

OIL & GAS ROYALTY OWNER(S): 32 1/4 AC.  
 W.M. SHULTE, HEIRS  
 ST. CLARA, W. VA.

SURFACE OWNER - 52 1/4 AC.  
 KENNETH CAPP  
 HURRICANE, W. VA.

DESIGNATED AGENT -  
 MR. ROBERT R. JONES  
 P.O. BOX 86  
 SAND FORK, W. VA. 26430

Minimum Error of Closure 0.05 PART ID 200

Source of Elevation USGS SPOT ELEVATION ON KNOB SE 2300' FROM

LOCATION - ELEVATION = 1296'

Fracture  GAS-DRILL-SHALLOW  
 New Location  DEVONIAN SHALE-TR  
 Drill Deeper  EST. DEPTH 5400'

Abandonment

Map No. \_\_\_\_\_ Squares: N S E W

Signed: Mark C. Echard

WELL OPERATOR/  
 Company ROCKWELL PETROLEUM COMPANY

Address PO BOX 86, SAND FORK, W. VA. 26430

Farm W.M. SHULTE LEASE (K. CAPP)

Tract \_\_\_\_\_ Acres 52.25 Lease No. \_\_\_\_\_

Well (Farm) No. FOUR Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1065'

Quadrangle NEW MILTON 7.5' VARIS WC

County ADAMS District COKE

SURVEYOR/  
 Engineer MARK C. ECHARD

SURVEYOR'S/  
 Engineer's Registration No. 490 LLS

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date AUGUST 17, 1978 Scale 1" = 500'

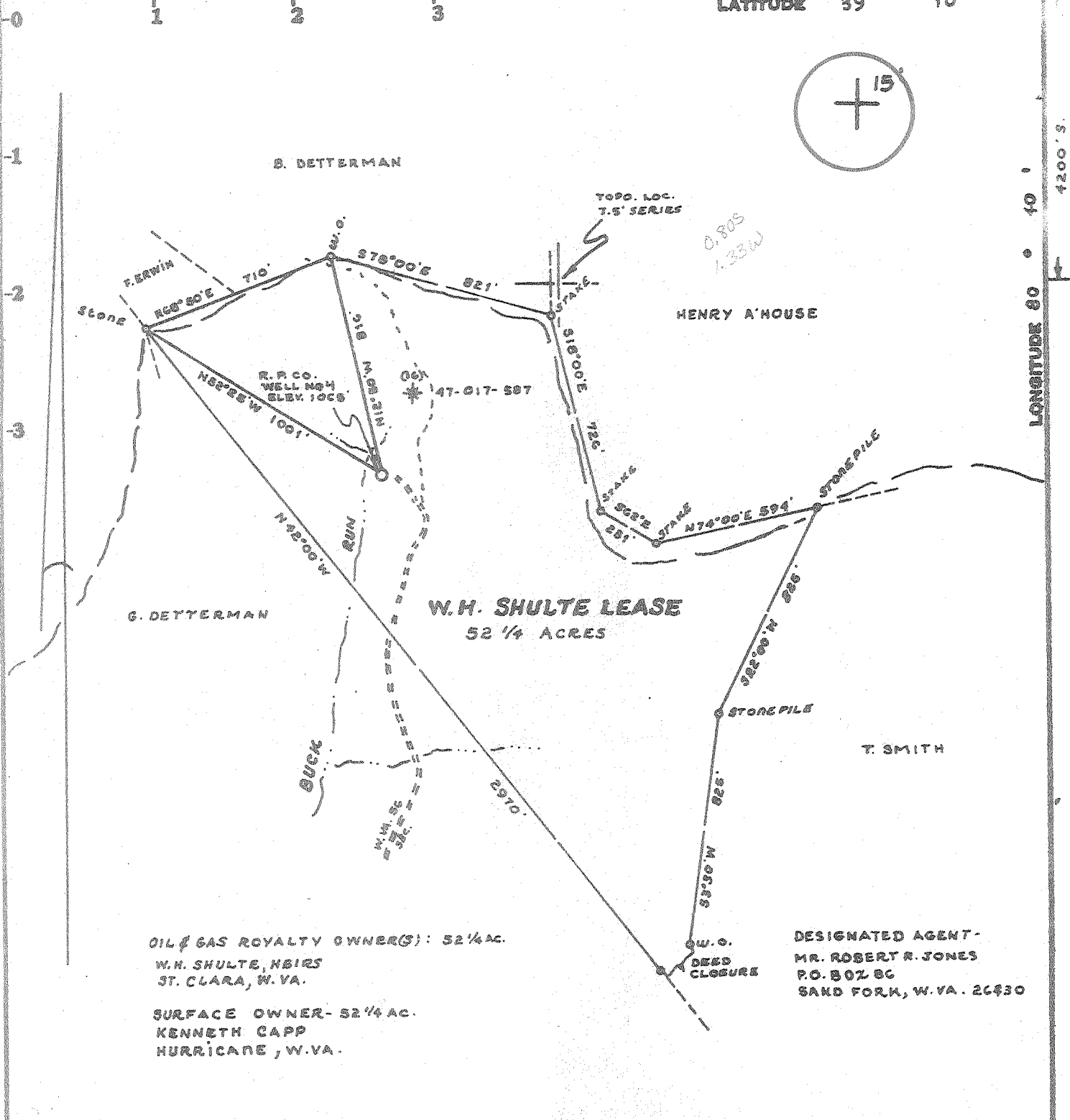
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**

