

A. S 8-31W 193'  
 B. N 42-30W 195'  
 C. N 73-42E 167'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION USGS BM ZINNIA 898  
USGS BIG ISSACC QUAD.

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) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. 624

PLACE SEAL HERE

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



DATE SEPT 18 19 79  
 OPERATOR'S WELL NO. ZINN 1  
 API WELL NO. 47 - 017 - 2485-REV  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

*Drilling Cancelled*

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1060' WATER SHED TRAUGH FORK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISSACC VADIS 15'  
 SURFACE OWNER ROGER ZINN ACREAGE 27.08  
 OIL & GAS ROYALTY OWNER ROGER ZINN LEASE ACREAGE 27.08  
 LEASE NO. HUGH GARRETT HRS.  
 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 DEVONIAN SH. ESTIMATED DEPTH 5268  
 WELL OPERATOR NRM PETROLEUM CORP. DESIGNATED AGENT R.L. HOPKINS  
 ADDRESS BOX 816 ADDRESS BOX 816  
BUCKHANNON W.VA. 26201 BUCKHANNON W.VA. 26201

APR 23 1984

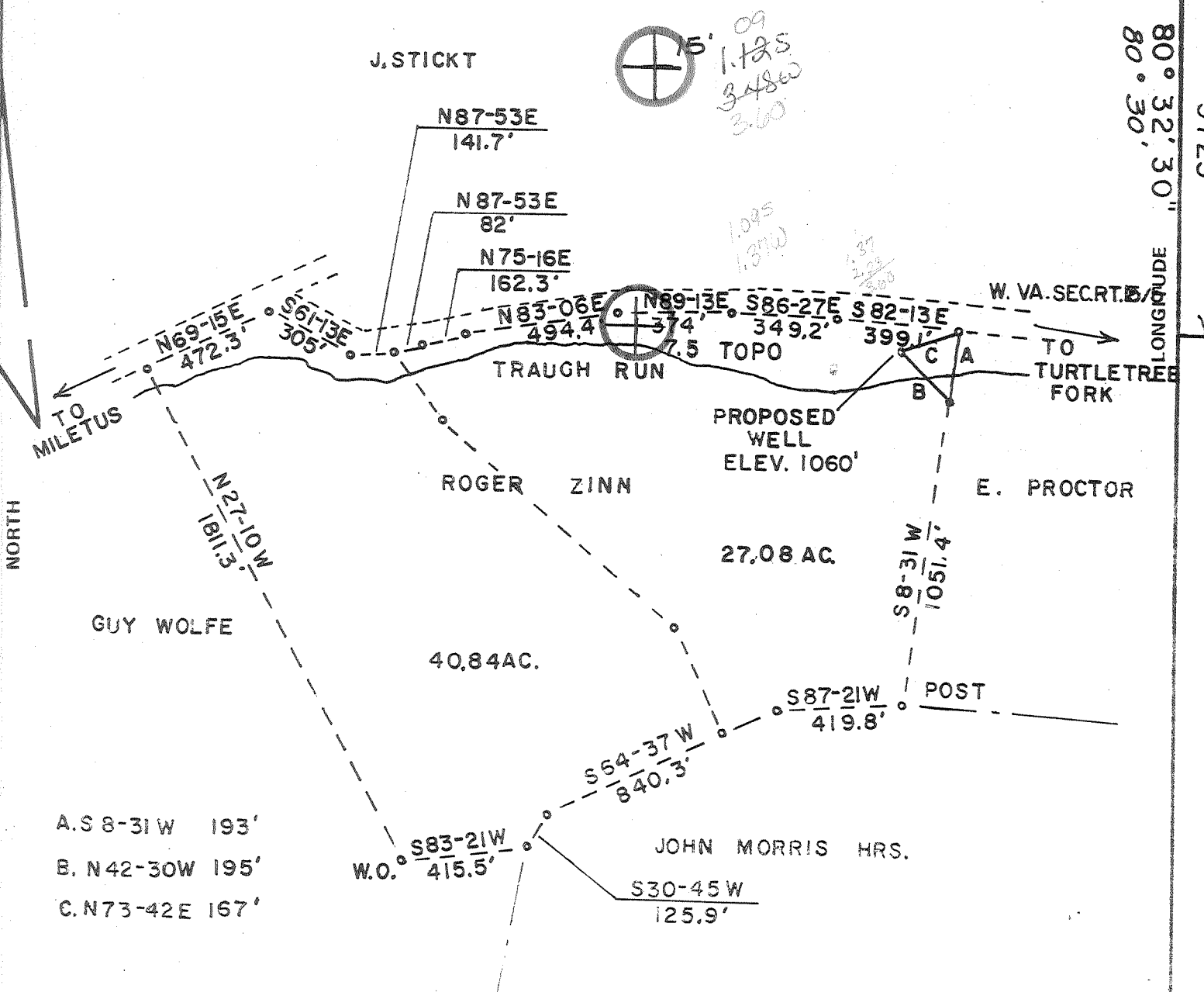
7150'

