

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:2000'
 PROVEN SOURCE OF ELEVATION W.V. D.O.H. B.M. ON 1.77, 1600' ± EAST OF WELL

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) Kenneth A. Dell
 R.P.E. _____ L.L.S. 369

PLACE SEAL HERE

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



DATE JUNE 20, 1981
 OPERATOR'S WELL NO. GARRETT #1
 API WELL NO. _____
47 - 107 - 1165-Frac.
 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 737 WATER SHED BIG RUN
 DISTRICT WILLIAMS O COUNTY WOOD
 QUADRANGLE VALLEY MILLS, W.VA-OHIO 650 073 WC4 Marietta
 SURFACE OWNER CHARLES D & ELEANOR P. GARRETT ACREAGE 53
 OIL & GAS ROYALTY OWNER CHARLES & ELEANOR GARRETT LEASE ACREAGE 53
 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) _____

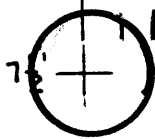
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000' 6-6 Boaz (70)

WELL ADDRESS: Rimrock Production Corporation DESIGNATED AGENT Robert L. Murdock, Agent
P.O. Drawer 4270 ADDRESS Same Address
Parkersburg, WVa. 26104 PH: 304-464-4500

OCT 27 1986

39° 25'
39° 22' 30"

