

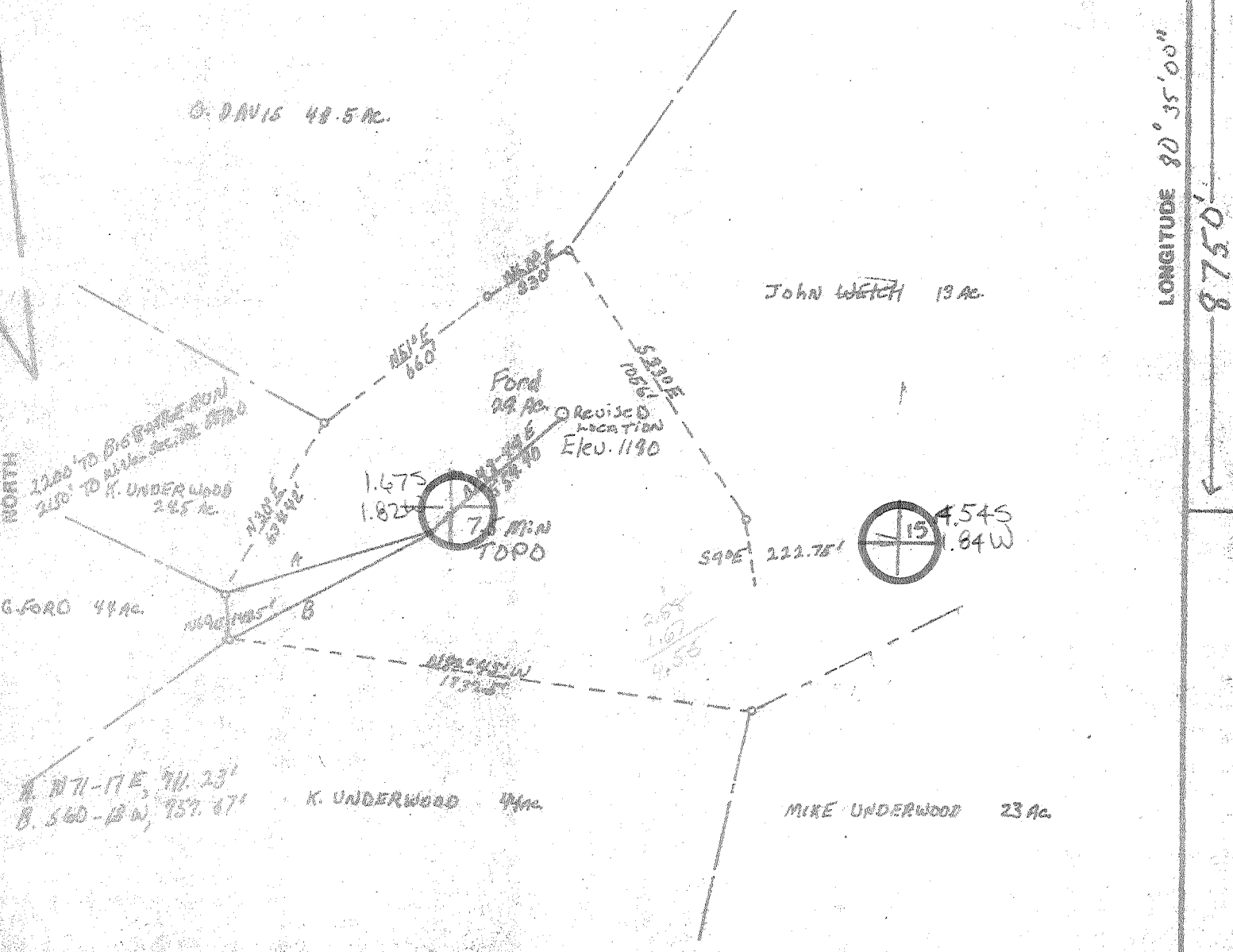
5-43

Card CSD

9550'

LATITUDE 39° 22' 30"
(15') 39° 25'

LONGITUDE 80° 35' 00"