LATITUDE 39° 15' 00"

80° 32' 30"

5725'

LONGITUDE



15' 09  
1.125  
3486  
3.60

1.095  
1.370

1.37  
2.22  
2.88

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION USGS BM ZINNIA 898  
USGS BIG ISSACC QUAD.

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) [Signature]  
R.P.E. \_\_\_\_\_ L.L.S. 624

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

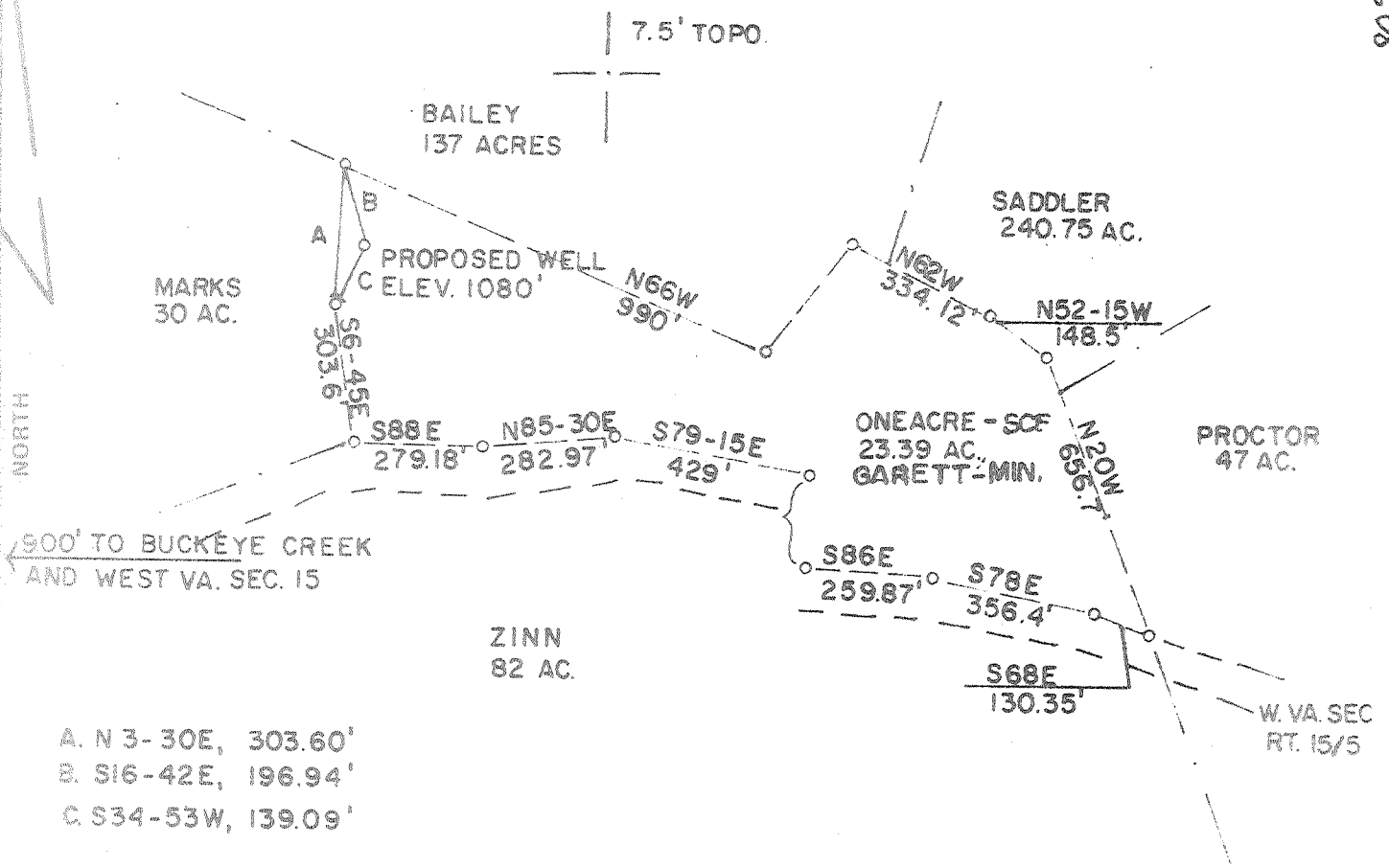
DATE SEPT 18 1979  
OPERATOR'S WELL NO. ZINN 1  
API WELL NO. \_\_\_\_\_  
47 - 017 - 2485-REV  
STATE COUNTY PERMIT

