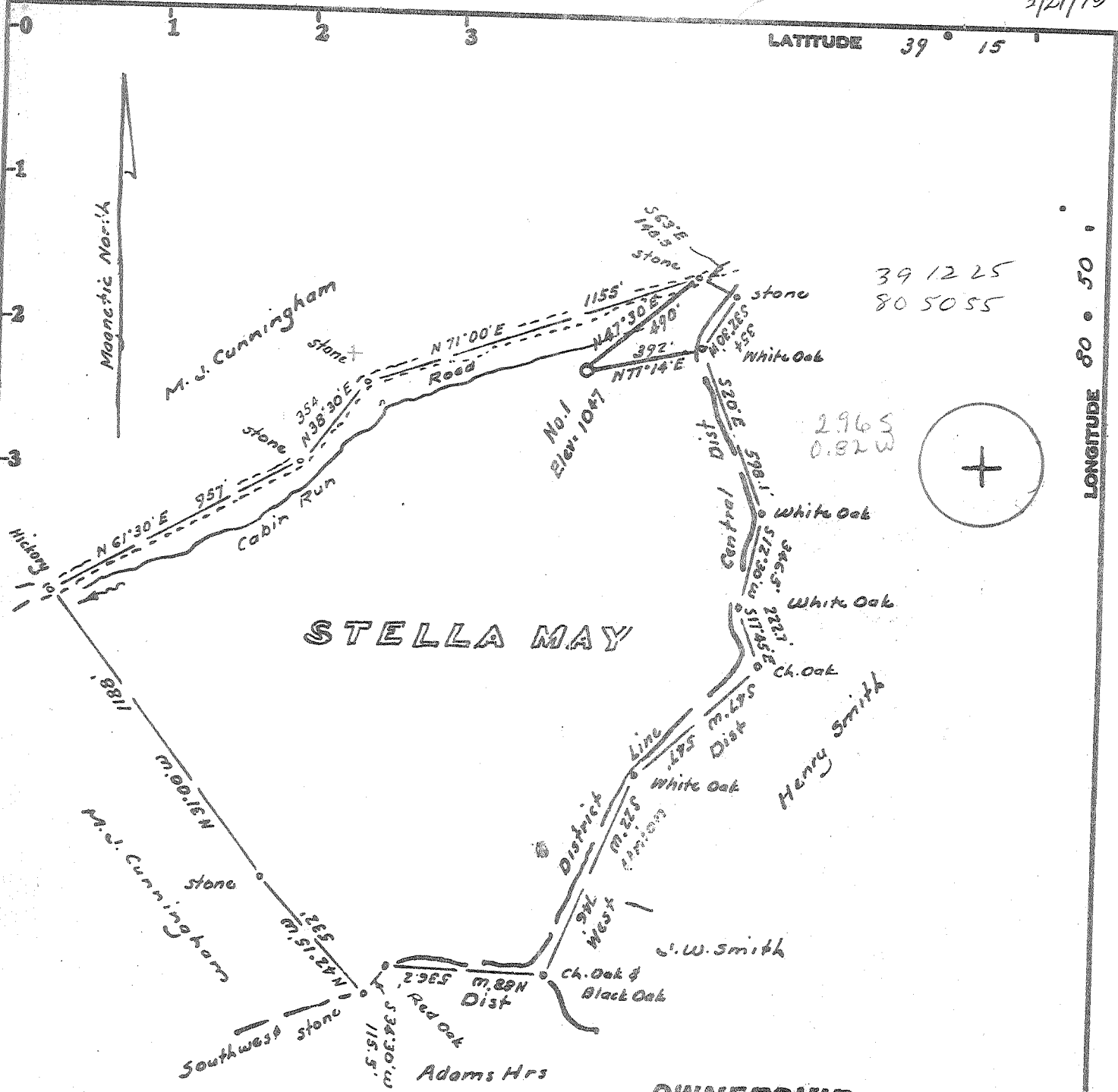
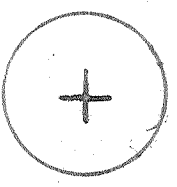


3/27/79 *FE*



39 12 25
80 50 55

2965
0.82 W



LONGITUDE 80 ° 50 '

STELLA MAY

LEGEND

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

OWNERSHIP

No Coal
Surface: - Glenn Cunningham
Parsons, W.Va.

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev at top of hill on District Line.

3000' South = 1960'

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.