FILE NO. _____
 DRAWING NO. 2
 SCALE 2" = 500'
 MINIMUM DEGREE OF ACCURACY 1" IN 200'
 PROVEN SOURCE OF ELEVATION 800' B.M. Possum Run

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) [Signature]
 R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



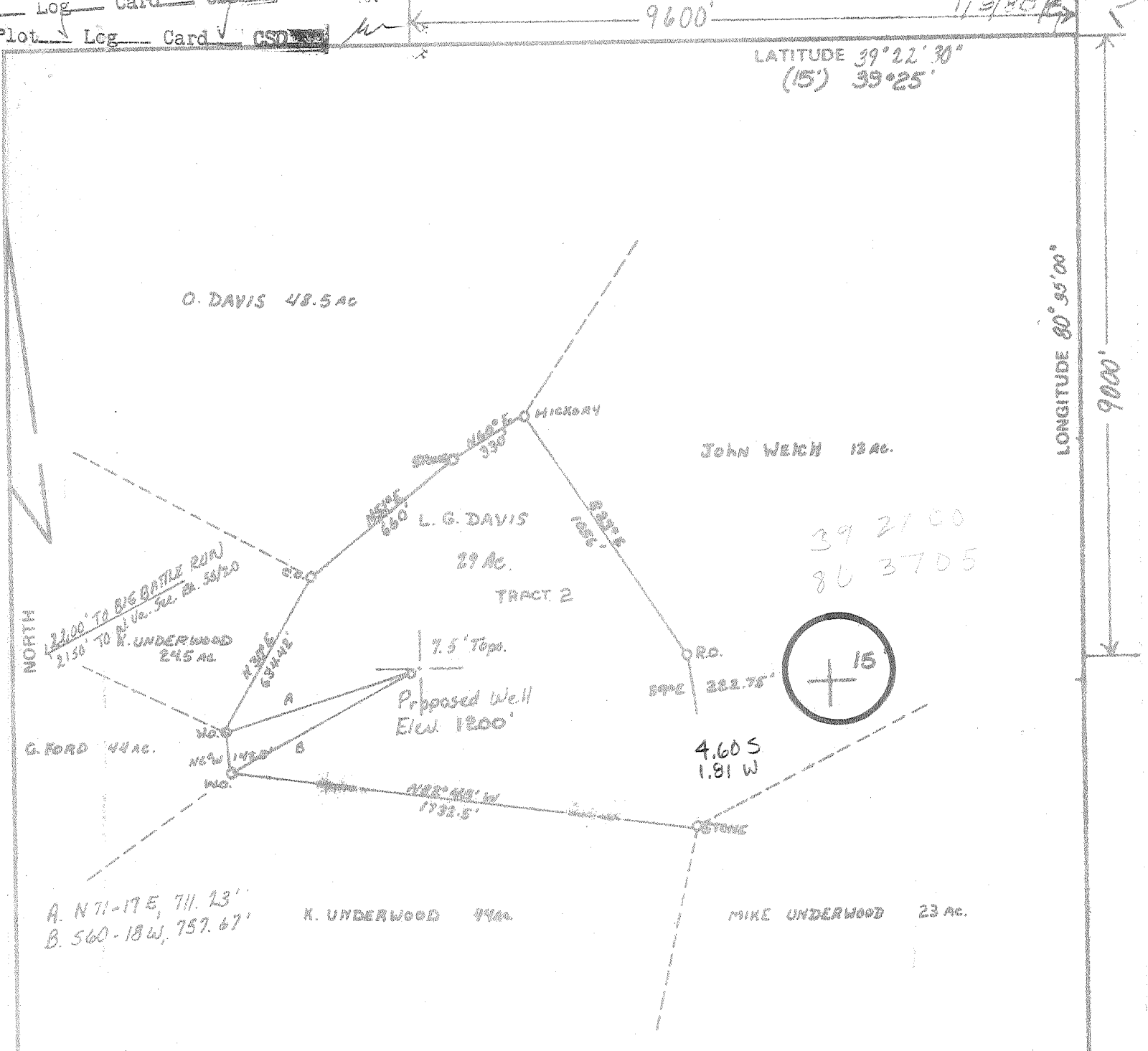
DATE MAY 3, 19 90
 OPERATOR'S WELL NO. 2
 API WELL NO. _____
47 - 017 - 2578 REV
 STATE COUNTY PERMIT