*Drilling Cancelled*

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
LOCATION: ELEVATION 1060' WATER SHED TRAUGH FORK  
DISTRICT GREENBRIER COUNTY DODDRIDGE  
QUADRANGLE BIG ISSACC VADIS 15' NE  
SURFACE OWNER ROGER ZINN ACREAGE 27.08  
OIL & GAS ROYALTY OWNER ROGER ZINN LEASE ACREAGE 27.08  
LEASE NO. HUGH GARRETT HRS.  
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 DEVONIAN SH. ESTIMATED DEPTH 5268  
WELL OPERATOR NRM PETROLEUM CORP. DESIGNATED AGENT R.L. HOPKINS  
ADDRESS BOX 816 ADDRESS BOX 816  
BUCKHANNON W.VA. 26201 BUCKHANNON W.VA. 26201

MAR 9 1981



- A. N 3-30E, 303.60'
- B. S16-42E, 196.94'
- C. S34-53W, 139.09'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION USGS BM ZINNIA 898  
 USGS BIG ISSACC QUAD.

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) Wayne D. Gordon  
 R.P.E. \_\_\_\_\_ L.L.S. 624

PLACE SEAL HERE

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



DATE AUGUST 24, 1979  
 OPERATOR'S WELL NO. ONEACRE - 1  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 2485  
 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 1080' WATER SHED \_\_\_\_\_  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISSACC VARDIS 15' NE  
 SURFACE OWNER ONEACRE ACREAGE 23.39  
 OIL & GAS ROYALTY OWNER GARRETT LEASE ACREAGE 23.39  
 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 Devonian Shale ESTIMATED DEPTH 5500' SEP 24 1979  
 WELL OPERATOR NRM PETROLEUM CORP. DESIGNATED AGENT R.L. HOPKINS  
 ADDRESS 816 BUCKHAMMON W VA 26201 ADDRESS BOX 816 BUCKHAMMON W VA 26201

[06-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. H. Garrett # 1

API Well No. 47-017-2485  
State County Permit

WELL TYPE: Oil  / Gas

(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 1080' Watershed: \_\_\_\_\_

District: Greenbrier County: Doddridge Quadrangle: Big Issac

WELL OPERATOR NRM Petroleum Corporation

DESIGNATED AGENT Rickard L. Hopkins

Address P.O. Box 816

Address P.O. Box 816

Buckhannon, WV 26201

Buckhannon, WV 26201

WELL & GAS STATELY OWNER Hugh Garrett Heirs  
C/O R.S. Smallridge, Agent

COAL OPERATOR \_\_\_\_\_

Address 29 College Street

Address \_\_\_\_\_

Buckhannon, WV 26201

Address 23.5

COAL OWNER(S) WITH DECLARATION ON RECORD:

PRIVATE OWNER Robert L. & Patricia D. Oneacre

Name Unknown

Address Rt .3

Address \_\_\_\_\_

Salem, WV

Address 23.5

Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

PERSONAL CONTACT TO BE NOTIFIED

COAL LESSEE WITH DECLARATION ON RECORD:

Name Paul Garrett

Name \_\_\_\_\_

Address 321 Beech Street

Address \_\_\_\_\_

Clarksburg, WV 26301

622-3871

RECEIVED

SEP - 6 1979

OIL & GAS DIVISION  
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above

location under  lease  other contract  dated May 15, 1975, with

well ownership from Mark Schumacher to NRM Petroleum Corporation

on May 15, 1979, in the office of the Clerk of the County Commission of Doddridge

