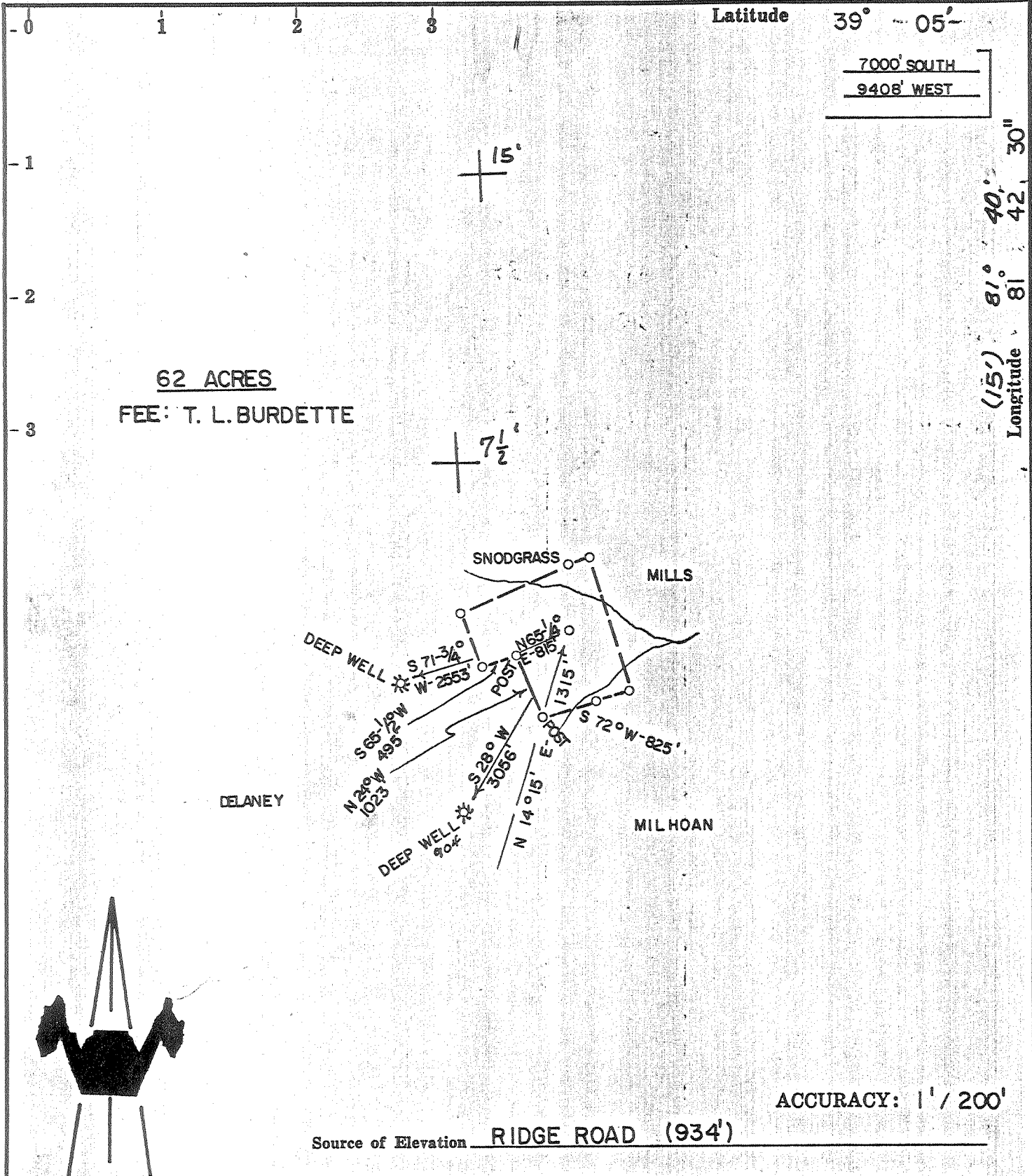
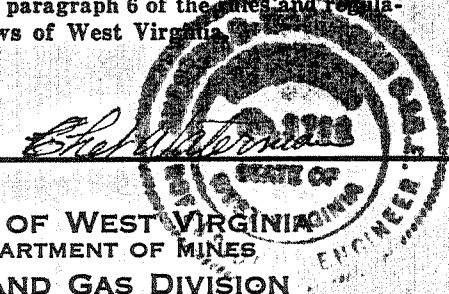


3/19/78



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.