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

Signed: *[Signature]*
Squares: N S E W

Company CHASE PETROLEUM CORP.
 Address P.O. Box 297, Glenville, W.Va.
 Farm Stella May
 Tract _____ Acres 83 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1047 NC
 Quadrangle Oxford 7 1/2, Holbrook 15'
 County Doddridge District Central
 Engineer [Signature]
 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

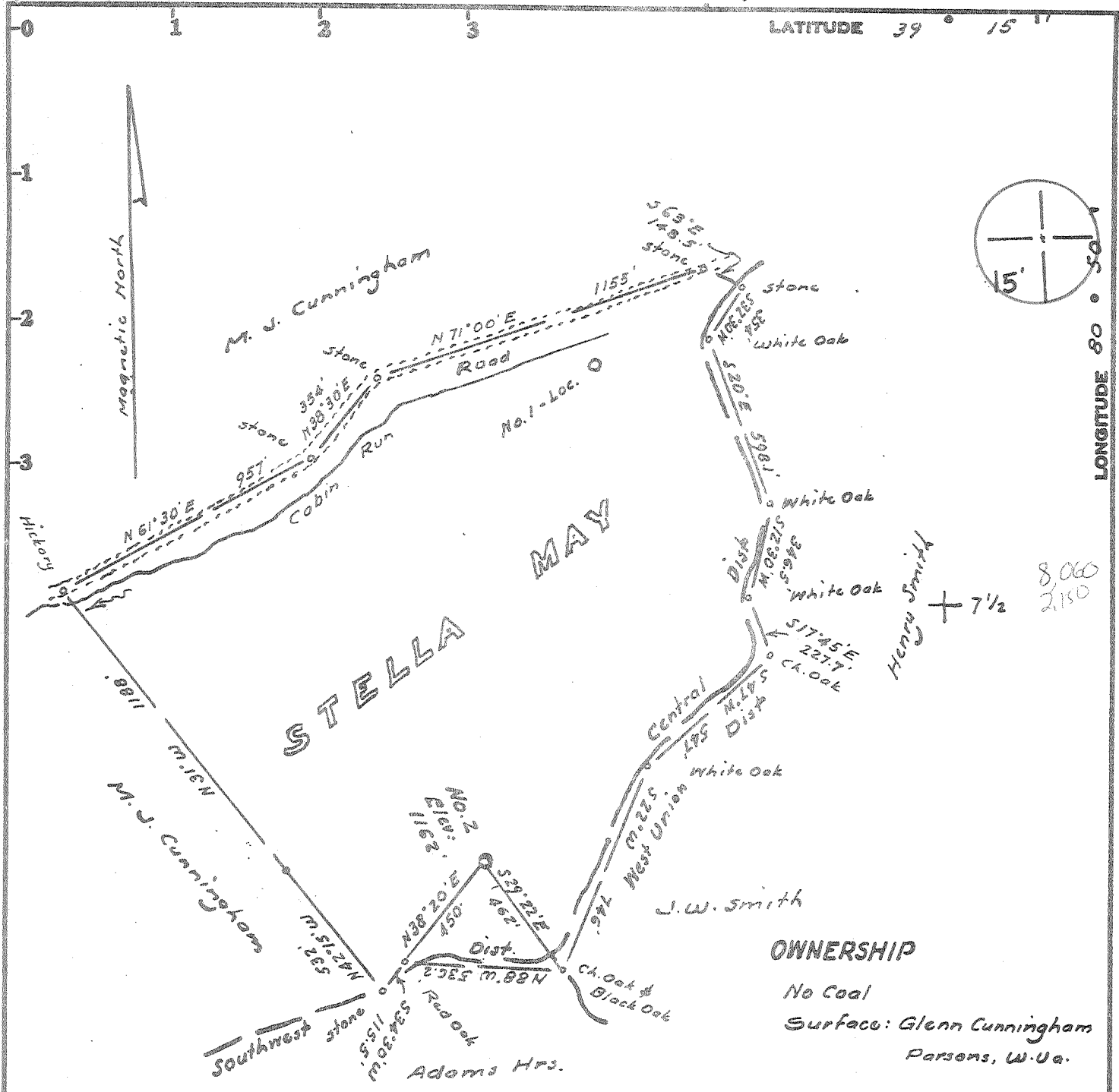
FILE NO. 47-017-2342-REV

CORRECTED PLAT & WELL NO.

+ 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.

5300 BENSON
h-f Straight Fork-Bluestone Creek (33) APR 10 1979



LEGEND

- Plotted from Oced Calls
- Surveyed Lines
- Roads
- - - District Lines
- Well Location

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev. on road at top of hill on

District Line = 1060'

- 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: W. S. Benson
 Squares: N S E W

Map No.

Company CHASE PETROLEUM
 Address P.O. Box 297, Glenville, West Va.
 Farm Stella May, Glenn C. Cunningham
 Tract _____ Acres 83 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 1162 NC
 Quadrangle Oxford 7 1/2, HOLBROOK 15'
 County Doddridge District Central
 Engineer W. S. Benson
 Engineer's Registration No. 1227 LLS200
 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. 47-017-2342

+ 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.

