



LATITUDE 38° 57' 30" (7 1/2)
39° 00" (15°)

LONGITUDE 81° 40' (7 1/2) & (15°)

JAMES C. CARMICHAEL
W.A. ELICKELBERRY
ENID RANKIN
CORA SHOCKEY
OKEY BUTCHER

Fence Corner Call of Ash
Fence Corner Call of Stone
Fence Corner
Stake

N 68° 03' E 1482.69'
S 71° 06' E 654.60'
N 22° 30' W 1188 (Deed)
S 44° 36' W 1076.41'
S 32° 52' E 1222.62'
PROPOSED LOCATION ELEV. 862.48
46.30 Ac.

S 3° 33'
W 1° 53'
Connected to location

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed Frank J. Barker U.S. #289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING CO.
ADDRESS P.O. BOX 537 RIPLEY, WEST VIRGINIA
FARM ENID RANKIN, MARJORIE E. Allen
MAP ACRES 46.30 LEASE NO.
WELL (FARM) NO. 1 SERIAL NO. DEK 56
ELEVATION (SPIRIT LEVEL) 862.48
QUADRANGLE SANDYVILLE 7 1/2° RIPLEY 15° NW
COUNTY JACKSON DISTRICT RAVENSWOOD
POINT OF PROVEN ELEVATION ROAD INTERSECTION ON STRAIGHT FORK ELEV. 614
FILE NO. G- JULY 22, 1978 DRAWING NO. SCALE 1" = 500 FT.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. JAC -1461
035
+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN. 47-035
- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 18

Quadrangle Sandyville
Permit No. JAC -1461 (47-035-1461)

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

Company <u>KAISER EXPLORATION & MINING CO.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>PO Box 537, Ripley, WV</u>				
Farm <u>Enid Rankin</u> Acres <u>46</u>	Size			
Location (waters) <u>Shockey Run</u>	20-16			
Well No. <u>DEK #56</u> Elev. <u>870 KB</u>	Cond.			
District <u>Ravenswood</u> County <u>Jackson</u>	13-10"			
The surface of tract is owned in fee by <u>Marjorie E. Allen</u>	9 5/8	243	243	110 Sax
Address <u>Rt. 2, Ravenswood, WV</u>	8 5/8			
Mineral rights are owned by <u>Enid Rankin</u>	7	2413	2413	75 Sax
Address <u>3377 Shell Rd, Ft. Myers, Fla.</u>	6 1/2			
Drilling Commenced <u>9/6/78</u>	4 1/2		4898	200 Sax
Drilling Completed <u>9/13/78</u>	3			
Initial open flow <u>47 MCFD</u> Scax 26cx bbls.	2			
Final production <u>248 MCFD</u> Scax 26cx bbls.	Liners Used			
Well open _____ hrs. before test <u>1500</u> RP.				

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing at 4759-4761 in Oriskany Sand with 16 shots. Water frac with 685 bbls water and 45,000# sand.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4759-4761

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	12		
Shale			12	162		
Broken Sand			162	220		
Sand			220	250		
Shale			250	305		
Sand			305	340		
Shale			340	623		
Sand			623	685		
Shale			685	710		
Red Rock			710	758		
Sand			758	838		
Red Rock			838	905		
Shale			905	1030		
Red Rock			1030	1040		
Shale			1040	1112		
Red Rock			1112	1130		
Sand			1130	1270		
Shale			1270	1400		
Broken Sand			1400	1495		
Shale			1495	1670		
Broken Sand			1670	1760		
Big Lime			1760	1905		
Shale			1905	1987		
Injun Sand			1987	2014		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			2014	2326		
Coffee Shale			2326	2357		
Berea Sand			2357	2360		
Shale			2360	3514		
Brown Shale			3514	4041		
Shale			4041	4501		
Marcellus Shale			4501	4653		
Onondaga L. S.			4653	4748		
Oriskany Sand			4748	4764		
Helderberg L. S.			4764	4926		
Total Depth			4926			

Date December 1, 1978

APPROVED Kaiser Exploration & Mining Co., Owner

By Karl A. Payer
(Title)
Operations Manager

[08-78]