FILE NO. 47-017-2707  
 FORMERLY 017-2477

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

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



OIL & GAS ROYALTY OWNER(S): 52 1/4 AC.  
 W.H. SHULTE, HEIRS  
 ST. CLARA, W. VA.

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DESIGNATED AGENT -  
 MR. ROBERT R. JONES  
 P.O. BOX 86  
 SAND FORK, W. VA. 26430

Minimum Error of Closure .00E PART ID 200

Source of Elevation USGS SPOT ELEVATION ON KNOR SE 2300' FROM

LOCATION - ELEVATION = 1296'

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.

- Fracture.....
- New Location.....  GAS - DRILL - SHALLOW DEVONIAN SHALE - TF EST. DEPTH 5400'
- Drill Deeper.....
- Abandonment.....

Signed: Mark C. Echard  
 Squares: N S E W

Map No.

WELL OPERATOR/  
 Company ROCKWELL PETROLEUM COMPANY

Address PO BOX 86 SAND FORK, W. VA. 26430

Farm W.H. SHULTE LEASE (K. CAPP)

Tract \_\_\_\_\_ Acres 52.25 Lease No. \_\_\_\_\_

Well (Farm) No. FOUR Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1065'

Quadrangle NEW MILTON 7.5' VARIS

County DODDRIDGE District COVE

SURVEYOR/  
 Engineer MARK C. ECHARD

SURVEYOR'S/  
 Engineer's Registration No. 490 LLS.

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date AUGUST 17, 1979 Scale 1" = 500'

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

WELL LOCATION MAP  
 was:  
 FILE NO. 47-017-2477

now 017-2707

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown. SEP 7 1979

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

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

Date May 29, 1980  
Operator's Well No. Shulte #4  
API Well No. 47-017-270  
State County

FORM IV-35  
(Obverse)  
[08-78]

WELL OPERATOR'S REPORT 2  
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 \_\_\_ / Shallow X /)

LOCATION: Elevation: 1065' Watershed: Buck Run  
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 April 25, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett  
Address Clarksburg, WV 26301  
622-3871

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5578 feet  
Depth of completed well, 5644 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, 110 feet; salt, \_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced May 18, 1980, and completed May 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								Kinds
Fresh water	8 5/8					1349'	1349'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5619'	150 sks
Tubing								Depths set
Liners								Perforations:
								Top
								Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5255.5 f  
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

[If applicable due to multiple completion--]  
Second producing formation Elk ALFX Pay zone depth 5578 f  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Final open flow, 455 Mcf/d Final open flow, \_\_\_ Bbl/d

COMBINED Time of open flow between initial and final tests, 6 hours  
Static rock pressure, 1420 psig (surface measurement) after 42 hours shut in

FEB 23 1981

[08-78]

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

Fractured May 30, 1980

~~Elk~~ - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
536 bbls water  
21.2 BPM at 2400 lb.

