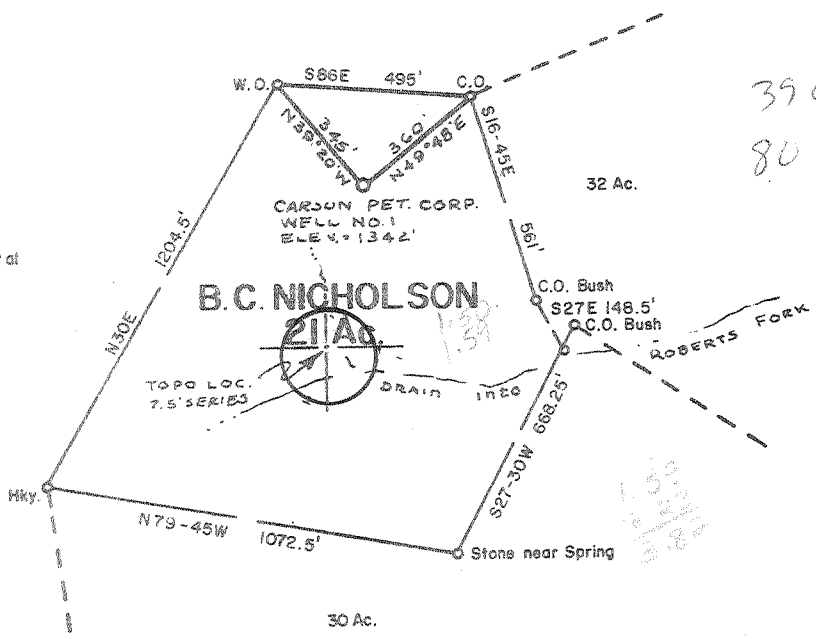




(15') 80° 35'
LONGITUDE : 80-37-00

MARTH G. KEITH, et al



390845
803900

SURFACE OWNER:
Aubrey R. Asbury
Elk View, W.V.

OIL & GAS ROYALTY OWNER:
Jay Nicholson
Salem, W.V.

FILE NO. _____
DRAWING NO. _____
SCALE 1 inch = 500 feet
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION Top Knob 1900' East of Location, Elev. 1409'

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 JULY 15, 1980
OPERATOR'S WELL NO. ONE
API WELL NO. _____
47 - 017 - 2800
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 1342 WATER SHED ROBERTS FORK
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON VADIS C
SURFACE OWNER AUBREY R. ASBURY ACREAGE 21
OIL & GAS ROYALTY OWNER JAY NICHOLSON LEASE ACREAGE 21
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 BTC INDIAN DEVONIAN SHALE ESTIMATED DEPTH 2400'
WELL OPERATOR 30-5 WELL PETROLEUM DESIGNATED AGENT ROBERT A. JONES
ADDRESS BOX 46 ADDRESS BOX 96
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430

6-6 NEW MILTON S

(146) 307 AUG 11 1980

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

Date August 18, 1980

FORM IV-35
(Obverse)

Operator's
Well No. B. C. Nicholson #1

[08-78]

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

API Well No. 47 - 017 - 2800
State County Permi

TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /)
Elevation: 1342' Watershed: Roberts Fork
District: New Milton County: Doddridge Quadrangle: New Milton

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

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

PERMIT ISSUED ON July 28, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

LOGICAL TARGET FORMATION: Devonian Shale Depth 2517 feet
Depth of completed well, 2608 feet Rotary / 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 July 30, 19 80, and completed August 1, 19 80

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Drill pipe								Kinds
Production tubing	8 5/8					1346'	1346'	330 sks
Intermediate tubing							2593	125 sks
Completion tubing	4 1/2							Perforations: Depth of set
Perforations								Top Bottom

RECEIVED
AUG 27 1980
OIL & GAS DIVISION
DEPT. OF MINES

FLOW DATA

Producing formation Upper Injun Pay zone depth 2440 feet
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 Lower Injun Pay zone depth 2517 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1,081 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 880 psig (surface measurement) after 48 hours shut in

SEP 16 1980

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

Fractured August 18, 1980

Lower Injun - 50,000 lb. 20/40 sand
 2100 lb. breakdown
 567 bbls. water
 21 BPM at 2700 lb.

Upper Injun - 8,000 lb. 20/40 sand
 2900 lb. breakdown
 196 bbls. water
 17.2 BPM at 3100 lb.

Perforations - 2491, 2492, 2493, 2500,
 2501, 2502, 2510, 2512,
 2516, 2517, 1 hole each

Perforations - 2437, 2437.5, 2438, 2438.5,
 2439, 2439.5, 2440, 1 hole each

LL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface			0	99	
Shale			99	110	
Sand			110	114	Water
Shale			114	122	
Red Rock			122	128	
Sand			128	130	Water
Shale			130	290	
Red Rock			290	310	
Shale			310	720	
Red Rock			720	780	
Shale			780	910	
Shale			1002	1220	
Sand			1220	1240	
Shale			1240	1620	
Sand			1620	1643	
Shale			1643	2010	
Sand			2010	2050	
Shale			2050	2320	
Lime			2320	2350	
Slate			2350	2360	
Lime			2360	2430	
Sand			- 2430	2446	Show of gas & oil
Lime			2446	2484	
<u>Sand</u> <i>BZ</i>			- 2484	2530	Show of gas & oil
Shale			2530	2608	
Total Depth			2608		

(Attach separate sheets to complete as necessary)

Rockwell Petroleum Company

Well Operator

By James J. Cochran

Its Secretary

OFE: 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. B. C. Nicholson #1

API Well No. #7 - 017 - 2800
State County Permit

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

LOCATION: Elevation: 1342' Watershed: Roberts Fork
District: New Milton 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
PROPERTY OWNER Jay Nicholson
Address Route 1, Box 50
Salem, WV

COAL OPERATOR N/A
Address

ACREAGE 21
SURFACE OWNER Aubrey R. Asbury
Address Elk View, WV

ACREAGE 21

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

Name N/A
Address

RECEIVED

JUL 28 1980

LAND SALE (IF MADE) TO:
N/A
Address

Address **OIL & GAS DIVISION**
DEPT. OF MINES

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

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

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 August 16, 1979, to the undersigned well operator from L. Jay Nicholson.

[said deed, lease, or other contract has been recorded:]
Recorded on August 21, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 110 at page 241. 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
WASHINGTON STREET EAST
CHARLESTON, WV 25311
PHONE: (304) 346-3092

Rockwell Petroleum Company
Well Operator

BLANKET BOND

By Mark R. Jones
Its Partner

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 (just below Berea?)

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

Approximate water strata depths: Fresh, 250 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		
Suction								Kinds
Production water	8 5/8					1300'	1300'	To surface
								Sizes
Intermediate								
Production	4 1/2						2400'	Depths set
								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 permit. **THIS PERMIT MUST BE POSTED AT THE WELL SITE** 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 3-28-81.

[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 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.

By
Its