REVISED
WELL OPERATOR'S REPORT
OF

DRILLING, REWORKING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production X / Underground storage ___ / Free ___ / Shallow ___)
LOCATION: Elevation: 870 Watershed: Shockey Run
District: Ravenswood County: Jackson Township: Sandyville (7.5')

WELL OPERATOR Kaiser Exploration and Mining DESIGNATED AGENT SAME
Address P. O. Box 8 Address _____
Ravenswood, WV 26164

PERMITTED WORK: Drill ___ / Convert ___ / Drill deeper ___ / Re-drill ___ / Fracture or stimulate
Plug off old formation X / Perforate new formation X / Other physical change in well (specify) _____

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PERMIT ISSUED ON September 6, 1978

OIL & GAS INSPECTOR FOR THIS WELL DEPARTMENT OF MINES

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

Name Richard Morris
Address P. O. Box 372
Grantsville, WV

GEOLOGICAL TARGET FORMATION: Plugged Oriskany; Fractured Br. Shale old Depth 4926 feet

NEW Depth of completed well, 4100 (KB) feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh, ___ feet; salt, ___ feet.

Coal seam depths: NONE Is coal being mined in the area? NO
PLUG BACK Work was commenced August 27, 1980, and completed August 28, 1980

CASING AND TUBING PROGRAM: See previous well record filed upon Oriskany completion.

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								Winds
Fresh water								
Coal								Sizes
Intermediate								
Production								Deaths set
Tubing								
Liners								Perforations: Br. Shale 3819 Top 4040 Bottom

OPEN FLOW DATA

OLD Producing formation Devonian Oriskany Sandstone Pay zone depth 4759-4761 feet
Gas: Initial open flow, 47 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 248 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, N/A hours
Static rock pressure, 1500 psig (surface measurement) after N/A hours shut in.

[If applicable (as to multiple completion--)]

Second producing formation Devonian Brown Shale Pay zone depth 3819-4040 feet
Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 50 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, N/A hours
Static rock pressure, 420 psig (surface measurement) after N/A hours shut in.

MAR 01 1982



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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SEP - 5 1978
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 5, 1978

Surface Owner Marjorie E. Allen

Company KAISER EXPLORATION & MINING CO.

Address Rt. 2, Ravenswood, W. Va. 26164

Address PO Box 537, Ripley, W. Va.

Mineral Owner Enid Rankin

Farm Enid Rankin Acres 46 ac

Address 3377 Shell Road, Ft. Myers Beach, FLA 33931

Location (waters) Shockey Run of Straight Fork

Coal Owner Same as above

Well No. DEK 56 Elevation 862.48

Address _____

District Ravenswood County Jackson

Coal Operator Not Operated

Quadrangle Sandyville 7 1/2"

Address _____

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 1-6-79.

INSPECTOR TO BE NOTIFIED Richard J. Morris

ADDRESS P. O. Box 372, Grantsville, WV

PHONE 354-7259

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 July 13th 1970 by Enid Rankin made to Commonwealth Gas Corp. and recorded on the _____ day of _____ 1970 in Jackson County, Book 114 Page 591

XXX 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.

Very truly yours, KAISER EXPLORATION AND MINING CO.

(Sign Name) R. A. Pryce

R. A. Pryce, Well Operator, Operations Manager
118 McGraw St.

Address of Well Operator

Ripley
City or Town
West Virginia 25271

State

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

W. VA. OIL & GAS CONSERVATION COMMISSION
613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

BLANKET BOND

*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.

JAC-1461

47 035

PERMIT NUMBER

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

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME FWA Drilling Co., Inc NAME Robert A. Pryce
 ADDRESS Box 448, Elkview, W. Va. ADDRESS Box 537, Ripley, W. Va.
 TELEPHONE 965-3379 TELEPHONE 372-2827
 ESTIMATED DEPTH OF COMPLETED WELL: 4925 ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS XXX 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			
9 - 5/8	250	250	110 sax=to surface
8 - 5/8			
7	2425	2425	75 sax=625'
5 1/2			
4 1/2		4925	200 sax=2400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None anticipated
 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