

FILE NO. _____
 DRAWING NO. 82-102-20
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. Sec 11 & FARM ROAD. EL. 963

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) William G. Roberts
 R.P.E. _____ L.L.S. 714

PLACE SEAL HERE

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



DATE November 11, 1982
 OPERATOR'S WELL NO. GRIFFITH # 2
 API WELL NO. 47-087-3716 Ren.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Revised Estimated Depth

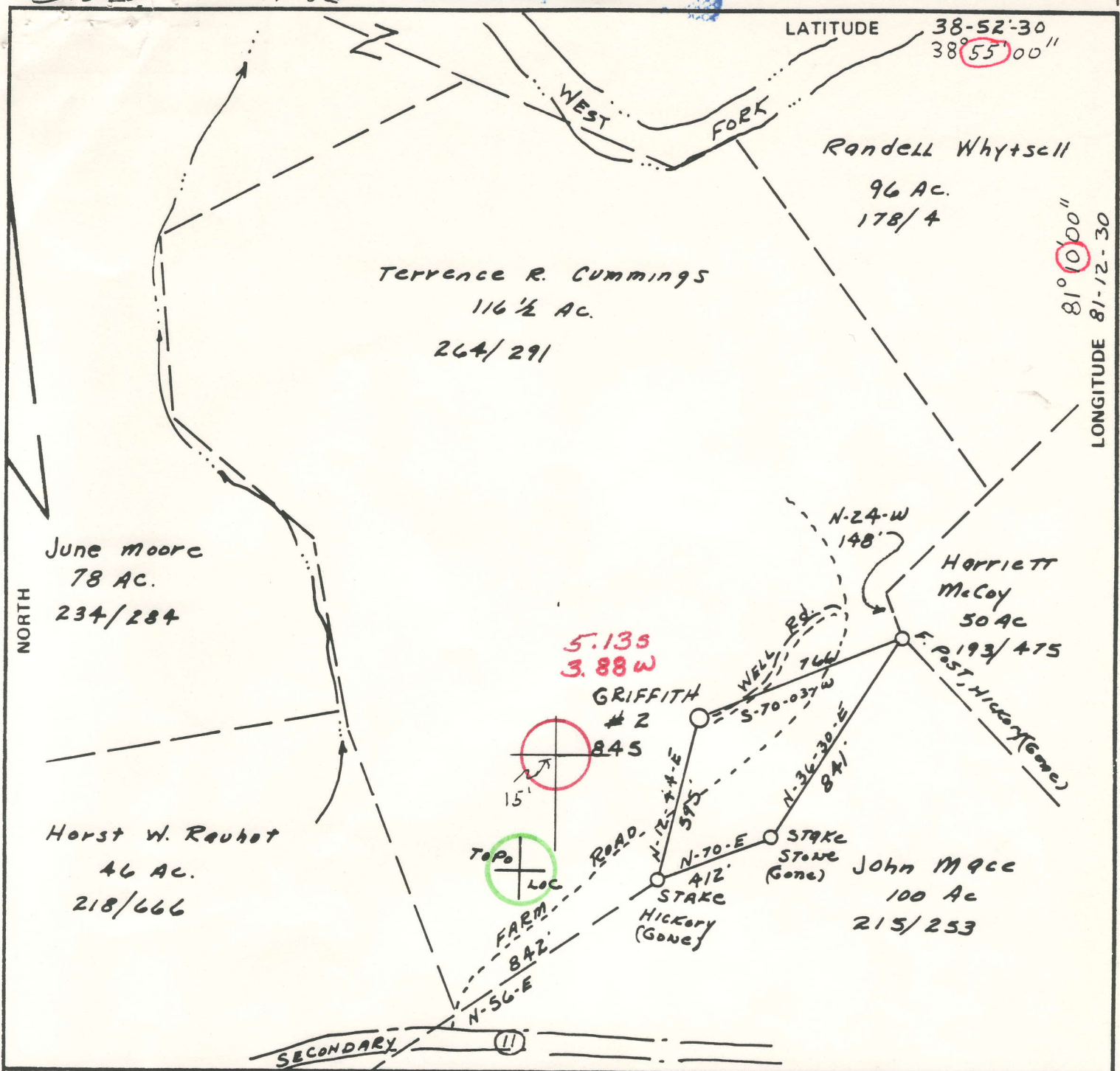
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 845 WATER SHED WEST FORK
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE ARNOLDSBURG 7.5' 415' WC
 SURFACE OWNER Terrence R. Cummings ACREAGE 116 1/2
 OIL & GAS ROYALTY OWNER RUBY GRIFFITH LEASE ACREAGE 116 1/2
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 Oriskany ESTIMATED DEPTH 6350'
 WELL OPERATOR The Central Pacific Group DESIGNATED AGENT Petroleum services, INC.
 ADDRESS 2115 Kern ST. Fresno, CALIF. 93721 ADDRESS P.O. BOX 4081 Parkersburg, W.V. 26101

NOV 28 1982

DEEP WELL 3-3 Triplett (165) DPD - Genesee

ROANE 3716 Ren.