0.32 S
1.50 W

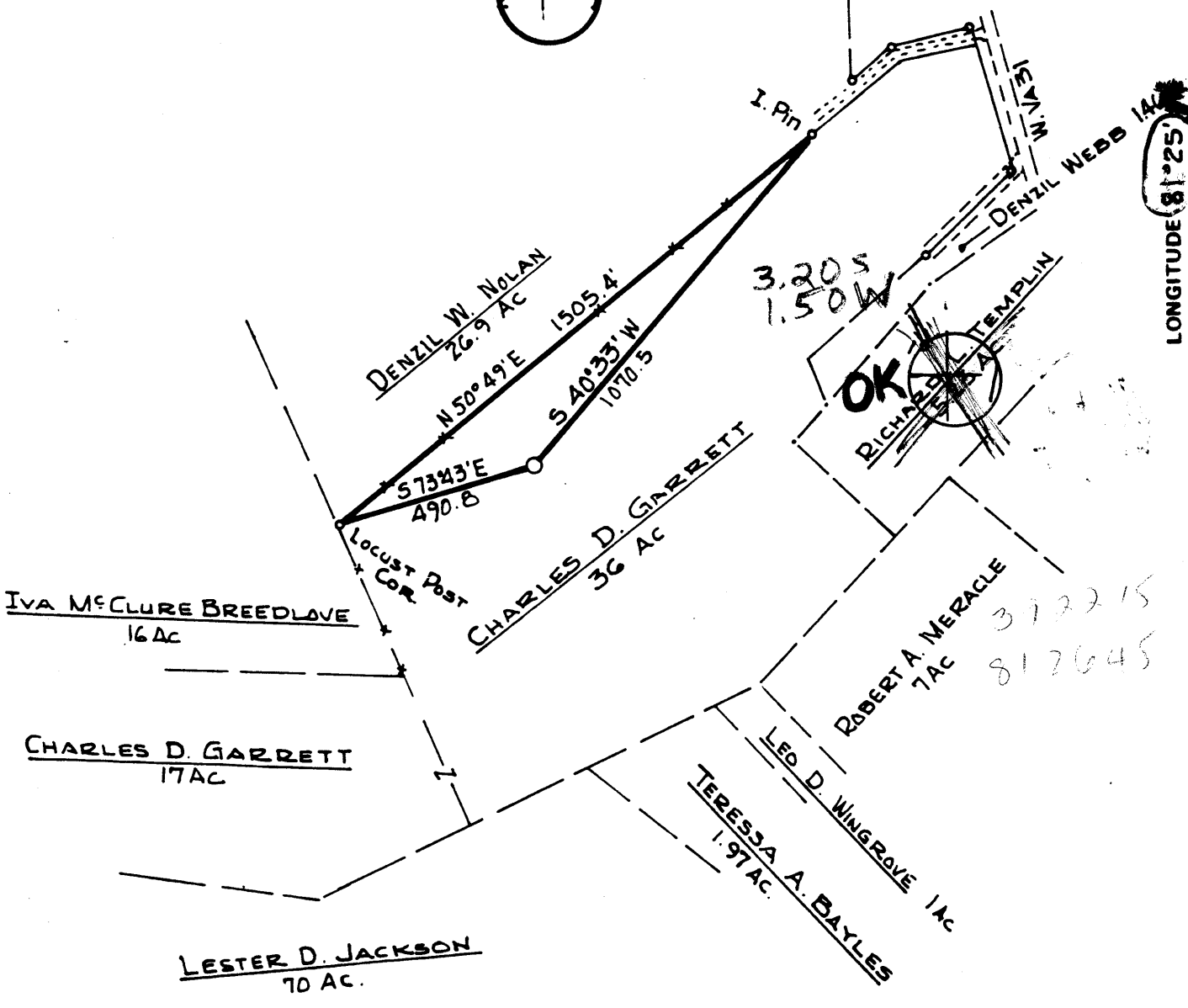


1680'

LONGITUDE 81° 25'

81° 25'

NORTH



FILE NO. _____
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PROVEN SOURCE OF ELEVATION W.V. D.O.H. B.M. ON I-77, 1600' ± EAST OF WELL

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(SIGNED) Kenneth A. Well
R.P.E. _____ L.L.S. 369

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JUNE 20, 1981
OPERATOR'S WELL NO. GARRETT #1
API WELL NO. _____
47 - 107 - 1165
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 737 WATER SHED BIG RUN

DISTRICT WILLIAMS COUNTY WOOD

QUADRANGLE VALLEY MILLS, W.VA. OHIO Marietta 15'

SURFACE OWNER CHARLES D & ELEANOR P. GARRETT ACREAGE 33 WC

OIL & GAS ROYALTY OWNER CHARLES & ELEANOR GARRETT LEASE ACREAGE 53

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 5000'

WELL OPERATOR LEB OIL CO DESIGNATED AGENT LOREN BAGLEY JUL 20 1981

ADDRESS 2ND ST. ADDRESS 2ND ST. 70

6-6 ST. MARYS W.VA. BOAZ ST. MARYS, W.VA.



IV-35
(Rev 8-81)

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FEB 13 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date 1/26/87
Operator's
Well No. #1
Farm Garrett
API No. 47 - 107 - 1165-F

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 737' Watershed Big Run
District: Williams County Wood Quadrangle Valley Mills

COMPANY Conquest Petroleum, Inc.

ADDRESS P. O. Box 549, Belpre, Ohio 45714

DESIGNATED AGENT Harry L. Murdock

ADDRESS 101 North Hills Dr., Parkersburg, WV 26104

SURFACE OWNER Charles Garrett

ADDRESS Rt.1, Williamstown, WV

MINERAL RIGHTS OWNER Same as Surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Glen
Robinson Rt. 1, #6, Mt. Pleasant Est. ADDRESS Mineral Wells, WV 26150

PERMIT ISSUED October 24, 1986 (Re-frac)

DRILLING COMMENCED 7/20/81 | 10-24-86

DRILLING COMPLETED 9/19/81 | 10-24-86

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	297'	297'	138 Sks.
13-10"			
9 5/8			
8 5/8	887'	887'	
7	1774'		
5 1/2	4050'	4050'	325 Sks.
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4054 feet

Depth of completed well 4050 feet Rotary / Cable Tools X

Water strata depth: Fresh 65 feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3707 3966 feet

Gas: Initial open flow 75 Mcf/d Oil: Initial open flow 0 Bbl/d

orig zone completed Final open flow 75 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 780 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Gordon & Thirty Foot Pay zone depth 2371 to 2826 feet

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

new zone completed Final open flow 100 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 658 psig (surface measurement) after 24 hours shut in

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

1st Stage - 38 Perforations, 2942 to 3900
700,000 SCF N₂

Frac Plug set @ 2850'

2nd Stage - 19 Perforations, 2371 to 2811' *new zone completed*
350 Gal. HCL
18,600 Gal 75 quality foam
200 Sks. 20/40 sand
200,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
			Bottom 7" Casing @ 1764'		
Weir			1764	1858	
Pocono Shale			1858	1970	
Coffee Shale			1970	2033	
Devonian Shale			2033	2363	Berea Absent
Thirty Foot			2363	2387	
Devonian Shale			2387	2518	
Gordon Series			2518	2559	
Devonian Shale			2559	<u>4054 TD</u>	

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FEB 13 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Rimrock Production Corporation
Well Operator

By: Robert L. Muddock

Date: 1/25/87

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."
7832

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IV-35
(Rev 8-81)

JAN 5 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date 12-23-81

Operator's

Well No. #1

Farm GARRETT

API No. 47-107-1165

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 737 Watershed BIG RUN
District: WILLIAMS County WOOD Quadrangle VALLEY MILLS

