

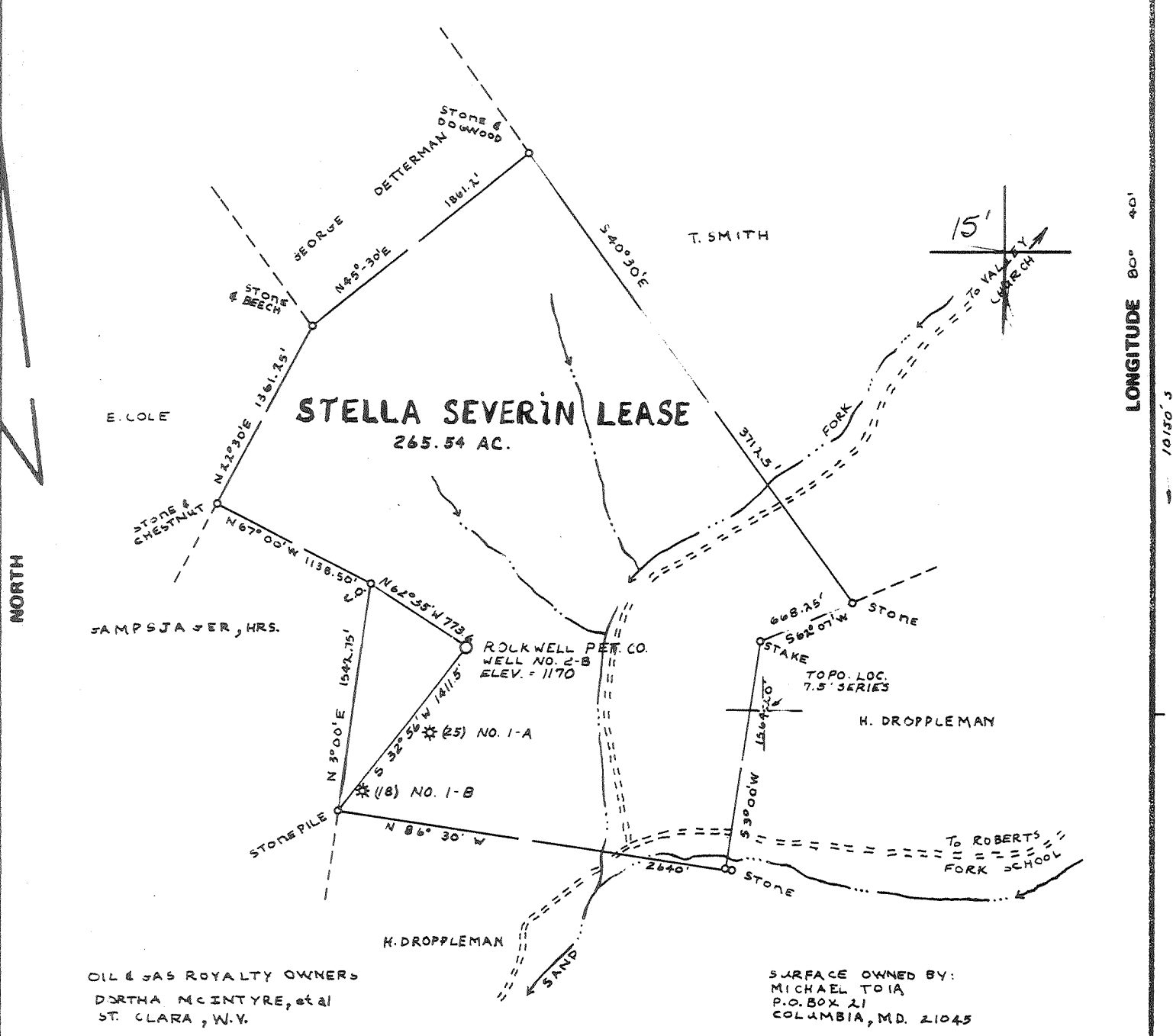
Plot Card of USU

7-1-80 - 5200' W

LATITUDE 39° 10'

LONGITUDE 80° 40'

NORTH



OIL & GAS ROYALTY OWNERS
 DORTHA McINTYRE, et al
 ST. CLARA, W.V.