Company KRENNERMAN OIL & GAS CO.  
 Address RAVENSWOOD, WV  
 Farm T. L. BURDETTE  
 Tract \_\_\_\_\_ Acres 62 Lease No. \_\_\_\_\_  
 Well (Farm) No. + 2 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 880', BELLEVILLE  
 Quadrangle POND CREEK (7.5' SERIES)  
 County JACKSON District GRANT  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 78-003-603 Drawing No. \_\_\_\_\_  
 Date 11/29/78 Scale 1" = 2000'

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

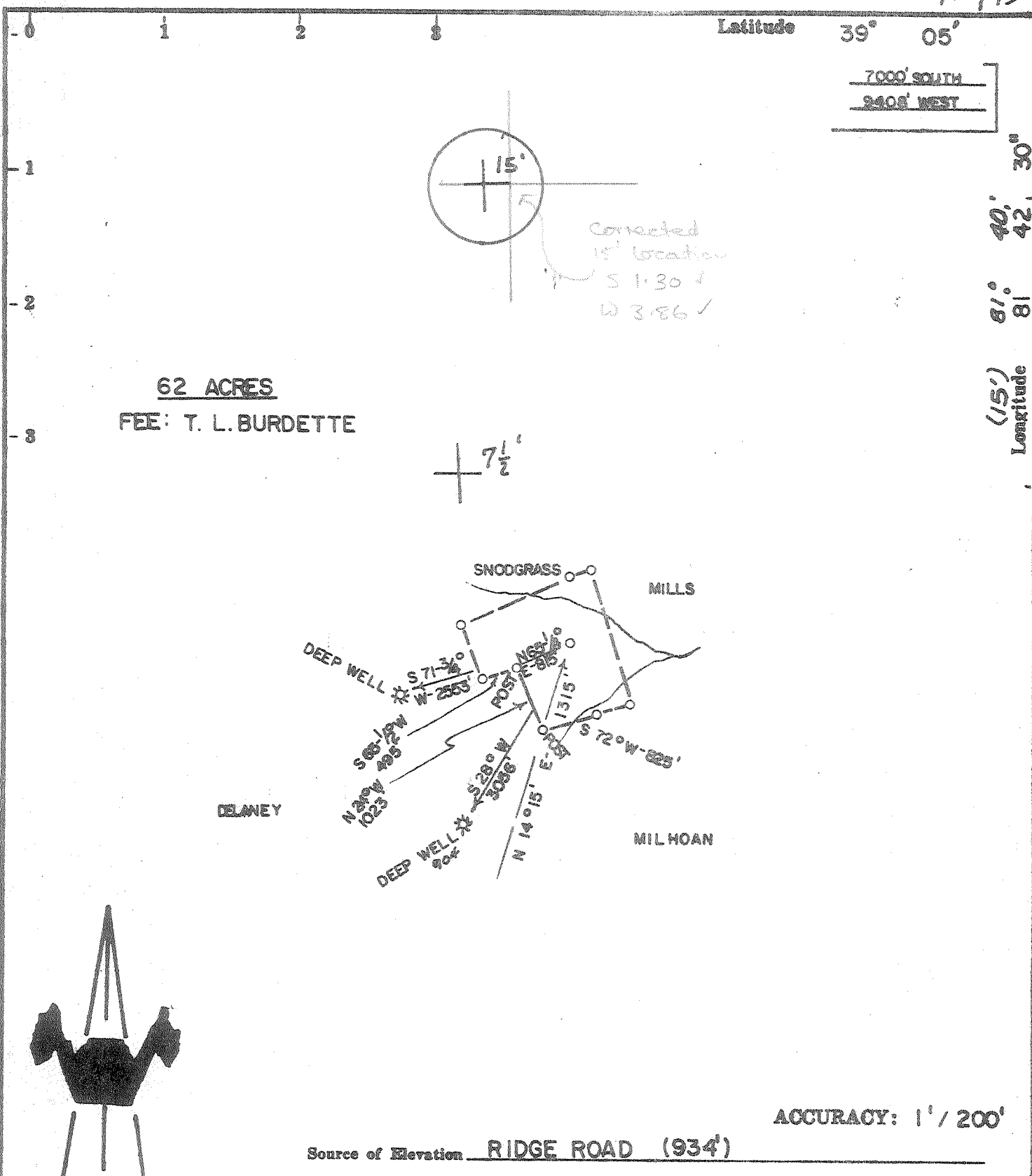
WELL LOCATION MAP  
 FILE NO. 47-035-1472-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.  
 — Denotes one inch spaces on border line of original tracing.