COMPANY LEB OIL CO., INC.
ADDRESS Box C, ST. MARYS, W.VA.
DESIGNATED AGENT LOREN E. BAGLEY
ADDRESS Box C, ST. MARYS, W.VA.
SURFACE OWNER CHARLES GARRETT
ADDRESS Rt 1, WILLIAMSTOWN, W.VA.
MINERAL RIGHTS OWNER SAME AS SURFACE
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK PAUL
GOODNIGHT ADDRESS Smithville, W.VA.
PERMIT ISSUED 7-2-81
DRILLING COMMENCED 7-20-81
DRILLING COMPLETED 9-19-81
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	297'	297'	138 SKS
9 5/8			
8 5/8	887		
7	1774		
5 1/2			
4 1/2		4050	325 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth 4054 feet
Depth of completed well 4050 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh 65 feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth 3707-3966' feet
Gas: Initial open flow 75 Mcf/d Oil: Initial open flow 0 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 780 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation N/A Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: 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

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

PERFORATIONS

20 - .39 holes 3707' - 3966'

STIMULATION

360,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red SHALE			0	100	
White SHALE			100	140	
Red SHALE & Lime			140	325	
White SHALE			325	380	
Red Rock			380	450	
SAND			450	500	
Red SHALE			500	560	
White SLATE			560	600	
Red SHALE			600	720	
SAND			720	730	
SLATE			730	750	
Red SHALE			750	810	
BLACK SLATE			810	870	
Lime			870	890	
BLACK SLATE			890	960	
SAND			960	1050	
SLATE			1050	1060	
SAND			1060	1120	SHOW OF OIL
SHALE			1120	1200	
SAND			1200	1275	
SLATE			1275	1280	
BROKEN SAND			1280	1340	
SAND			1340	1400	
SLATE BLACK			1400	1500	
SAND ?			1500	1675	

(Attach separate sheets as necessary)

1675 3600

LEBOILLO, TAC.

Well Operator

By:

Date:

[Signature]
12-28-81

BROWN SHALE 3600-3900
GRAY SHALE 3900-4054
DEV sh.
Huron © TD.

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

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JUL 2 1981



Well No. Garrett #1
Farm Charles D. Garrett
API # 47-107-1165
Date July 1 1981

STATE OF WEST VIRGINIA
OIL & GAS DIVISION
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil XX / Gas XX /

(If "Gas", Production XX / Underground storage ___ / Deep ___ / Shallow ___ /

LOCATION: Elevation: 737 Watershed: Big Run
District: Williams County: Wood Quadrangle: Valley Mills Ohio W.Va.

WELL OPERATOR L & B Oil Company Inc
Address 210 2ND STREET PO Box C
ST Marys W.Va. 26170

DESIGNATED AGENT Loren E Bagley
Address 210 2ND STREET PO. Box C
ST Marys W.Va. 26170

OIL AND GAS ROYALTY OWNER Charles D & Eleanor Garrett
Address _____

COAL OPERATOR N/A
Address _____

Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Charles D & Eleanor Garrett
Address _____

NAME N/A
Address _____

Acreage _____

NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME N/A
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME K Paul Goodright
Address R-R
Smithville W.Va. 26178
Telephone 304-477-3660

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease XX / other contract ___ / dated Jan 20th 1981, to the undersigned well operator from Charles D. Garrett & Eleanor P. Garrett His Wife

(If said deed, lease, or other contract has been recorded:)

Recorded on Jan 27th 1981, in the office of the Clerk of County Commission of

Wood County, West Virginia, in 750 Book at page 91. A permit is requested as follows:

PROPOSED WORK: Drill XX / 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

L & B Oil Company Inc.
Well Operator
By: Loren E Bagley
Its: President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Ohio Shale
Estimated depth of completed well 5000 feet. Rotary ? / Cable tools ? /
Approximate water strata depths: Fresh, 80 feet; salt, _____ feet.
Approximate coal seam depths: N/A
Is coal being mined in this area: Yes ? / No XX

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling	Left in Well		
Conductor	10 3/4"	LR	40.5 #	✓		250'	250'	To Surface	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 3/8"	LR	23 #	✓		1000'	1000'	To Surface	
Production Tubing	4 1/2"	LR	10.4 #	✓		5000'	5000'	(By Rule 1501) 500 Sks.	Depths set
Liners									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 §22-4-8, (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 noted as such on the Form IV-2 filed in connection therewith.

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 3-6-82.

J. E. Huggins
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 regularions.

Date: _____, 19____.

By: _____

Its: _____