harrison County, Book 1020 Page 1636
 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,
(Sign Name) Richard L. Hopkins
Well Operator
P.O. Box 190
Street
Glenville
City or Town
W.Va. 26351
State

*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

**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 Co. NAME Rick L. Hopkins
 ADDRESS Suchhannon, W.Va. ADDRESS P.O. Box 190 Glenville, W.Va
 TELEPHONE 472-4610 TELEPHONE 462-7916
 ESTIMATED DEPTH OF COMPLETED WELL: 5000 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	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	850	850	Cement to surface
7			
5 1/2			
4 1/2		4600	200 sbs
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____

APPROXIMATE COAL DEPTHS _____

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