DEC 23 1986

Drill Kern 4500' DEEP WELL

3/19/78



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 provisions of the oil and gas section of the mining laws of West Virginia.

Company KRENNERMAN OIL & GAS CO.  
 Address RAVENSWOOD, WV  
 Farm T. L. BURDETTE  
 Tract \_\_\_\_\_ Acres 62 Lease No. \_\_\_\_\_  
 Well (Farm) No. + 2 Serial No. SW  
 Elevation (Spirit Level) 880', BELLEVILLE  
 Quadrangle POND CREEK (7.5' SERIES)  
 County JACKSON District GRANT  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 8788  
 File No. 78-003-603 Drawing No. \_\_\_\_\_  
 Date 11/29/78 Scale 1" = 2000'

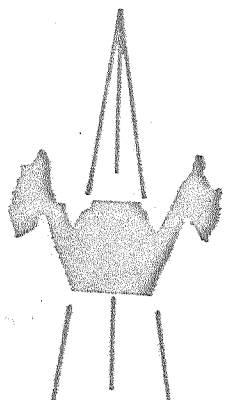
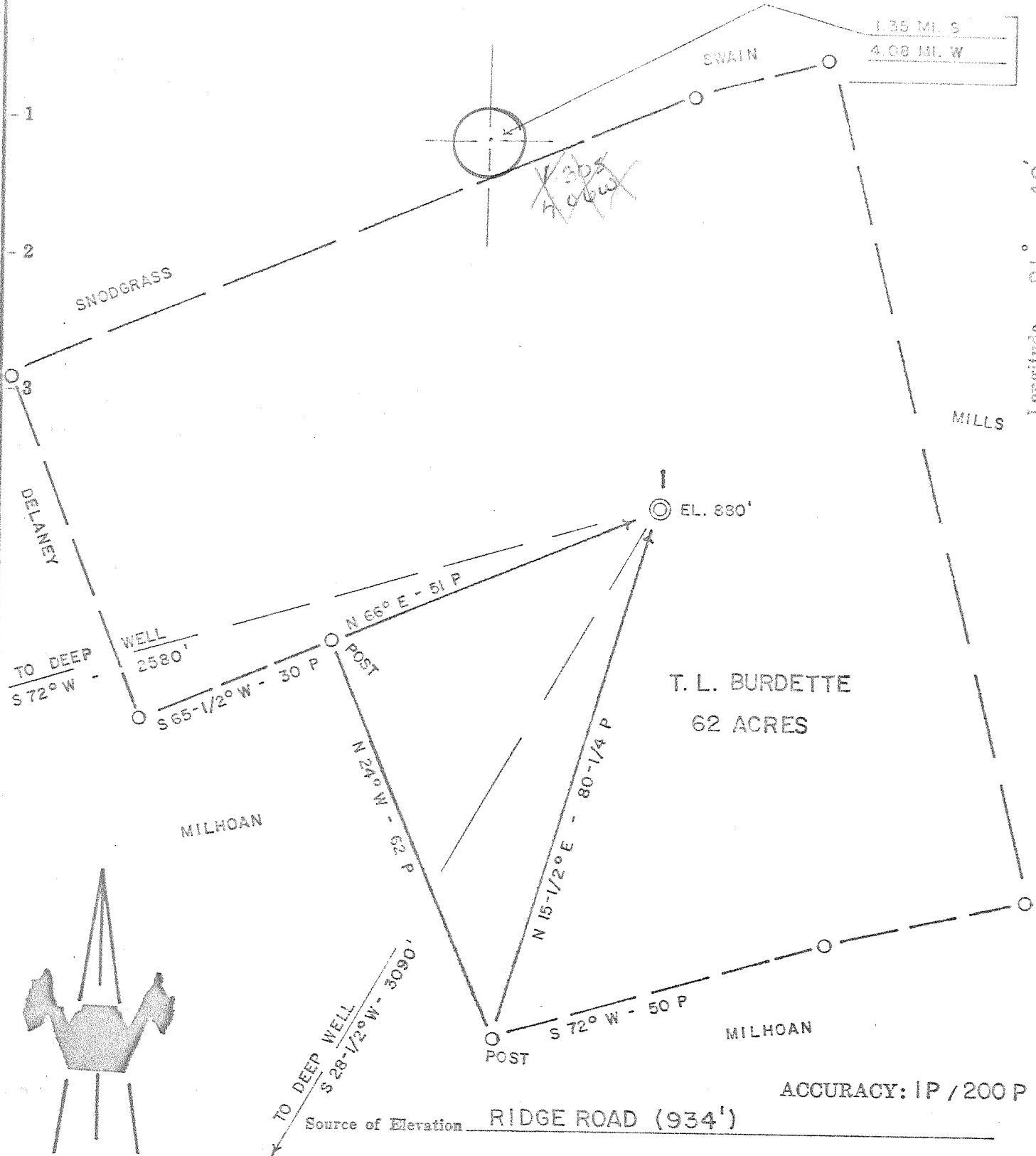
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

