

OWNERSHIP

Surface is owned by Olin and Mary Virginia is Rural Route. West Union.
 No coal in this vicinity
 Minerals owned by Gussie Leggett et al

LEGEND

- Lines from Deed
- Calls
- Surveyed Lines
- Roads
- Well Location

Minimum Error of Closure 1 in 200'
 Source of Elevation USGS elev at road at mouth of run
3000' approx. = 868

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.

Surface is still some on incl.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: M. S. Hester
 Squares: N S E W

Map No. _____

Meridian Exploration Corporation
 Penn Center W. Two, Ste. 325
 Pittsburgh, Pa. 15276

Farm Gussie Leggett

Tract _____ Acres 169 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 906

Quadrangle Oxford 7 1/2, Holbrook NC

County Doddridge District Central

Engineer M. S. Hester

Engineer's Registration No. 1227 665 200

File No. _____ Drawing No. _____

Date Dec. 27, 1978 Scale 1" = 500'

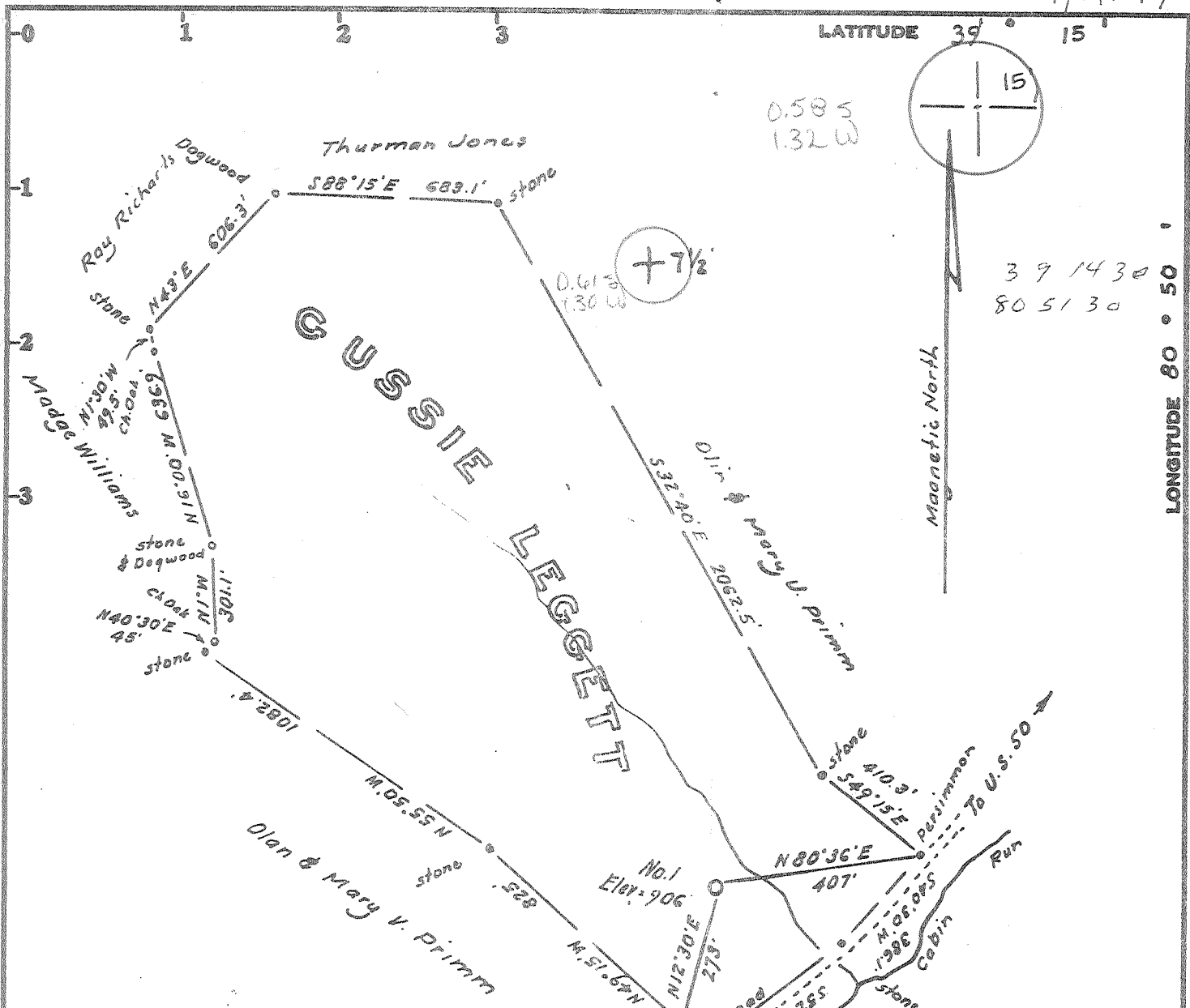
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NITRO, WEST VIRGINIA 25143

