





ACCURACY: 1' / 200'

Source of Elevation B. M. (1086')

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.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Chet Waterman

Company	KRENNERMAN OIL COMPANY	
Address	RAVENSWOOD, WV	
Farm	L. E. BURDETTE	
Tract	Acres 45	Lease No.
Well (Farm) No.	1	Serial No.
Elevation (Spirit Level)	755'	
Quadrangle	BELLEVILLE	SW
County	JACKSON	District GRANT
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	77003-288	Drawing No.
Date	7/21/77	Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. JAC-1421

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.

— Denotes one inch spaces on border line of original tracing.

DEC 15 1977
47-035

Deep well 4500' Onskan 4 6-4 NEPTUNE 255 255



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SEP 1 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Belleuille

Permit No. JAL-1421

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

Company Krennerman Oil & Gas Inc.

Address 131 N. Eberhart Rd. Rutledge, Pa.

Farm L. E. Burdette Acres 45

Location (waters) unnamed branch

Well No. 1 Elev. 755

District Grant County Dickson

The surface of tract is owned in fee by _____

L. E. Burdette

Address Rt. 1 Murrayville, W.Va.

Mineral rights are owned by L. E. Burdette

Address Rt. 1 Murrayville

Drilling Commenced Sept. 9, 1977

Drilling Completed Aug. 17, 1978

Initial open flow 10 m cu. ft. _____ bbls.

Final production 40 m cu. ft. per day _____ bbls.

Well open 6 hrs. before test _____ RP.

Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size <u>20 1/2</u>			
Cond. <u>13"</u>	<u>20'</u>		<u>130 sks.</u>
<u>18-10"</u>		<u>625</u>	
<u>9 5/8</u>			
<u>8 5/8</u>	<u>851'</u>		
<u>7</u>	<u>1666'</u>		
<u>5 1/2</u>			
<u>4 1/2</u>		<u>4442'</u>	
<u>3</u>			
<u>2</u>			
Liners Used			

Attach copy of cementing record.

pumped 852 bbls water
300 cu. ft. 20/40 sand
300 cu. ft. 20/100 sand
2000 gal. 28% HCl

Coal was encountered at none Feet _____ Inches _____

Fresh water 37 Feet 15 Salt Water _____ Feet _____

Producing Sand ORISKANY Depth 4370-4392

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	20		
Sand			20	45		water (hole full)
Red Rock			45	65		
Slate			65	70		
Red Rock			70	75		
Lime			75	100		
Red Rock			100	200		
Sand			200	210		water 5 BBL/hr.
Red Rock			210	227		
Sand			227	271		water 3 BBL/hr.
Lime			271	275		
Slate			275	365		
Red Rock			365	375		
Lime			375	453		
Sand			453	470		
Slate			475	480		
Lime			480	500		
Sand			500	530		
Slate			530	595		
Sand			595	623		
Red Rock			623	628		
Slate			628	690		
Red Rock			690	700		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			700	710		
Red Rock			710	752		
Slate			762	774		
Lime			774	812		
Lime			812	842		
Slate			842	820		
Sand			920	944		
Slate			944	1020		
Sand			1020	1070	water	3880
Slate			1070	1130		
Sand			1130	1150		
Slate			1150	1175		
Sand			1175	1240		
Slate			1240	1252	water	
Sand			1253	1277		
Lime			1277	1315		
Lime			1315	1470		
Lime			1470	1625		
Sand			1625	1655		
Sand			1655	1670		
Lime			1670	1734		
Slate			1734	1785		
Lime			1785	1785		
Lime			1785	1855		
Sand			1855	1864		
Lime			1864	1910		
Slate			1910	2100		
shale			2100	2117		
Lime			2117	2135		
Slate			2135	2245		
Lime			2245	2360		
Slate			2360	2370		
Lime			2370	2465		
Shale			2465	3800		
Brown shale			3800	3870		
Lime			3870	3905		
Slate			3905	4025		
Brown Shale			4025	4050		
Lime			4050	4070		
Slate			4070	4140		
Brown Shale			4140	4273		
Lime			4273	4370		
Sand	Oriskany		4370	4392		
Lime	HELDENBERG		4392	4450		