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 1190 WATER SHED Big Bottle Run
 DISTRICT McClellan COUNTY Doddridge
 QUADRANGLE Salem CENTER POINT 15' C
 SURFACE OWNER David Wayne Ford ACREAGE 29.5
 OIL & GAS ROYALTY OWNER Garland A. Ford LEASE ACREAGE 29.5
 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 Benson ESTIMATED DEPTH 5000'
 WELL OPERATOR Atroleum Development DESIGNATED AGENT Atroleum Development Corp.
 ADDRESS 103 E. MAIN ST. BRIDGEPORT W.VA. 26330 ADDRESS 103 E. MAIN ST. BRIDGEPORT W.VA. 26330

JUN 18 1990



FILE NO. _____
 DRAWING NO. 2
 SCALE 2" = 500'
 MINIMUM DEGREE OF ACCURACY 1" in 200'
 PROVEN SOURCE OF ELEVATION B.M. 889' Possum Run

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) Wayne D. Parker
 R.P.E. _____ L.I.S. 624

PLACE SEAL HERE

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



DATE December 28, 1979
 OPERATOR'S WELL NO. 2
 API WELL NO. _____
47 - 017 - 2578
 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 1200' WATER SHED Big Battle Run
 DISTRICT MacClellan COUNTY Doddridge
 QUADRANGLE Salem, T₆, CENTERPOINT 15' C
 SURFACE OWNER LARRY G. DAVIS ACREAGE 29.5
 OIL & GAS ROYALTY OWNER Garland O. Ford LEASE ACREAGE 29.5
 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 BENSON ESTIMATED DEPTH 5000'
 WELL OPERATOR Petroleum Development DESIGNATED AGENT Petroleum Development Corp.
 ADDRESS 103 E. Main St. Bridgeport, W. Va. 26330 ADDRESS 103 E. Main St. Bridgeport, W. Va. 26330

G-G SMITHSON FLINT SEDALIA



Handwritten: JUN 27 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Salem
Permit No. Dodd-2578

Company <u>Petroleum Development Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (5ks.)
Address <u>103 East Main St., Bridgeport, WV 26330</u>				
Farm <u>Garland Eord Acres 29.5</u>	Size			
Location (waters) <u>Big Battle Run</u>	20-16			
Well No. <u>#2 Elev 1200'</u>	Cond.			
District <u>McClellan County Doddridge</u>	20-16 11 3/4	34'	34'	surface
The surface of tract is owned in fee by <u>Larry G. Davis</u>	9 5/8			
Address <u>Rt. 2, Salem, WV 26426</u>	8 5/8	1662'	1637'	365 sks
Mineral rights are owned by <u>Garland O. Ford, et al</u>	7			
Address <u>Riverton, WV 26814</u>	5 1/2			
Drilling Commenced <u>5/5/80</u>	4 1/2	5284'	5270'	575 sks
Drilling Completed <u>5/10/80</u>	3			
Initial open flow _____ cu. ft. _____ bbls.	2			
Final production <u>622 m cu. ft. per day</u> _____ bbls.	Liners Used			
Well open <u>48 hrs. before test 1050#p.</u>				

Well treatment details: Attach copy of cementing record.

Benson	535 bbl	10,000# 80/100	50,000# 20/40	500 gal. acid	5175-5181
Warren	500 bbl	10,000# 80/100	50,000# 20/40	500 gal. acid	3542-3568

Coal was encountered at 785' Feet. _____ Inches
Fresh water damp @ 90' Feet. _____ Salt Water 670, 850 Feet
Producing Sand Benson, Warren Depth 5175', 3542'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
K.B. - G.L.			0	10		
red rock			10	20		
sand			20	95		damp @ 90'
sand, shale			95	400		
rod rock			400	470		
sand, shale, R.R.			470	785		damp @ 670'
coal			785	790		
sand, shale, R.R.			790	1175		damp @ 850'
sand			1175	1390		
sand, shale			1390	1820		
sand			1820	2053		
big lime			- 2053	2124		
big injun			2124	2211		gas check @ 2194' no show
sand, shale			2211	2818		gas check @ 2700' no show
gordon/stray			2818	2926		
sand, shale			2926	3534		
warren			3534	3571		
sand, shale			3571	5167		gas check @ 3950' no show
benson			- 5167	5180		
sand, shale			5180	5284 TD		gas check @ TD no show