WELL LOCATION MAP

9 Pct Well No. 47-017-02341-F

*Original TO. 53144
 Original Production Alexander
 Rufus Ritey and Ritey 4522-4525
 Callaway New Formation*

1/3/78



OWNERSHIP

Surface is owned by Olin and Mary Virginia is Rural Route, West Union. No coal in this Vicinity Minerals owned by Gussie Leggett et al

LEGEND

- Lines from Deed
- Calls
- Surveyed Lines
- Roads
- Well Location

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev at road at mouth of run

3000' approx. = 868

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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.

Signed: M. Stetson
Squares: N S E W

Map No.

Company CHASE PETROLEUM
 Address P.O. Box 297, Glenville, W. Va.
 Farm Gussie Leggett
 Tract _____ Acres 169 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 906 NC
 Quadrangle Oxford 7 1/2', HOLBROOK 15'
 County Doddridge District Central
 Engineer M. Stetson
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date Dec. 27, 1978 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-017-2341

+ 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. FEB 9 1979

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

5300' Bowman 6-6 Straight Fork-Bluestone Creek (133)

RECEIVED
WV Division of
Environmental Protection

JAN 10 1997

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting Well Operator's Report of Well Work
Office of Oil & Gas

Farm name: PRIMM, OLIN

Operator Well No.: G. LEGGETT 1

LOCATION: Elevation: 906.00 Quadrangle: OXFORD

District: CENTRAL County: DODDRIDGE
Latitude: 3200 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 6920 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: MERIDIAN EXPLORATION CORP
PENN CENTER WEST TWO, STE 325
PITTSBURGH, PA 15276-0000

Agent: CT CORP. SYSTEM

Inspector: MIKE UNDERWOOD
Permit Issued: 03/14/96
Well work Commenced: 3/20/96
Well work Completed: 4/4/96
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) 5344
Fresh water depths (ft) None

Salt water depths (ft) 293

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 436

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	43	43	
8 5/8"	1725	1725	CTS
4 1/2"	5302	5302	2144
2"		5100'	

OPEN FLOW DATA

Producing formation Riley Pay zone depth (ft) 4126'-4158'
Gas: Initial open flow 400 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 400 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock Pressure 800 psig (surface pressure) after 24 Hours

Second producing formation Balltown Pay zone depth (ft) 3793'-3908'
Gas: Initial open flow 400 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 400 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock Pressure 800 psig (surface pressure) after 24 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MERIDIAN EXPLORATION CORP.

By: John Guide John Guide
Date: 1/6/97

JAN 21 1997

RILEY: Perforations: 4126'-4138' + 4150'-4158' 4 SPF

Fracture Treatment: 29,900 lbs 20/40 Sand X-Link Gel
(0) Zero Nitrogen
250 bbls water

BALLTOWN: Perforations: 3,793'-3,803' + 3,898'-3,908' 4 SPF

Fracture Treatment: 15,000 lbs 20/40 Sand X-Link Gel
(0) Zero Nitrogen
225 bbls water

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

FORM IV-35
(Obverse)

[08-78]

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, REWORKING, OR OTHER CHANGE

Operator's
Well No. 1

Well No. 47 - 017 - 234
State County Per

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep /

LOCATION: Elevation: 906 Watershed: Cabin Run
District: Central County: Doddridge Subdistrict: Oxford 7 1/2

WELL OPERATOR Chase Petroleum Corp. DESIGNATED AGENT Alton Skinner
Address Drawer 369 Address Drawer 369
Glennville, WV Glennville, WV

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

RECEIVED
FEB 28 1980

PERMIT ISSUED ON March 6, 19 79 OIL & GAS INSPECTOR FOR THE STATE OF WEST VIRGINIA

OIL & GAS DIVISION
DEPT. OF MINES

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name: P.W. Garrett
Address Clarksburg, WV

GEOLOGICAL TARGET FORMATION: Alexander Depth 5300 feet
Depth of completed well, 5344 feet Rotary / Cable Tools _____
Water strata depth: Fresh, _____ feet; salt, 293 feet.
Coal seam depth: 436-439 Is coal being mined in the area? No
Work was commenced March 23, 19 79, and completed March 28, 19 79.