4273
755
3518

Date Sept 10 1928

APPROVED Joseph P. Kuntzky
Supt. Chief

RECEIVED
JUL 21 1987



1) Date: 7-8, 1987
 2) Operator's Well No. L.E. Burdette #1
 3) API Well No. 47 State 035 County 1421 -FRAC Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 755' Watershed: Lamp Run at Pond Creek
 District: Grant County: Jackson 035 Quadrangle: Bnd Creek WV 552
 6) WELL OPERATOR Rubin Resources Inc. CODE: 43025 7) DESIGNATED AGENT Rick Rubin
 Address 1007 C Bridge Rd. Charleston, WV 25314 Address 1007 C Bridge Rd. Charleston, WV 25314
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tophabock 9) DRILLING CONTRACTOR: Name N/A
 Address Rt. 1 Ripley, WV 25271 Address _____
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
 12) Estimated depth of completed well, 3900 feet
 13) Approximate strata depths: Fresh, See attached feet; salt, _____ feet.
 14) Approximate coal seam depths: well record Is coal being mined in the area? Yes / No

15) 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		Kinds	Sizes
Conductor	13'					20'				
Fresh water	10'					625'	625'			
Coal										
Intermediate	8 1/2"					851'				
Production	7"					1666'				
Tubing	4 1/2"					4442'	4442'			
Liners										

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-1421-FRAC Date July 27 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. JULY 27, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other:
				220 2021			

Joh N. Roberts
 Director, Division of Oil and Gas

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

Perforating: Shale

34 Perforations

Open → 2910' Top Perforation

Close 3824' Bottom Perforation

Fracturing: Shale

771 Sks. Sand

75 Quality Foam

Single Stage

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<p>e log strat by WTL asail (in part)</p>					

(Attach separate sheets as necessary)

Robin Resources Inc.
Well Operator

By: Rich Rubin

Date: 1-29-88

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 ~~minerals~~, encountered in the drilling of a well."

907



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

SEP - 9 1977
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

PK

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

DATE Sept. 9, 1977
Surface Owner L. E. Burdette Company Kremerman Oil & Gas
Address Murraysville, Rt. 1 W. Va. Address 131 N. Eberhart Rd. Butler, Pa. 16001
Mineral Owner L. E. Burdette Farm L. E. Burdette Acres 45
Address Murraysville, Rt. 1 W. Va. Location (waters) un name branch
Coal Owner L. E. Burdette Well No. 1 Elevation 755'
Address Murraysville, Rt. 1 W. Va. District Grant County Jackson
Coal Operator none Quadrangle Belleville
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 3-29-78

INSPECTOR TO BE NOTIFIED Richard Morris
ADDRESS P.O. Box 372, Grantsville, W. Va.
PHONE 354-7259

[Signature]
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 Aug. 18 1977 by L. E. Burdette made to Kremerman Oil & Gas and recorded on the 22 day of Aug 1977, in Jackson County, Book 145 Page 95

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:

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Address of Well Operator

Very truly yours,
(Sign Name) Joseph P. Kuntzky Jr. Well Operator
704 Fitzhugh St. Street
Ravenwood City or Town
W. Va. 26164 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.

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

Signed by Joseph P. Kuntzky Jr.

Jac-1421 PERMIT NUMBER
47-035

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 Krennerman Oil & Gas
ADDRESS 171 N. Eberhart Rd., Butler, Pa.
TELEPHONE 412-482-4065

NAME Joseph Krenitsky
ADDRESS 704 Fitzhugh St. Ravenswood, W.Va.
TELEPHONE 273 2798

ESTIMATED DEPTH OF COMPLETED WELL: 4500

ROTARY _____ CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Oriskany

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			
9 - 5/8	<u>20'</u>		
8 - 5/8	<u>800'</u>	<u>600'</u>	<u>200 sacks</u>
7	<u>1700'</u>		
5 1/2			
4 1/2		<u>4500'</u>	<u>50 sacks</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 120 FEET 380 SALT WATER 840 FEET 1680

APPROXIMATE COAL DEPTHS none

IS COAL BEING MINED IN THE AREA? no BY WHOM? no

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