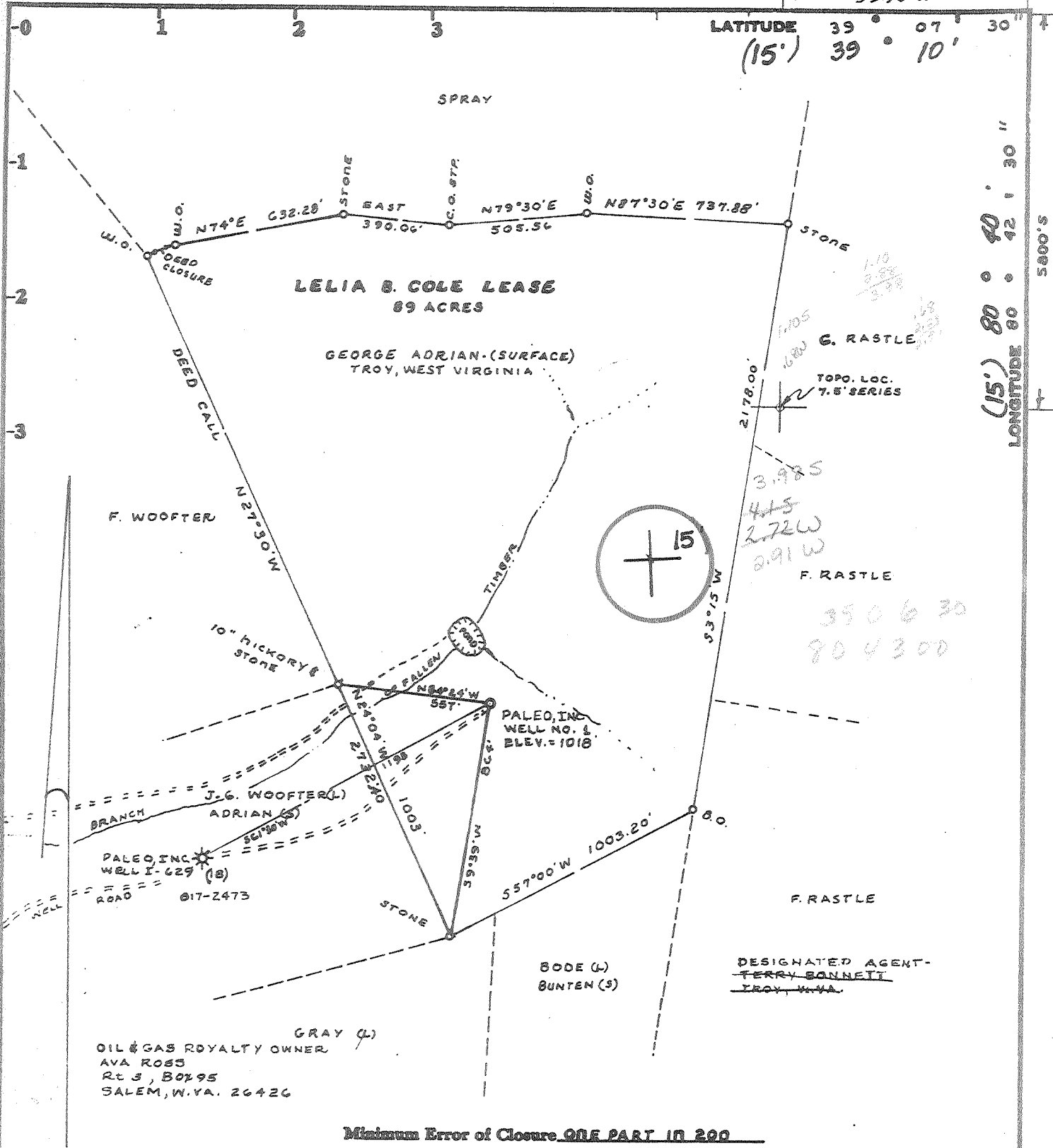


9/2/75



Minimum Error of Closure ONE PART IN 200

Source of Elevation U.S.G.S. B.M. AT POINT PLEASANT CHURCH 4

BY OLD SCHOOLHOUSE ELEVATION = 1030'

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..... GAS-DRILL-SHALLOW
GANTZ-T.F.
EST. DEPTH = 2600'

Drill Deeper.....

Abandonment.....