017-2342

FORMATION	Color	Top Feet	Bottom Feet	Remarks
Sand & Shale (Balltown)		3680	3900	@ 3835 36/10 w 1"FM=45mcf/d
Shale & Sand		3900	4060	
Sand (Bradford)		4060	4120	
Shale		4120	4190	
Sand & Shale		4190	4310	
Shale & Sand		4310	4480	
Sand (Riley)		4480	4500	
Shale & Sand		4500	4770	
Sand & Shale (Benson)		4770	4850	
Shale		4850	4900	@ 4860 54/10 w; "FM=55mcf/d
Shale & Sand		4900	5100	@ 4985 60/10 w1"FM=58mcf/d
Sand		5100	5110	
Shale		5110	5150	
Sand (Alexander)		5150	5230	
Shale & Sand		5230	5330	@ 5270 65/10 w1"FM=

[Handwritten signature]

FEB 28 1980

OIL & GAS DIVISION
DEPT. OF MINES

MAR 10 1980

FORM IV-35
(Reverse)

[08-78]

WELL OPERATOR'S REPORT
OF

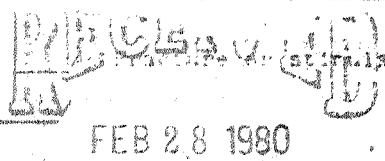
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1020 Watershed: Cabin Run
District: Central County: Doddridge Quadrangle: Oxford 7 1/2

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

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify)



PERMIT ISSUED ON April 25, 1979 OIL & GAS INSPECTOR P.W. GARRETT

(IF APPLICABLE: PLUGGING OF DRY HOLE ON 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, 5320 feet Rotary X / Cable Tools

Water strata depth: Fresh, feet; salt, none feet.

Coal seam depths: 360-365 Is coal being mined in the area?

Work was commenced April 26, 1979, and completed May 1, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-OR SACKS (Cubic Feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11 3/4			X		29	29	None
Fresh water								
Coal	8 5/8		23.5#	X		1689.65	1689.65	C.T.S. Sizes
Intermediate								
Production	4 1/2		10.5	X		5305	5305	2300' Depth set
Tubing								
Liners								Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5182-5224 feet
Gas: Initial open flow, see back Mcf/d Oil: Initial open flow, 0 bbl/d
Final open flow, *2,400 Mcf/d Final open flow, *16 bbl/d
Time of open flow between initial and final tests, 10 days
Static rock pressure, *1940 psig (surface measurement) after *7 days shut in

[If applicable due to multiple completion--]

Second producing formation Riley Pay zone depth 4481-4500 feet
Gas: Initial open flow, * 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, * psig (surface measurement) after hours shut in

MAR 10 1980

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ET C.

Alexander 5182-5224, 14 holes; frac with 899 bbls fluid & 60,000# 20/40 sand

Riley 4481-4500, 12 holes; frac with 533 bbls fluid + 10,000# 80/100 sand & 15,000# 20/40 sand

Balltown 3729-3753; 3824-3873, 12 holes; frac w 677 bbls fluid - 39,000# 20/40 sand

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks including indication of all frac and sand water, gal, oil and
Sand			0	10	
Shale			10	20	
Sand			20	40	
Shale			40	50	
Sand			50	190	
Sand & Shale			550	610	
Sand			610	710	
Sand & Shale			710	890	
Sand			900	950	
Sand & Shale			950	1100	
Sand			1100	1200	
Sand & Shale			1200	1300	
Sand			1300	1350	
Sand & Shale			1350	1420	
Sand			1420	1600	
Shale			1600	1630	
Sand			1630	1700	
Red Rock			1700	1735	
Sand (Maxton)			1735	1755	
Lime & Red Rock			1755	1835	
Shale			1835	1875	
Little Lime			1875	1900	
Shale			1900	1920	
Big Lime			1920	1990	
Injun			1990	2060	
Sand & Shale			2060	2230	
Sand (Weir)			2230	2350	
Sand & Shale			2350	2400	
Shale			2400	2426	
Sand (Berea)			2426	2430	
Sand & Shale			2430	2630	
Sand (Gordon)			2630	2665	
Sand & Shale			2665	3270	
Sand (Warren)			3270	3355	
Shale			3355	3370	
Sand & Shale			3370	3650	
Shale			3650	3680	

(Attach separate sheets if complete as necessary)

Chase Petroleum

Well Operator

By

Owner

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."



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 Glen C Cunningham
Address Oxford, WV
Mineral Owner Stella Cox May et al
Address Oxford, WV
Coal Owner None
Address NA
Coal Operator NA
Address _____

Company Chase Petroleum
Address P.O. Box 297, Glenville, WV
Farm Glen C. Cunningham Acres 83
Location (waters) Cabin Run
Well No. 1 Elevation 1162
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

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 19 78 by Stella May made to Alton Skinner and recorded on the 3rd day of July 19 78, in Doddridge County, Book 104 Page 275

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

Address
of
Well Operator

Very truly yours,

(Sign Name) _____
Well Operator

P.O. BOX 297, Glenville, WV
Street

City or Town

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

47-017-2342 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 agent

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	1680'	1680'	CTS
7			
5 1/2			
4 1/2	5200'	5200'	2000'
3			Perf. Top 2400'
2			Perf. Bottom 2420'
Liners			Perf. Top 5140'
			Perf. Bottom 5145'

APPROXIMATE FRESH WATER DEPTHS 30' FEET _____ SALT WATER 1200' FEET _____
 APPROXIMATE COAL DEPTHS None reported
 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