County, West Virginia, by Lease Book 108 of page 527. A permit is hereby granted for

to  Drill  Drill deeper  Redrill  Fracture or stimulate

Plug off old formation  Perforate new formation \_\_\_\_\_

Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The undersigned coal operator, coal owner(s), and coal lessee are hereby notified that any

order of this Permit Application and the enclosed plan and reclamation plan have been mailed

RECEIVED BY ALL  
DIRECTLY TO:  
DEPARTMENT OF MINES  
AND OIL AND GAS  
DIVISION  
STATE OF WEST VIRGINIA  
MARTINSBURG, WV

BLANKET BOND

NRM PETROLEUM CORPORATION

Well Operator

By \_\_\_\_\_

Land Agent

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY;  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-1 OF W. V. C. 20-2-1.

DRILLING CONTRACTOR (IF KNOWN)

Union Drilling Company

Address

Drawer 40

Buckhannon, WV 26201

ROCK STRATIGRAPHIC FORMATION,

Devonian Shale

Depth of hole to be drilled well, 5500 feet. Bottom  /  feet.

Approximate water depth in feet: 250 feet; salt, feet.

Approximate coal seam within 400-402 Is coal being mined in the area? Yes  / No

WELL ANCHORING PER PLAN

WELL ID	ESTIMATED WEIGHTS				ROYALTY INTERVALS		CEMENT PILL-UP OR GAPS (Cubic Feet)	LAYER
	Drill Pipe	Tool Joint	Submergence	Flow Line	From Drilling	Left in well		
								Kinis
	8 5/8				1240	1240	Cement to surface	
	4 1/2					5500	250 sks.	

The undersigned, the Director of Mines, certifies that the proposed well is in compliance with the provisions of the laws of this State, and that the location of the well is approved for drilling. This permit shall expire if operations have not commenced by 5-7-80.

This permit shall not be required for drilling on a well which is to be part of the work for which a permit to drill was previously issued.

**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 5-7-80.

*Robert R. [Signature]*  
Deputy Director, Oil & Gas Division

W A I V E R

I, the undersigned, the owner of the well, hereby certify that this proposed well is in compliance with the provisions of the laws of this State, and that the location of the well is approved for drilling. This permit shall expire if operations have not commenced by 5-7-80.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's  
Well No. R. Zinn # 1

API Well No. 47-017-2485-REV.  
State County Permit

WELL TYPE: Oil  / Gas  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 1060 Watershed: Traugh Fork  
District: Greenbrier County: Doddridge Quadrangle: Big Isaac

WELL OPERATOR NRM Petroleum Corporation DESIGNATED AGENT Rickard L. Hopkins  
Address P.O. Box 816 Address P.O. Box 816  
Buckhannon, WV 26201 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Hugh Garrett Hiers  
C/O R.S. Smallridge, Agent COAL OPERATOR \_\_\_\_\_  
Address 29 College Street Address \_\_\_\_\_  
Buckhannon, WV 26201

ACREAGE 27 COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER Roger Zinn Name Unknown  
Address Rt. 3 Address \_\_\_\_\_  
Salem, WV Name \_\_\_\_\_  
ACREAGE 27 Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301  
622-3871

**RECEIVED**  
**SEP 24 1979**  
COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address OIL & GAS DIVISION  
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated May 15, 1975, to the undersigned well operator from Mark Schumacher to NRM Petroleum Corporation  
[If said deed, lease, or other contract has been recorded:]

Recorded on May 15, 1979, in the office of the Clerk of the County Commission of Upshur County, West Virginia, in Lease Book 108 at page 527. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1619 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

**BLANKET BOND** By R. L. Hopkins  
Its Vice-President  
NRM PETROLEUM CORPORATION  
Well Operator

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Union Drilling Company  
Address Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5268 feet Rotary  / Cable tools  /

Approximate water strata depths: Fresh, 190 feet; salt,        feet.

Approximate coal seam depths: 1050-1055 Is coal being mined in the area? Yes  No

CASING AND TUBING PROGRAM

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		
Conductor									Kinds
Fresh water	8 5/8					1113	1113	Cement to surface	
Coal									Sizes
Intermediate									
Production	4 1/2						5268	250 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate permit shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2, Chapter 22, in connection therewith.

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 5-25-80.

  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator        / owner        / lessee        / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:       , 19       

By         
Its