Signed: Mark C. Echard

Squares: N S E W

Company PALEO, INC.
SUITE 203-MAY EX-BLDG 3082 N.W. EXPRESSWAY
Address OKLAHOMA CITY, OKLAHOMA 73112

Farm LELIA B. COLE LEASE

Tract _____ Acres 69 Lease No. _____

Well (Farm) No. one Serial No. _____

Elevation (Spirit Level) 1018' WC

Quadrangle VADIS 7.5' 15'

County RODDRIDGE District COVE

Surveyor MARK C. ECHARD

Surveyor's Registration No. 490

File No. _____ Drawing No. _____

Date DECEMBER 14, 1978 Scale 1" = 500'

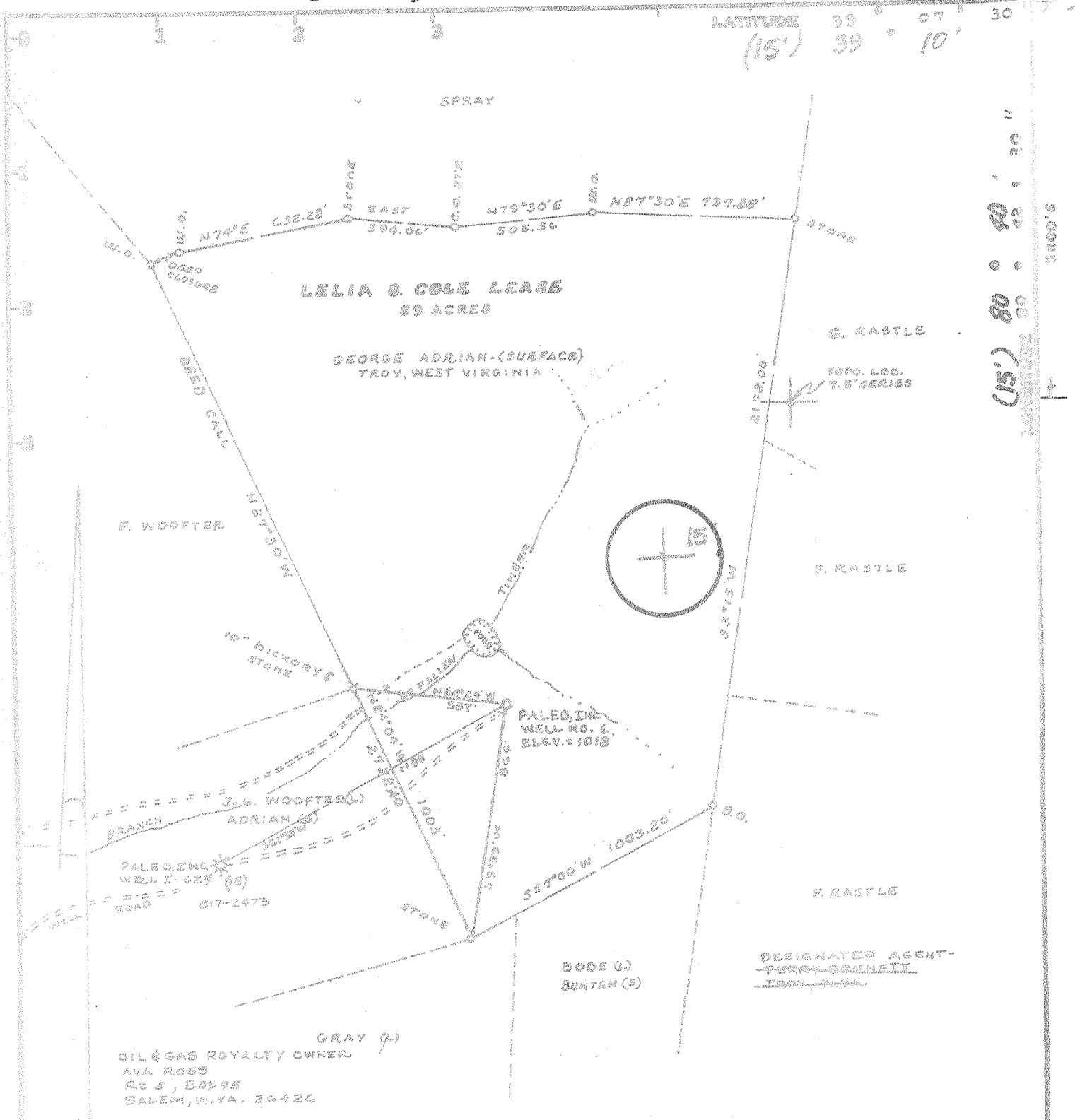
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. 47-017-2490
CORRECTED PERMIT 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.