Benson - 30,000 lb. 80/100 sand  
15,000 lb. 20/40 sand  
401 bbls water  
17.4 BPM at 1600 lb.  
2700 lb. breakdown

Perforations - 5470 - 5578, 7 holes

Perforations - 5253 - 5255.5, 6 holes

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	100	
Slate			100	110	
Sand			110	115	Water
Shale			115	240	
Red Rock			240	280	
Shale			280	510	
Sand			510	526	
Shale			526	710	
Red Rock			710	792	
Shale			792	910	
Red Rock			910	1002	
Sand			1002	1053	
Shale			1053	1490	
Sand			1490	1520	
Shale			1520	1928	
Sand			1928	1956	
Shale			1956	2290	
Lime			2290	2300	
Slate			2300	2318	
Sandy Lime			2318	2354	
Lime			2354	2430	
Sand			2430	2460	Show of gas and oil
Lime			2460	2490	
Shale			2490	2560	
Sandy Lime			2560	2655	
Shale			2655	3600	
Sandy Shale			3600	3620	
Shale			3620	5148	
Sandy Shale			5148	5208	Show of gas
Shale			5208	5364	
Shale with sand stringers			5364	5610	Show of gas
Shale			5610	5644	
Total Depth			5644		

(Attach separate sheets to complete as necessary)

Rockwell Petroleum Company  
Well Operator

By   
Its Partner

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**

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Shulte #4

API Well No. 47 - 017 - 2477  
State County Permit

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

LOCATION: Elevation: 1065' Watershed: Buck Run  
District: Cove County: Doddridge Quadrangle: New Milton 7.5'

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

OIL & GAS ROYALTY OWNER W. H. Shulte, Heirs  
Address St. Clara, WV

COAL OPERATOR N/A  
Address \_\_\_\_\_

Acreage 52.25

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Kenneth Capp  
Address Hurricane, WV

Name N/A  
Address \_\_\_\_\_

Acreage 52.25

Name N/A  
Address \_\_\_\_\_

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

COAL LESSEE WITH DECLARATION ON RECORD:

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

**RECEIVED**  
AUG 23 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 a deed \_\_\_ / lease X / other contract \_\_\_ / dated January 30, 19 79, to the undersigned well operator from Joseph I. Schulte, et al  
[If said deed, lease, or other contract has been recorded:]

Recorded on August 7, 19 79, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 110 at page 8. 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 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  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

Rockwell Petroleum Company  
Well Operator  
By Robert R. Jones  
Its Partner

[08-78]

COPY

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, Inc.  
Address Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5400 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 125 feet; salt,      feet.  
Approximate coal seam depths: None IS coal being mined in the area? Yes      / No X /

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								Kinds
Fresh water	8 5/8					1200'	1200'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5400	160 sks
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 dwelling within 200 feet of the proposed well.

THIS PERMIT: MUST BE POSTED AT THE WELL SITE. This permit shall not be required for fracturing or stimulating a well where fracturing or stimulation is a part of the work for which a permit is sought and is required as such on the Form IV-2 filed in connection therewith.

of the West Virginia Code, the location is hereby approved for drilling

This permit shall expire if operations are not commenced by 4-23-80

*Robert L. ...*  
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

[08-78]

**COPY**

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Shulte #4

API Well No. 47 - 017 2707  
State County Permit

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

LOCATION: Elevation: 1065' Watershed: Buck Run  
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

OIL & GAS ROYALTY OWNER W. H. Shulte Heirs  
Address St. Clara, WV

COAL OPERATOR N/A  
Address:

ACREAGE 52.25  
SURFACE OWNER Kenneth Kapp  
Address Hurricane, WV

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name N/A  
Address

ACREAGE 52.25  
FIELD SALE (IF MADE) TO:  
Name N/A  
Address

Name N/A  
Address

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

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

**RECEIVED**  
APR 25 1980

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 January 30, 1979, to the undersigned well operator from Joseph I. Shulte, et al  
[If said deed, lease, or other contract has been recorded:]

Recorded on August 7, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 110 at page 8. 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 PHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
100 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
PHONE: (304) 348-3092

**BLANKET BOND**

Rockwell Petroleum Company  
Well Operator  
By Mark R. Wood  
Its Partner

PROPOSED WORK ORDER

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ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

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Address Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5400 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 125 feet; salt, N/A feet.  
Approximate coal seam depths: N/A Is coal being mined in the area? Yes      / No X

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								Kinds
Fresh water	8 5/8					1200'	1200'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5400'	160 sks
Tubing								Depths set
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 dwelling within 200 feet of the proposed well.

THIS PERMIT ~~is 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 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 1-5-81.

  
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.

By:     , 19     

By       
Its