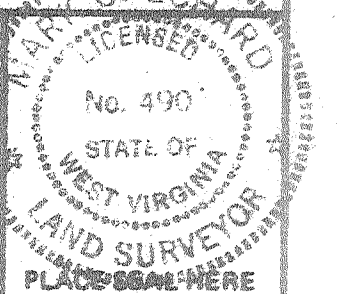


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOR 2100' SW OF LOC. - ELEV. = 1412'

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) MARK C. ECHARD
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) 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 MARCH 9, 1980
 OPERATOR'S WELL NO. TWO
 API WELL NO. 47-017-2662
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1088' WATER SHED LITTLE INDIAN FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' C. Vedis
 SURFACE OWNER LOUIS E. NICHOLSON ACREAGE 115.03
 OIL & GAS ROYALTY OWNER LOUIS E. NICHOLSON LEASE ACREAGE 115.03
 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 BIG IN JUN ESTIMATED DEPTH 2400'
 WELL OPERATOR ROCKWELL PETROLEUM CO. DESIGNATED AGENT MR. ROBERT R. JONES
 ADDRESS P.O. BOX 86 SANDFORK, W.VA. 26430 ADDRESS P.O. BOX 86 SANDFORK, W.VA. 26430

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

Date: July 9, 1980
Operator's Well No. L. Nicholson #2
API Well No. 47 - 017-2662
State County Per

FORM IV-35
(Obverse)

WELL OPERATOR'S REPORT

[08-78]

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: 1088' Watershed: Little Indian Fork
District: New Milton 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) _____

JUL 17 1980

PERMIT ISSUED ON March 13, 19 80

OIL & GAS DIVISION
OIL & GAS INSPECTOR FOR THE WORK:

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

Name Paul Garrett
Address Clarksburg, WV
622-3871

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2402 feet
Depth of completed well, 2490 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 130 feet; salt, ___ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced June 5, 19 80, and completed June 8, 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	Left in well		
Conductor									Kinds
Fresh water	8 5/8					1386	1386	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2						2460	80 sks	Depths set
Tubing									
liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 2402 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 _____ Pay zone depth _____ feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 785,000 Mcf/d Final open flow, ___ Bbl/d
Time of open flow between initial and final tests, 3 hours
Static rock pressure, 590 psig (surface measurement) after 63 hours shut in

AUG 1 1980

[08-78]

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

Fractured June 13, 1980

Big Injun - 40,000 lb. 20/40 sand
559 bbls water
2300 lb. breakdown
20.5 BPM at 2400 lb.

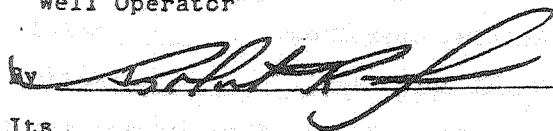
Perforations - 2399 - 2402, 4 holes
2327 - 2333, 4 holes

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	110	
Shale			110	130	
Sand			130	134	Water
Shale			134	186	
Red Rock			186	202	
Shale			202	420	
Red Rock			420	436	
Slate			436	449	
Shale			449	680	
Red Rock			680	714	
Shale			714	920	
Red Rock			920	968	
Slate			968	1061	
Shale			1061	1241	
Sand			1241	1291	
Shale			1291	1340	
Sand			1340	1391	
Shale			1391	1640	
Sand			1640	1701	
Shale			1701	2212	
Sandy Lime			2212	2226	
Slate			2226	2260	
Lime			2260	2326	
Sandy Lime			2326	2332	Show of gas
Lime			2332	2390	
Sandy Lime			2390	2410	Show of Gas & Oil
Shale			2410	2465	
Sandy Shale			2465	2490	
Total Depth			2490		

(Attach separate sheets to complete as necessary)

Rockwell Petroleum Company
Well Operator



Its

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."

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. L. Nicholson #2
API Well No. 47 - 017 - 2662
State County Permit

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)
Elevation: 1088' Watershed: Little Indian Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

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

WELL & GAS COAL OPERATOR N/A
PROPERTY OWNER Louis E. Nicholson Address
P O Box 306 Manchester Center, Vermont 05255

ACREAGE 115.03 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address
Name N/A
Address

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

WELL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 2622-3871

RECEIVED
MAR 31 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 X / other contract / dated July 6, 19 79, to the undersigned well operator from Louis E. Nicholson & Priscilla A. Nicholson. [said deed, lease, or other contract has been recorded.]

Recorded on July 17, 19 79, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 109 at page 293. 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 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

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

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

GEOLOGICAL TARGET FORMATION, Big Injun

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

Approximate water strata depths: Fresh, 150 feet; salt, 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
Fresh water	8 5/8						375	To surface
Intermediate								Sizes
Production	4 1/2						2400'	Depths set
Logging								Perforations: Top Bottom
Packers								

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

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 in connection therewith.

for drilling. This permit shall expire if operations have not commenced by 12-3-80.


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.