OCT 22 1979



OIL & GAS ROYALTY OWNER,
AVA ROSS
Rt 6, Box 95
SALEM, W. VA. 26426

Minimum Error of Closure 0.05 PART IN 500

Source of Elevation 1/2 S.S. R.M. AT POINT PLEASANT CHURCH

BY OLD SCHOOL HOUSE ELEVATION = 1018'

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 GAS-DRILL-SHALLOW
Drill Deeper GANTZ-V.F.
Abandonment EST. DEPTH = 2000'

Signed: Mark C. Richard
Squares: N S E W

Company PALEO, INC.
Address OKLAHOMA CITY, OKLAHOMA 73112
Farm LELIA B. COLE LEASE
Tract _____ Acres 89 Lease No. _____
Well (Farm) No. 502 Serial No. _____
Elevation (Spirit Level) 1018'
Quadrangle VADIS 7.5' 15' WC
County DODDRIDGE District COVE
Surveyor MARK C. RICHARD
Surveyor's Registration No. 490
File No. _____ Drawing No. _____
Date DECEMBER 14, 1978 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-017-2486
2490

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

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

OCT 9 1979

[08-78]

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

Fractured October 2, 1979

Big Injun - 20,000 lf 20/40 sand
540 bbls water
injection rate - 24 BPM at 1800 lb.
2300 lb. breakdown

Perforations - 2109 - 2120, 6 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all fresh and salt water, coal, oil and gas
Surface			0	81	
Sand			81	84	Water
Shale			84	125	
Red Rock			125	138	
Slate			138	142	
Shale			142	402	
Sand			402	448	
Shale			448	521	
Red Rock			521	584	
Sand			584	603	
Shale			603	660	
Red Rock			660	681	
Shale			681	724	
Red Rock			724	740	
Sand			740	751	
Shale			751	1020	
Sand			1020	1041	
Shale			1041	1231	
Sand			1231	1249	
Slate			1249	1280	
Shale			1280	1950	
Lime			1950	1970	
Sand			1970	2006	
Lime			2006	2100	
Sand <i>BI</i>			2100	2130	Show of gas
Lime			2130	2160	
Sandy Shale			2160	2320	
Shale			2320	2416	
Sand <i>BEREA</i>			2416	2430	
Shale			2430	2571	
Total Depth			2571		

(Attach separate sheets to complete as necessary)

Paleo, Inc.
Well Operator

By Mark R. Wood
Its agent

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."

COPY

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

Date: September 18, 1979

Operator's Well No. Cole #1
API Well No. 47 - 017 - 2490
State County Permit

WELL TYPE: Oil ___ / Gas X ___ /
(If "Gas", Production X ___ / Underground storage ___ / Deep ___ / Shallow X ___ /)

LOCATION: Elevation: 1018' Watershed: Fallen Timber
District: Cove County: Doddridge Quadrangle: Vadis

WELL OPERATOR Paleo, Inc.
Address: 3022 N. W. Expressway
Oklahoma City, OK 73112

DESIGNATED AGENT Frank Johnson
Address: Glenville, WV

OIL & GAS ROYALTY OWNER Avanelle Ross
Address: Route 3, Box 95
Salem, WV 26426

COAL OPERATOR None
Address:

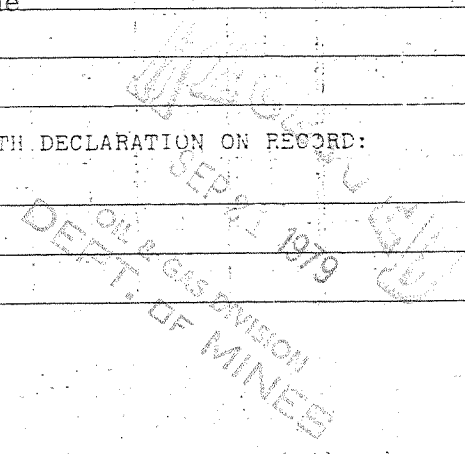
Acres: 89
SURFACE OWNER George Adrian
Address: Troy, WV
Acres: 89

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name: None
Address:
Name: None
Address:

FIELD SALE (IF MADE) TO:
Name: N/A
Address:

COAL LESSEE WITH DECLARATION ON RECORD:
Name: None
Address:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name: Paul Garrett
Address: Clarksburg, WV 26301
622-3871



The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X ___ / other contract ___ / dated August 28, 1979, to the undersigned well operator from M. Avanelle Ross and James Ross
[If said deed, lease, or other contract has been recorded:]

Recorded on August 28, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 110 at page 385. A permit is requested as follows:

PROPOSED WORK: Drill X ___ / 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 the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit 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
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Paleo, Inc. Well Operator

By Frank Johnson
Its Agent

Y903

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.
Address Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Gantz

Estimated depth of completed well, 2600 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 100 feet; salt, feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes / No X /

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		
Conductor								Kinds
Fresh water	8 5/8					275	275	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						2600	100 sks
Tubing								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 § 22-4-2, (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 be required for fracturing or stimulating a well. THIS PERMIT MUST BE POSTED AT THE WELL SITE if 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.

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 5-21-80.

Robert H. [Signature]

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 regulations.

Date: , 19

By
Its