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		WEIGHT PER FOOT (LBS)	REMARKS
	Size	Material	Weight per ft	New	Used	For drilling		
Conductor	21 3/4"			X		42.80	42.80	
Fresh water	"					"	"	
Coal	8 5/8"		23.5#	X		1725.05	1725.05	400 Sx Stops
Intermediate	8 5/8"		"	X		"	"	"
Production	4 1/2"		10.5#	X		5302.50	5302.50	2144' Depth set
Tubing								
Liners								Perforations: Top Bottom

1,200 MCF + 200 PD

OPEN FLOW DATA
Producing formation Alexander Pay zone depth 5191-5222 feet
Gas: Initial open flow, see back Mcf/d Oil: Initial open flow, 0 bbl/d
Final open flow, *1200 Mcf/d Final open flow, *2 bbl/d
Time of open flow between initial and final tests, 10 days
Static rock pressure, *1785 psig (surface measurement) after 7 days shut in.

(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4512-25 feet
Gas: Initial open flow, see back Mcf/d Oil: Initial open flow, * 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, * psig (surface measurement) after * hours

MAR 10 1980

[08-78]

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

Frac Alexander 5191-5222 14 holes, 832bbls total fluid, 56,000# 20/40 sand

Frac Riley 4522-25, 12 holes, 527bbls total fluid, 35,000# sand

WELL LOG

FORMATION	Color	Hard or Soft	8 Top Feet	Bottom Feet	Remarks including indication of all gas, water, coal, oil and
Clay			0	5	
Shale			5	15	
Sand			15	55	
Shale			55	105	
Sand & Shale			105	165	
Sand			165	185	
Shale			185	195	
Sand & Shale			195	225	
Shale			225	240	
Sand & Shale			245	260	
Sand			260	280	
Sand & Shale			280	289	
Shale & RR			289	310	
Sand & Shale			310	319	1/2" stream water @ 293'
Shale			319	350	
Sand & Shale & RR			350	385	
Shale			385	412	
Sand			412	435	
Coal			436	439	
Sand & Shale			439	473	
Shale			473	495	
Sand & Shale			495	700	
Sand			700	745	
Sand & Shale & RR			745	1410	
Sand			1410	1435	
Shale			1435	1463	
Sand			1463	1480	
Sand & Shale			1480	1494	
Sand & Shale			1494	1752	
Shale			1752	1775	
Sand (Maxton)	white		1775	1780	
Shale	white		1780	1934	
Little Lime			1934	1966	
Shale			1966	1970	
Big Lime			1970	2074	
Injun			2053	2108	
Sand & Shale			2108	2280	
Sand	white		2280	2280	4/10 w 1/2" FM=8 mcf/d

continued on next sheet (attached)

(Also see separate report to complete an analysis)

Chase Petroleum

Well Operator

By

Alton Skinner

Its

Owner

NOTE: Regulation 8.02(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."

017-2341

Formation	Color	top feet	Bottom feet	Remarks
Sand	light brown	2290	2300	
Sand & Shale		2300	2340	
Sand	white	2340	2400	
Sand & Shale		2400	4390	@ 2621' 1/10 w 1/2" FM=2mcf/d
Sand	light brown	4390	4400	@ 3009' No Show
Sand	brown	4400	4410	@ 3168' No Show
Sand & Shale		4410	4470	@ 3681' No Show
Sand	brown	4470	4490	@ 3744' No Show
Sand & Shale		4490	4500	@ 4114' No Show
Sand	brown	4500	4510	@ 4736' No Show
Sand & Shale		4510	4570	@ 4862' 2/10 w 1/2" FM=3mcf/d
Sand	brown	4570	4580	@ 4925' 4/10 w 1/2" FM=8mcf/d
Sand & Shale		4580	4630	@ 5344' 6/10 w 1/2" FM=10 mcf/d
Sand	brown	4630	4650	
Sand & Shale		4650	4680	
Sand	light brown	4680	4700	
Sand & Shale		4700	4750	
Sand	light brown	4750	4760	
Sand & Shale		4760	4800	
Sand	brown	4800	4830	
Sand (Benson)	brown	4830	4850	
Shale & Sand		4850	4870	
Sand	brown	4870	4880	
Shale & Sand		4880	4900	
Sand	brown	4900	4910	
Shale		4910	5160	
Sand (Alexander)	brown	5160	5230	
Shale		5230	5344	