WELL LOCATION MAP  
FILE NO. 47-035-1472-REV-DD

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.  
APR 10 1979

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

Oriskany 4500' 6-6 Neptune (255)



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

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.

*Chet Waterman*

Company	KRENNERMAN OIL & GAS CO.
Address	RAVENSWOOD, WV
Farm	T. L. BURDETTE
Tract	Acres 62 Lease No.
Well (Farm) No.	1 Serial No.
Elevation (Spirit Level)	880'
Quadrangle	BELLEVILLE 15' Pond C.K.
County	JACKSON District GRANT
Engineer	CHET WATERMAN
Engineer's Registration No.	3788
File No.	78003-603 Drawing No.
Date	11/29/78 Scale 1" = 20 P

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

WELL LOCATION MAP  
FILE NO. 47-035-1472

+ 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.

4500' Shale

JAN 21 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JAN 22 1980

Oil and Gas Division  
WELL RECORD 15

OIL & GAS DIVISION  
DEPT. OF MINES

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

Quadrangle Belleville  
Permit No. 47-035-1472-D1D

Company <u>Kavanaugh Oil &amp; Gas Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>704 Kitzburg St. Parkersburg W. Va.</u>				
Farm <u>T.L. Burdette</u> Acres <u>6.2</u>	Size			
Location (waters) <u>un named creek</u>	20-16			
Well No. <u>2</u> Elev. <u>580</u>	Cond.			
District <u>Grant</u> County <u>Jackson</u>	<u>13-10"</u>	<u>20'</u>		<u>250 size 1/2 Fill to surface</u>
The surface of tract is owned in fee by <u>Tom Burdette</u>	<u>9 5/8</u>		<u>648</u>	
Address <u>147 E. Kavanaugh St. Parkersburg W. Va.</u>	<u>8 5/8</u>			
Mineral rights are owned by <u>Kavanaugh Oil</u>	<u>7</u>			
Address <u>Kavanaugh St.</u>	<u>5 1/2</u>			
Drilling Commenced <u>5-25-79</u>	<u>4 1/2</u>		<u>4500</u>	
Drilling Completed <u>10-3-79</u>	<u>3</u>			
Initial open flow <u>25 MCF</u> cu. ft. _____ bbls.	<u>2</u>		<u>4496</u>	
Final production _____ cu. ft. per day _____ bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

