

39 08 15
80 41 10

2.035
1.04W

H. DROPPLEMAN

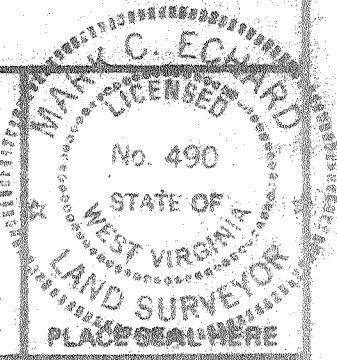
GAMP SJAGER, Mrs

OIL & GAS
DORRHA MCINTYRE, et al
ST. CLARA, W.VA.

H. DROPPLEMAN

FILE NO. _____
DRAWING NO. _____
SCALE 1/2 1000'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION ICT. OF ROADS 1700'
ELEV. OF LOC. - 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



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



DATE FEBRUARY 19, 19 80
OPERATOR'S WELL NO. ODE-A
API WELL NO. _____
47-017-2665
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 1105 WATER SHED SAND FORK OF FINK'S CREEK
DISTRICT COYE COUNTY ODD BRIDGE
QUADRANGLE NEW MILTON 7.5' W.C. 13
SURFACE OWNER MICHAEL TOIA, et al ACREAGE 265.54
OIL & GAS ROYALTY OWNER DORRHA MCINTYRE LEASE ACREAGE 265.54
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 5440'
WELL OPERATOR ROCKWELL PETROLEUM CO DESIGNATED AGENT MR. ROBERT R. JONES
ADDRESS P.O. BOX 86 ADDRESS P.O. BOX 86
SAND FORK, W.VA. 26430 SAND FORK, W.VA. 26430
MAY 13 1980

6-6 NEW MILTON SOUTH 307

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

Date April 28, 19 80

FORM IV-35
(Obverse)

Operator's
Well No. Severin #1A

[08-78]

WELL OPERATOR'S REPORT 7

API Well No. 47 - 017 - 2665
State County Permit

OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow /)

ELEVATION: 1105' Watershed: Sand Fork of Fink's Creek
District: Cove 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

PERMITTED 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 April 2, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
Address Clarksburg, WV 26301
622-3871

LOGICAL TARGET FORMATION: Devonian Shale Depth 5329 feet
Depth of completed well, 5461 feet Rotary / Cable Tools
Water strata depth: Fresh, 97 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced April 14, 1980, and completed April 22, 1980

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		
Production								Kinds
Production water	8 5/8					1305	1305	To surface
Intermediate								Sizes
Production	4 1/2						5368'	150 sks
Logging								Depths set
Perforations								Perforations:
								Top Bottom

RECEIVED
JUN 2 1980
OIL & GAS DIVISION
DEPT. OF MINES

FLOW DATA
Producing formation Benson Pay zone depth 5010.5 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 ~~Eik~~ ALEX Pay zone depth 5329 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

COMBINED Final open flow, 985,000 Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, 6 hours

Static rock pressure 1840 psig (surface measurement) after _____ hours shut in

JUL 7 1980

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

Fractured April 30, 1980

~~Elk~~ ^{ACEX} - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
21.6 BPM at 2,000 lb.
2100 lb. breakdown
563 bbls. water

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
21.7 BPM at 1950 lb.
2850 lb. breakdown
545 bbls. water

Perforations - 5125, 5142, 5211, 5305,
5306, 5316, 5329

Perforations - 5008, 5008.5, 5009, 5009.5,
5010, 5010.5, 6 holes

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	88	
Slate			88	97	
Sand			97	101	Water
Slate			101	128	
Sand			128	134	Water
Slate			134	308	
Red Rock			308	342	
Slate			342	601	
Sand			601	688	
Slate			688	742	
Sand			742	788	
Shale			788	942	
Red Rock			942	1010	
Shale			1010	1420	
Sand			1420	1460	
Shale			1460	1950	
Sand			1950	1975	
Shale			1975	2000	
Sand			2000	2020	
Slate			2020	2058	
Lime			2058	2090	
Sandy Lime			2090	2142	Blue Monday, Show of gas
Lime			2142	2216	
Sand			2216	2264	Big Injun, Show of oil & gas
Lime			2264	2274	
Shale			2274	2325	
Sandy Shale			2325	2420	
Shale			2420	2530	
Sand			2530	2555	
Shale			2555	2890	
Sand			2890	2910	
Shale			2910	3170	
Shale with sand stringers			3170	3430	
Shale			3430	3870	
Sandy Shale			3870	3955	Show of gas
Shale with sand stringers			3955	4600	
Shale			4600	5000	
Sandy Shale	5000	5016	Benson, show of gas (see separate sheets to complete as necessary)		
Shale	5016	5120			
Sandy Shale	5120	5335	Show of gas ^{ACEX}		
Shale	5335	5461			
Total Depth	5461				

Rockwell Petroleum Company
Well Operator
By [Signature]
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. Severin #1A

API Well No. 47 - 017 2665
State County Permit

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

LOCATION: Elevation: 1105' Watershed: Sand Fork of Fink's 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

OIL & GAS ROYALTY OWNER Dorothea McIntyre
Address Route 1, Box 164
New Milton, WV 26411

COAL OPERATOR N/A
Address

ACREAGE 265.54
SURFACE OWNER Michael Toia
Address P O Box 21
Columbia, MD 21045
ACREAGE 265.54

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

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address
APR - 2 1980

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

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 X / dated June 20, 1978, to the undersigned well operator from John R. Warren
[If 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 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
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (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

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

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5440 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 141 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
Fresh water	8 5/8					1230	1230	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5440'	Depths set
Tubing								
Runners								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.

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 included 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 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.

Date: , 19

By
Its