RECEIVED

FEB 28 1980

OIL & GAS DIVISION
DEPT. OF MINES

MAR 10 1980

FEB 27 1996

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

21651

- 1) Well Permitting Operator: MERIDIAN EXPLORATION CORP. ⁴⁹² 31805 ① 526
 Office of Oil & Gas
- 2) Operator's Well Number: (1514) CUSSIE LEGGETT #1 3) Elevation: 906
- 3) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___
 Deep ___ / shallow ___
- 4) Proposed Target Formation(s): Riley^{43'} and Balltown
- 5) Proposed Total Depth: 5344⁵²⁰⁰ feet
- 6) Approximate fresh water strata depths: N/A
- 7) Approximate salt water depths: 293
- 8) Approximate coal seam depths: 436
- 9) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 10) Proposed Well Work: Set plug. Perforate Riley @ 4200', perforate Balltown @ 3800' Frac Riley + Balltown. Drill plug

Issued 03/14/96
 Expires 03/14/98

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			REMARKS
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"			43	43	
Fresh Water						
Coal	8 5/8"		23	1725	1725	400 SKS. CTS
Intermediate						TOP at 2144'
Production	4 1/2"		10.5	5302	5302	2144'
Tubing						
Liners						

Complete with Alexandria

from well records

PACKERS : Kind N/A
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

RECEIVED
WV Division of
Environmental Protection

Page 1 of _____
Form WW2-A
(09/87)
Permit Copy

FEB 27 1996

- 1) Date: 2-22-96
- 2) Operator's well number
(1514) GUSSIE LEGGETT #1
- 3) API Well No: 47 - 017 - 2341
State - County - Permit

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name COLIN PRIMM
 - Address ROUTE 1
WEST UNION, WV 26456
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 6) Inspector MIKE UNDERWOOD
- Address ROUTE 2 BOX 135
SALEM, WV 26426
- Telephone (304)- 782 1043

- 5) (a) Coal Operator:
 - Name _____
 - Address _____
- (b) Coal Owner(s) with Declaration
 - Name GUSSIE LEGGETT
 - Address OXFORD WV
WEST UNION, WV 26456
 - Name _____
 - Address _____
- (c) Coal Lessee with Declaration
 - Name _____
 - Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

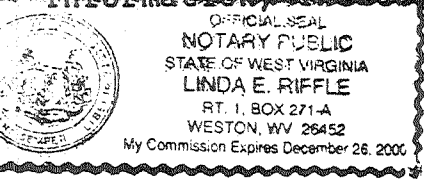
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator MERIDIAN EXPLORATION CORP.

By: John Guide JOHN GUIDE - Chief

Its: PENN CENTER WEST TWO, SUITE 325 Eng.

Address PITTSBURGH, PA 15276

(412) 494 0604

Telephone _____

Subscribed and sworn before me this 8th day of February, 1996

Linda E. Riffle Notary Public
My commission expires December 26, 2000



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 28, 1978

Surface Owner Olin Prim
Address Oxford, WV
Mineral Owner Gussie Leggett
Address Oxford, WV
Coal Owner Gussie Leggett
Address Oxford, WV
Coal Operator None
Address NA

Company Chase Petroleum
Address P.O. Box 297, Glenville, WV
Farm Olin Prim Acres 78
Location (waters) Cabin Run
Well No. 1 Elevation 906'
District Central County Doddridge
Quadrangle Oxford 7 1/2'

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 9-25-79.

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS Clarksburg, W. Va.
PHONE 622-3871

Robert A. Todd
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 April 5 1978 by Gussie Leggett made to Alton Skinner and recorded on the 3rd day of July 1978, in Doddridge County, Book 104 Page 277
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.

Very truly yours,
(Sign Name) [Signature]
Well Operator

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 P.O. Box 297
of Street
Well Operator Glenville
 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.

BLANKET BOND

47-017-2341 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 [Signature]

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 _____ NAME Alton Skinner
 ADDRESS _____ ADDRESS P.O. Box 297, Glenville, WV
 TELEPHONE _____ TELEPHONE 304-462-8916
 ESTIMATED DEPTH OF COMPLETED WELL: 5300' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson C
 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	30	30	CTS
13 - 10			
9 - 5/8			
8 - 5/8	1720	1720	CTS
7			
5 1/2			
4 1/2	5200'	5200'	2000'
3			Perf. Top 2400
2			Perf. Bottom 2420
Liners			Perf. Top 5100
			Perf. Bottom 5110

APPROXIMATE FRESH WATER DEPTHS: 30 FEET SALT WATER 600 FEET
 APPROXIMATE COAL DEPTHS None reported
 IS COAL BEING MINED IN THE AREA? 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