Coal was encountered at 11011 Feet 11011 Inches  
Fresh water 300 Feet 400 Salt Water 300 Feet 950  
Producing Sand Dark Grey Depth 4500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
top soil			0	3		
red rock			3	12		
sand			12	18		
red rock			18	112		
slate			112	240		
sand			240	365	water	
slate			365	454		
sand			454	501		
slate			501	694		
red rock			694	754		
slate			754	896		
sand			896	951	soft water	
slate			954	1204		
sand			1204	1306		
slate			1306	2107		

(over)

\* Indicates Electric Log tops in the remarks section.

JAN 21 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
slate			2107	2496		
Berry			2192	2195		show of gas
slate			2195	3325		
shale			3325	3650		
Brown shale			3650	3845		
slate			3845	3945		show of gas
shale			3945	4375		
lime			4375	4480		
Criskony			4480	4572		show of gas

Date 10-7

1930

APPROVED

*Joseph Kennedy*

Checked

By

(111)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

DEC 27 1978

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 12-21-78  
Company Krennerman Oil & Gas  
Address 704 Fitzhugh Ravenswood  
Farm T. L. Burdette Acres 62  
Location (waters) unnamed creek  
Well No. 1 Elevation 880  
District Grant County W. Va.  
Quadrangle Belleville

Surface Owner Thomas L. Burdette  
Address Murraysville, W. Va.  
Mineral Owner T. L. Burdette  
Address Murraysville, W. Va.  
Coal Owner none  
Address none  
Coal Operator none  
Address none

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 4-22-79.

INSPECTOR TO BE NOTIFIED Richard Morris  
ADDRESS 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 Dec 1 1978 by T. L. Burdette made to Krennerman Oil & Gas and recorded on the 15 day of Dec. 1978, in Jackson County, Book 150 Page 554

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

Very truly yours,  
(Sign Name) Joseph P. Kintsky  
Well Operator  
704 Fitzhugh  
Street  
Ravenswood  
City or Town  
W. Va.  
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.

BLANKET BOND

"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. Kintsky

35  
47-037-1472 PERMIT NUMBER

CORRECTED PERMIT NO.

1/4/79 → 47-35-1472

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

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Krennerman Oil & Gas NAME Joseph Krenitsky  
 ADDRESS 704 Fitzhugh Ravenswood WVa ADDRESS 704 Fitzhugh Ravenswood  
 TELEPHONE 273 2798 TELEPHONE 273 2798  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500 ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X 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			
<u>13</u> - 10	<u>20'</u>		
<u>8</u> - 5.8	<u>0'</u>	<u>700'</u>	<u>To surface</u>
8 - 5.8	<u>1200'</u>		
7	<u>1800'</u>		
5 1/2			
4 1/2		<u>4500'</u>	
3			Perf. Top
2		<u>4500'</u>	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 250 FEET 375 SALT WATER 800 FEET 950  
 APPROXIMATE COAL DEPTHS none  
 IS COAL BEING MINED IN THE AREA? none BY WHOM? none

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED  
MAR 19 1979  
OIL & GAS DIVISION  
DEPT. OF MINES

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

Surface Owner Thomas L. Burdette  
Address Murraysville, W. Va.  
Mineral Owner T.L. Burdette  
Address Murraysville, W. Va.  
Coal Owner none  
Address none  
Coal Operator none  
Address none

DATE Mar. 18, 1979  
Company Krenneman Oil & Gas Co. Inc.  
Address 704 Fitzhugh St. Ravenswood  
Farm T.L. Burdette Acres 1.2  
Location (waters) Ummal creek  
Well No. 2 Elevation 880  
District Grant County Jackson  
Quadrangle Belleuille

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 deeper. This permit shall expire if  
operations have not commenced by 11-19-79.