JUL 28 1980

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Two
API Well No. 47-017-2578
State County Permit

WELL TYPE: Oil / Gas /
If "Gas", Production / Underground storage / Deep / Shallow /
LOCATION: Elevation: 1200' Watershed: Big Battle Run
District: McClellan County: Doddridge Quadrangle: Salem

COAL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Petroleum Development Corp.
Address P.O. Box 26 Address P.O. Box 26
Bridgeport, WV 26330 Bridgeport, WV 26330

COAL OWNER Garland O. Ford, et.al.
Address Riverton, WV 26814

COAL OPERATOR _____
Address _____

COAL OWNER Larry G. Davis
Address Rt. 2,
Salem, WV 26426
Address 29.5

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address P.O. Box 1613
Morgantown, WV 26505

COAL OWNER MADE TO: _____
Address _____

COAL OWNER MADE TO: _____
Address _____

COAL OPERATOR TO BE NOTIFIED
Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____
RECEIVED
JAN - 8 1980

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above
location under lease / lease / other contract / dated September 13, 1978, to the
landowner Clarence W. Mutschelknaus

[If a lease, or other contract has been recorded:]
dated November 3, 1978, in the office of the Clerk of the County Commission of Doddridge
County, West Virginia, in Lease Book 105 at page 338. A permit is requested as follows:

REDRILL DEEPER: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

--closed as shown on the work order on the reverse side hereof.

The undersigned coal operator, coal owner(s), and coal lessee are hereby notified that any
plans or specifications to be made or required to make by Code § 20-9-3 must be filed with the Department
of Mines, Oil and Gas Division upon the receipt of this Application by the Department.

The fee for this Permit Application and the enclosed plat and reclamation plan have been called
for and paid in full by hand to the above named coal operator, coal owner(s), and coal lessee
at the time of the delivery of this Permit Application to the Department of Mines at
Clarksburg, West Virginia.

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

PETROLEUM DEVELOPMENT CORPORATION
Well Operator

BLANKET BOND

By John E. Moore
John E. Moore

PROPOSED WORK ORDER

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

LINE CONTRACTOR (IF KNOWN) Unknown

Address _____

LOCAL TARGET FORMATION, Benson

Estimated depth of completed well, 5350 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 250 feet; salt, 1600 feet.

Approximate coal seam depths: 850, 1250 Is coal being mined in the area? Yes _____ / No X /

CLEANING PROGRAM

LINE NO.	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per Ft	New	Used	For drilling		
1	13 3/8"				X	40'	40'	Kinds
2	8 5/8"	K	20 & 23	X		2000'	2000'	Sizes
3	1 1/2"		10.5	X		5300'	5300'	Depths set
								Depositions:
								Top Bottom

The undersigned, Director of Mines, certifies that the original and four copies of the permit application, accompanied by (1) a plat in the form prescribed by the Code of West Virginia, Article 20, Chapter 22, or in like form prescribed by Regulation 12, or in like form prescribed by Regulation 12, (2) Form IV-3, "Exploration Plan", (3) Form IV-4, "Permit Application", and (4) Form IV-5, "Permit Application", are on file in the office of the Director of Mines, and that the same are available for inspection by the public.

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 9-18-80.

Robert R. [Signature]
Deputy Director - Oil & Gas Division

This permit is valid only for the purpose stated and shall be void if used for any other purpose. The permit holder shall be responsible for the safety of the work for which a permit is sought and for the construction thereof.

WARRANTY

The undersigned, Director of Mines, warrants that the permit holder has complied with all the provisions of the Code of West Virginia, Chapter 22, Article 20, and that the permit holder has provided for the safety of the work for which a permit is sought and for the construction thereof.