

39 20 30
80 42 30

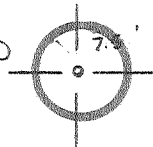
1.595
2.23W



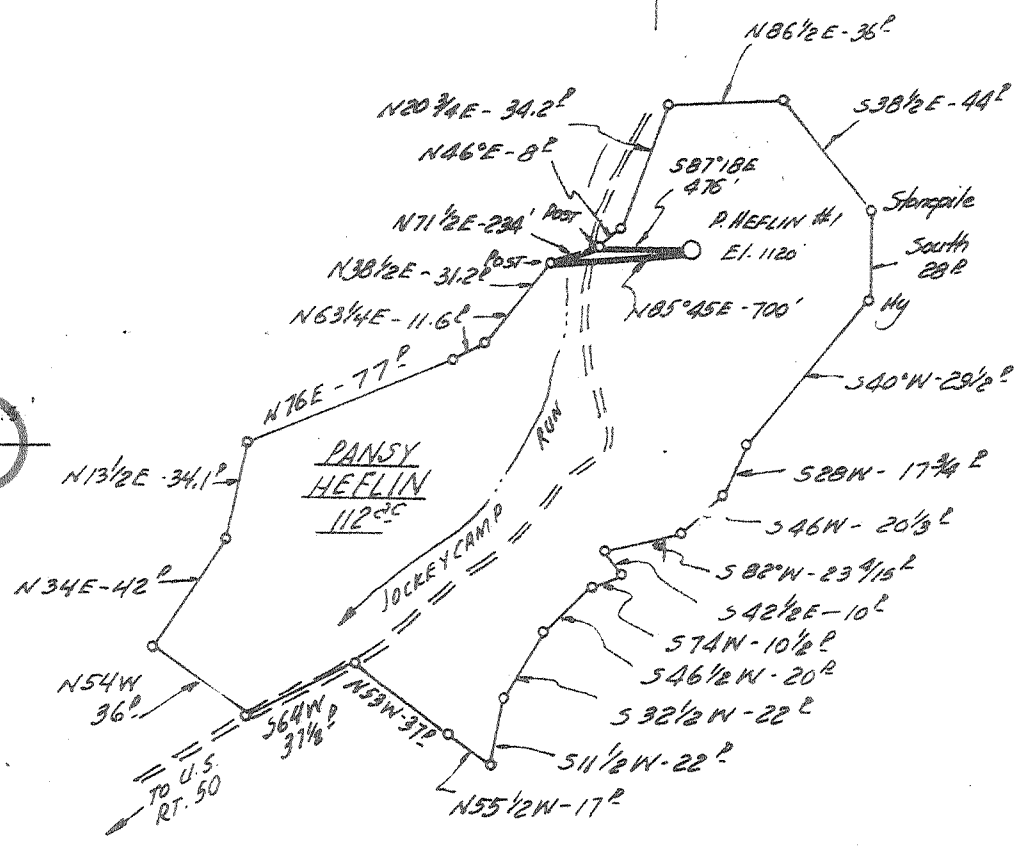
LONGITUDE 80° 40'

NORTH

1.585
2.19W



JOHN
CONLEHAN



B.F. HEFLIN

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM at SMITHBURG - ELEV. 797'

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) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE APRIL 18, 19 80
 OPERATOR'S WELL NO. HEFLIN #1
 API WELL NO. 47 - 017 - 2570RV
 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 1120' WATER SHED JOCKEYCAMP RUN
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5' CENTERPOINT 15' SW
 SURFACE OWNER SUSAN KOZEK ACREAGE 112
 OIL & GAS ROYALTY OWNER PANSY HEFLIN LEASE ACREAGE 112
 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 ELK ESTIMATED DEPTH 5400±
 WELL OPERATOR MERT DEVELOPMENT, INC. DESIGNATED AGENT MERT DEVELOPMENT, INC.
 ADDRESS ROUTE 8 BOX 336 AA FAIRMONT, W. VA. ADDRESS ROUTE 8 BOX 336 AA FAIRMONT, W. VA.