INSPECTOR  
TO BE NOTIFIED Richard Morris  
ADDRESS Burntsville, W. Va.  
PHONE 354-7259

Robert B.  
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 Dec. 1 1978 by T.L. Burdette made to Krenneman Oil & Gas and recorded on the 15 day of Dec 1978, in Jackson County, Book 150 Page 556

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

Very truly yours,  
(Sign Name) Joseph P. Kuntzky  
Well Operator  
Address 704 Fitzhugh  
of Ravenswood  
Well Operator City or Town  
W. Va. 26169  
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.

BLANKET BOND

47-035-1472-DD PERMIT NUMBER

"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



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

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Kreunacker Oil & Gas NAME Joseph Krenitsky  
 ADDRESS 704 Fitzhugh, Ravenswood ADDRESS 704 Fitzhugh Ravenswood  
 TELEPHONE 273 2798 TELEPHONE 273 2798  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500 ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X 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			
<u>13 - 10</u>	<u>20'</u>		
<u>9 - 5/8</u>		<u>600</u>	<u>250 SACKS</u>
8 - 5/8	<u>1000</u>		
7	<u>1800</u>		<u>Fill to surface</u>
5 1/2			<u>&amp; circulate</u>
4 1/2		<u>4500</u>	
3			Perf. Top
2			Perf. Bottom
Liners		<u>4500</u>	Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 250 FEET 375 SALT WATER 800 FEET 950  
 APPROXIMATE COAL DEPTHS None  
 IS COAL BEING MINED IN THE AREA? None BY WHOM? None

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

**RECEIVED**  
JAN 26 1987

AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

<u>None</u> Coal Operator or Owner	<u>Krennerman Oil &amp; Gas Company</u> Name of Well Operator
Address	<u>139 Winterwood Drive, Butler, PA 16001</u> Complete Address
Coal Operator or Owner	January 21, 19 <u>87</u>
Address	WELL AND LOCATION
<u>Thomas L. Burdette</u> Lease or Property Owner	Grant <u>Jackson</u> District
<u>Rt. 1, Ravenswood, WV 26164</u> Address	County
	WELL NO. <u>2</u>
	<u>T.L. Burdette</u> Farm

STATE INSPECTOR SUPERVISING PLUGGING Jerry Tephabock

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Gilmer

ss:

Rodney Pettit and Timothy Mark Meadows

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Bet-Ro, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 14th day of January, 19 87, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
This well was previously plugged back according to a Dowell engineer that did the job from 4500' to 2200' with solid cement pumped down the 4 1/2" pipe			1500	3000
2176 to 2050	Cement			648
2050 to 1500	6% Gel			
1500 to 1400	Cement			
1400 to 1100	6% Gel			
1100 to 1000	Cement			
1000 to 750	6% Gel			
750 to 650	Cement			
650 to 100	6% Gel			
100 to 0	Cement			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				

4 1/2"  
9 5/8"

*[Signature]* 1/28/87  
Description of Monument

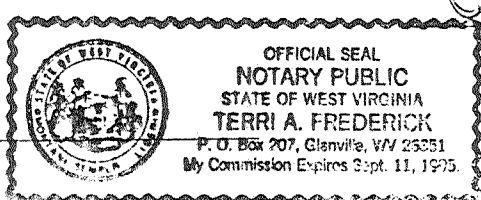
and that the work of plugging and filling said well was completed on the 16th day of January, 19 87.

And further deponents saith not. T. Mark Meadows

Sworn to and subscribed before me this 21st day of January, 19 87.

Rodney Pettit  
Jerry A. Frederick  
Notary Public

My commission expires:  
September 11, 1995



1987  
Permit No. 47-035-1472DD-P