SURFACE OWNED BY:
 MICHAEL TOIA
 P.O. BOX 21
 COLUMBIA, MD. 21045

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT RD. ±1800' SE OF LOCATION - ELEV. = 874'

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD

R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE JUNE 10, 1980
 OPERATOR'S WELL NO. TWO-B
 API WELL NO. _____
47 - 017 - 2780 - P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1170' WATER SHED SAND FORK of FINK CREEK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' VADIS 15'

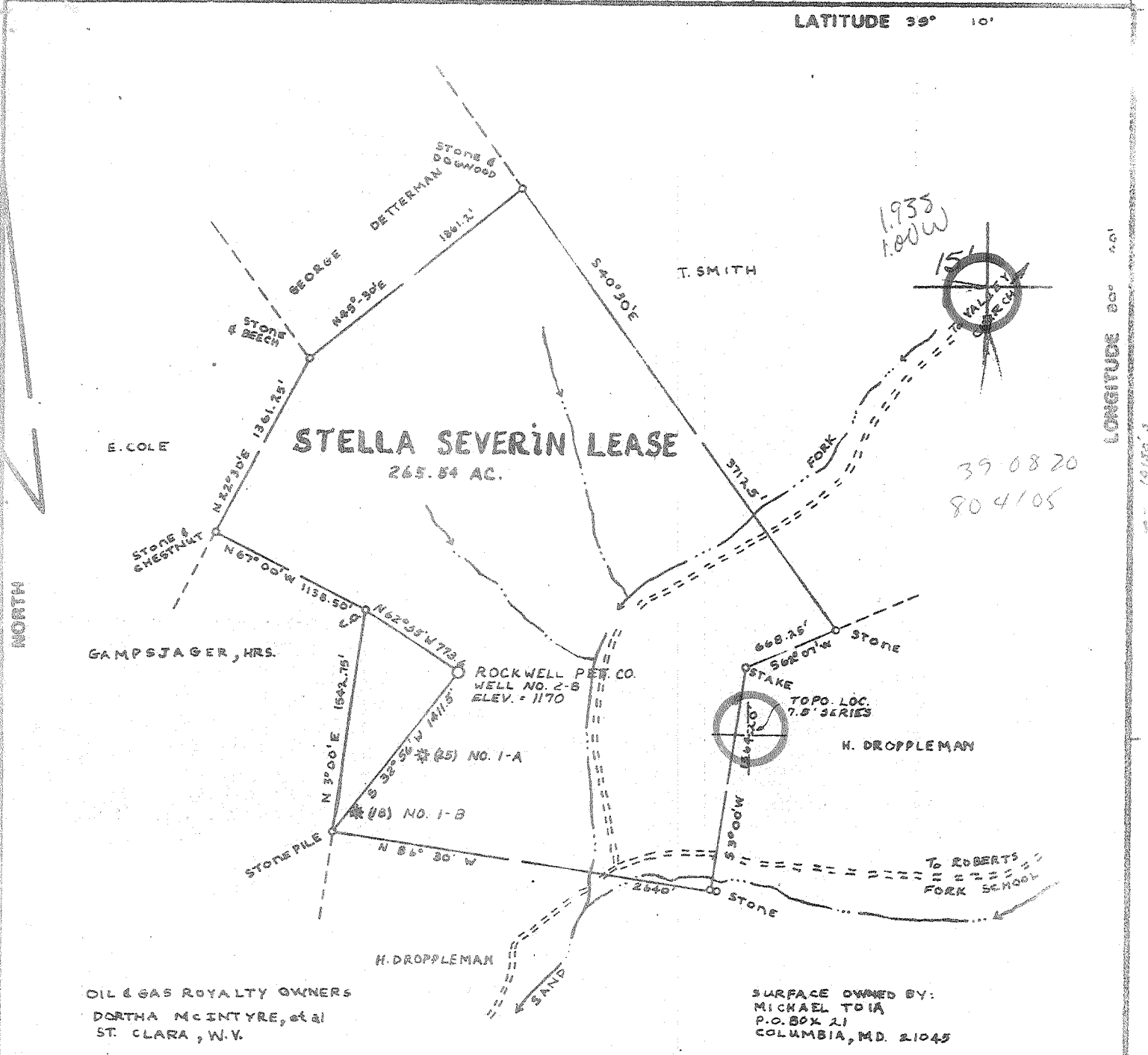
SURFACE OWNER MICHAEL TOIA ACREAGE 265.54
 OIL & GAS ROYALTY OWNER DORTHA McINTYRE, et al LEASE ACREAGE 265.54
 LEASE NO. _____