RECEIVED

JUL 7 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD ⁴

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Smithburg 7 1/2'

Permit No 47-~~2~~-2570

Company MERT Development, Inc.
Address Rt. 8 Box 336-AA Fairmont, WV
Farm Susan Rozek Acres 122
Location (waters) Jockey Camp Run
Well No. 1 Elev. 1120
District West Union County Dodridge
The surface of tract is owned in fee by Susan Rozek

Address Smithburg, WV
Mineral rights are owned by Pansy Heflin
Address Smithburg, WV
Drilling Commenced 4-28-80
Drilling Completed 5-2-80
Initial open flow 168 m cu. ft. -0- bbls.
Final production 855 m cu. ft. per day 2 bbls.
Well open 6 hrs. before test. 1900 RP/2 days

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	32	32	CTS
9 5/8			
8 5/8	1474	1474	400 5x
7			
5 1/2			
4 1/2	5380	5380	175 5x RFC
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf Alexander 5264-5324, 18 holes; frac Alexander 56,000# 20/40 sand with 633 bbl treated water, average rate 33.4 BPM, avg. treated pressure 2610 psig; ISIP 1400 psig.

Coal was encountered at 15 Feet _____ Inches
Fresh water 40 Feet _____ Salt Water 1000' Feet _____
Producing Sand Alexander Depth see above

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Little Lime	Black	Hard	1839	1854		
Shale	Black	Soft	1854	1866		
Big Lime	Gray	Hard	1866	1900		
Sand	Brown	Hard	1900	1910		
Lime	Gray	Hard	1910	1940		
Shale	Black	Med.	1940	1970		
Sand	White	Hard	1970	2060		
Shale	Black	Soft	2060	2340		
Sand	Gray	Hard	2340	2410		
Shale	Gray	Soft	2410	2554		
Sand	Black	Hard	2554	2577		
Shale	Black	Soft	2577	2632		
Sand	White	Hard	2632	2646		
Shale	Black	Soft	2646	2983		
Sand	Gray	Hard	2983	3040		
Shale	Gray	Soft	3040	3113		

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DEPT. OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

JUL 28 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand	White	Hard	3113	3410		
Shale	Gray	Soft	3410	4040		
Sand	Gray	Med.	4040	4060		
Shale	Gray	Soft	4060	5260		
Sand	<i>ALEX</i> Brown	Hard	5260	5350		
Shale	Gray	Soft	5350	5430 TD		

* Electric Log Tops

Little Lime	1835-1855
Blue Monday	1863-1908
Big Lime	1908-1953
Injun	1953-2064
Weir	2200-2330
Berea	2428-2435
Gordon	2607-2654
Ceder Creek	5150-5170
Alezander	5260-5340

Date 6-6 1980

APPROVED [Signature] Owner

By [Signature]
(Title) VP

6/15/80



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
DEC 31 1979
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Susan Rozek
Address Smithburg, WC
Mineral Owner Pansy Heflin et al
Address Smithburg, WV
Coal Owner Pansy Heflin et al
Address Smithburg, WV
Coal Operator None
Address _____

DATE December 28, 1979
Company MERT Development, Inc
Address Fairmont, WV
Farm Pansy Heflin Acres 122
Location (waters) Jockycamp Run
Well No. 1 Elevation 1056
District West Union County Doddridge
Quadrangle Smithburg, 7 1/2 min

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 9-2-80.

INSPECTOR
TO BE NOTIFIED _____
ADDRESS _____
PHONE _____

Robert S. Bell
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Nov 30 1972 by Pansy Heflin et al made to Royal Resources and recorded on the 6 day of Dec 1972, in Doddridge County, Book 98 Page 56
X NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours,
(Sign Name) [Signature]
Well Operator
Rt 8 Box 336-AA
Street
Fairmont
City or Town
West Virginia
State

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-017-2570

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-5 and will carry out the specified requirements."

Signed by [Signature]

BLANKET BOND

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Ray Resources NAME R.J. Yedlosky
 ADDRESS Charleston, WV ADDRESS Rt 8 Box 336-AA, Fairmont, WV
 TELEPHONE 344 8393 TELEPHONE 366-9111
 ESTIMATED DEPTH OF COMPLETED WELL: 5412 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: 3rd Elk
 TYPE OF WELL: OIL _____ GAS _____ COMB. STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30'	30'	
9 - 5/8			
8 - 5/8	1400'	1400'	CTS
7			
5 1/2			
4 1/2	5400'	5400'	2500' fillup
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20' FEET SALT WATER 1300 FEET
 APPROXIMATE COAL DEPTHS 706
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title