PROPOSED WORK: DRILL X 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 BIG INDIAN ESTIMATED DEPTH 2400
 WELL OPERATOR ROCKWELL PETROLEUM Co. DESIGNATED AGENT ROBERT R. JONES
 ADDRESS P.O. BOX 86 ADDRESS P.O. BOX 86
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430

MAY 16 1983

DODD. 2780-P



OIL & GAS ROYALTY OWNERS
DORATHA McINTYRE, et al
ST. CLARA, W.V.

SURFACE OWNED BY:
MICHAEL TOIA
P.O. BOX 21
COLUMBIA, MD. 21045

FILE NO. _____
DRAWING NO. _____
SCALE $1" = 1000'$
MINIMUM DEGREE OF
ACCURACY $1/200$
PROVEN SOURCE OF
ELEVATION JCT RDS. $\pm 1800'$ SE
OF LOCATION - ELEV. = 879'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES. *Mark C. Echard*
(SIGNED) MARK C. ECHARD
R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE JUNE 10, 1982
OPERATOR'S WELL NO. TWO-B
API WELL NO. _____
47-017-2780
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1170' WATER SHED SAND FORK of FINK CREEK
DISTRICT COVE COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5' VADIS 15' WC
SURFACE OWNER MICHAEL TOIA ACREAGE 265.54
OIL & GAS ROYALTY OWNER DORATHA McINTYRE, et al LEASE ACREAGE 265.54
LEASE NO. _____
PROPOSED WORK: DRILL X 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 BIG INDIAN ESTIMATED DEPTH 2400
WELL OPERATOR ROCKWELL PETROLEUM Co. DESIGNATED AGENT ROBERT R. JONES
ADDRESS P.O. BOX 86 ADDRESS P.O. BOX 86
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430

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

Date: August 18, 1980

FORM IV-35
(Obverse)

Operator's
Well No. Severin #2B

[08-78]

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017-2780
State County Per

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1170' Watershed: Sand Fork of Fink Creek
District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Rockwell Petroleum Company DESIGNATED AGENT Robert R. Jones
Address P O Box 86 Address P O Box 86
Sand Fork, WV 26430 Sand Fork, WV 26430

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON June 26, 19 80



SPECTOR FOR THIS WORK:
Name Paul Garrett

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED

AUG 26 1980
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Big Injun T. OF MINES Depth 2325 feet
Depth of completed well, 2480 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 96 feet; salt, ___ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced July 21, 19 80, and completed July 24, 19 80

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		
Conductor								Minds
Fresh water	8 5/8					1217	1217	330 sks
Coal								Sizes
Intermediate								
Production	4 1/2						2385	125 sks
Tubing								Depth set
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Injun & Blue Monday Pay zone depth 2325 feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 100 Mcf/d Final open flow, ___ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 820 psig (surface measurement) after 72 hours shut in
[If applicable due to multiple completion--]
Second producing formation _____ Pay zone depth _____
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, ___ Mcf/d 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

SEP 16 1980

[08-78]

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

Fractured August 6, 1980

Injun & Blue Monday - 10,000 lb. 80/100 sand
50,000 lb. 20/40 sand
2450 lb. breakdown
833 bbls water
15.5 BPM at 2800 lb
13.7 BPM at 3100 lb

Perforations - 2325, ~~2327~~, 2314, 2316, 2282, 2257,
2170, 2176, 2182, 2188, 2194, 2200, 2206, 1 hole each

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fr and salt water, coal, oil and
Surface			0	96	
Sand			96	99	Water
Red Rock			99	105	
Shale			105	162	
Red Rock			162	202	
Slate			202	221	
Red Rock			221	280	
Shale			280	470	
Sand			420	470	
Shale			470	520	
Sand			820	841	
Red Rock			841	920	
Shale			920	1460	
Sand			1460	1505	
Shale			1505	1780	
Sand			1780	1810	
Shale			1810	1890	
Sand			1890	1905	
Shale			1905	1966	
Sand			1966	1995	
Shale			1995	2010	
Sand			2010	2055	
Shale			2055	2095	
Sand			2095	2112	
Lime			2112	2158	
Sandy Lime			2158	2211	
Lime			2211	2250	
Sandy Lime			2250	2262	
Lime			2262	2310	
Sandy Lime			2310	2342	
Shale			2342	2400	
Sandy Shale			2400	2462	
Shale			2462	2480	
Total Depth			2480		

(Attach separate sheets to complete as necessary)

Rockwell Petroleum Company

Well Operator

By Laura S. Cochran

Its Secretary

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."

[08-78]

COPY

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

Date: June 17, 19 80

Operator's Well No. Severin #2B

API Well No. 47 - 017 - 2780 State County Permit

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

LOCATION: Elevation: 1170' Watershed: Sand Fork of Fink Creek District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Rockwell Petroleum Company Address P O Box 86 Sand Fork, WV 26430

DESIGNATED AGENT Robert R. Jones Address P O Box 86 Sand Fork, WV 26430

LAND & GAS OWNERSHIP OWNER Dorothea McIntyre, et al Address Route 1, Box 164 New Milton, WV 26411

COAL OPERATOR N/A Address

Acreage 265.54

COAL OWNER(S) WITH DECLARATION ON RECORD:

COAL SURFACE OWNER Michael Toia Address P O Box 21 Columbia, MD 21045

Name N/A Address

Acreage 265.54

Name N/A Address

FIELD SALE (IF MADE) TO: Name N/A Address

Address

Address

COAL LESSEE WITH DECLARATION ON RECORD: Name N/A Address

Address

LAND & GAS INSPECTOR TO BE NOTIFIED Name Paul Garrett Address Clarksburg, WV 26301 622-3871

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract X / dated June 20, 1978, to the undersigned well operator from John R. Warren. [said deed, lease, or other contract has been recorded:]

Recorded on June 28, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 104 at page 254. A permit is requested as follows:

PROPOSED WORK: Drill X / 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 action 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 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 PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 5 WASHINGTON STREET EAST CHARLESTON, WV 25311

PHONE: (304) 348-3092

RECEIVED JUN 26 1980

OIL & GAS DIVISION DEPT. OF MINES

BLANKET BOND

Rockwell Petroleum Company Well Operator

By Mark R. Wood Its Partner

1982

PROPOSED WORK ORDER

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

DRIILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.
Address Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale (Gordons)

Estimated depth of completed well, 2400 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 145 feet; salt, N/A feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No X

DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Production water	8 5/8					1120	1120	To surface
Intermediate								Sizes
Production	4 1/2						2400	Depths set
Perforations								Perforations:
								Top Bottom

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 dwelling within 200 feet of the proposed well.

A separate Form IV-2 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 filed at the well site 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 3-2-81

[Signature]
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 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.

, 19

By _____
Its _____