FILE NO. _____
 DRAWING NO. 82-102-20
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. Sec 11 & FARM ROAD. EL. 963

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) William G. Roberts
 R.P.E. _____ L.L.S. 714

PLACE SEAL HERE

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



DATE November 11, 1982
 OPERATOR'S WELL NO. GRIFFITH # 2
 API WELL NO. 47-087-3716
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 845 WATER SHED WEST FORK
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE ARNOLDSBURG 7.5' 415' WC
 SURFACE OWNER Terrence R. Cummings ACREAGE 116 1/2
 OIL & GAS ROYALTY OWNER RUBY GRIFFITH LEASE ACREAGE 116 1/2
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 ESTIMATED DEPTH 5900'
 WELL OPERATOR The Central Pacific Group DESIGNATED AGENT Petroleum services, INC.
 ADDRESS 2115 Kern ST. ERSNO, CALIF. 93721 ADDRESS P.O. BOX 4081 Parkersburg, W.V. 26101

DEC 13 1982

RECEIVED

DEC 20 1983



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 12-19-83
Operator's
Well No. #2
Farm GRIFFITH
API No. 047 - 087 - 3716

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: 845 Watershed WEST FORK
District: SPENCER County ROANE Quadrangle ARNOLDSBURG 7.5

COMPANY THE CENTRAL PACIFIC GROUP, INC
ADDRESS 2222 WEST SHAW, SUITE 20, FRESNO, CA, 93711
DESIGNATED AGENT JOHN CUSHING
ADDRESS P.O. BOX 4081, PARKERSBURG, W. VA, 26104
SURFACE OWNER TERRANCE CUMMINGS
ADDRESS BOX 55, ARNOLDSBURG RD., SPENCER, W. VA
MINERAL RIGHTS OWNER RUBY GRIFFITH
ADDRESS RT 3, BOX 41, SPENCER, W. VA.
OIL AND GAS INSPECTOR FOR THIS WORK HOMER
DAUGHERTY ADDRESS BOX 3A, LOONEYVILLE, W. VA.
PERMIT ISSUED 12-2-82
DRILLING COMMENCED 11-26-83
DRILLING COMPLETED 12-4-83
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.			
11-3/4 18x10"	227	227	125 sks
9 5/8			
8 5/8	2104	2104	500 sks
7			
5 1/2			
4 1/2		5873	615 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth 5830 feet
Depth of completed well 5885 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 75 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 4054-5828 feet
Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 1.5 M Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1200 psig (surface measurement) after 4 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ 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

1500 MCF
FDP

(Continue on reverse side)

Flow copied in ch 12 to 7/2/85

Marcellus 5800-5828
Genesee 5722-5800

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 5722

1st-STAGE- 25holes- 5620-5828 foam frac 60,000# sand-1,000 mcf N2 - *sonyea - Mar.*
 2nd stage- 30 holes- 5065-5510 foam frac 60,000# sand-1,000 mcf N2 - *angola - Rhin.*
 3rd stage- 20 holes- 4531-4998 nitrogen frac 1,000 mcf N2 - *H - angola*
 4th stage- 30 holes- 4054-4404 nitrogen frac 1,000 mcf N2 - *Huron*

angola 5065-5163
Rhinest. 5163-5510

Huron 4531-~~4620~~
Java 4620-4817
angola 4817-4998

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
soil	bn	s	0	10	
ss	bn	h	10	62	
shale	bl	s	62	280	
ss	bn	s	280	435	
shale	bn	s	435	1696	
salt sand	bn	h	1696	1722	
shale	bl	s	1722	1852	
maxton	bn	h	1852	1864	
little lime w		h	1890	1901	
blue monday w		h	1931	1942	
big lime w		h	1942	2060	
big injun w		h	2060	2085	
sanbury shale bn		s	2444	2458	
gordon w		h	2686	2699	
sand w		h	2798	2804	
5th w		h	2898	2908	
chagrin bn		s	2980	3326	
huron bn		s	3326	3625	
speechley bn		s	3625	3668	
balltown bn		s	3830	3898	
benson bn		s	4136	4140	
alexander bn		s	4329	4400	
java bn		s	4620	4929	
angola bn		s	4929	4974	
morton bundle bn		s	4974	4998	
rhinestreet bn		s	5178	5451	
sonyea bn		s	5451	5620	
genesee bn		s	5620	5702	
mahantango bn		s	5702	5800	
marcellus bn		s	5800	5830	
onondaga lime bn		h	5830		
T.D.				5885	

Log TOPS (JS)
 Pocono - ?
 V. Dev. - 2460
 Huron - 3622
 Java - 4620
 angola - 4817
 Rhin. - 5163
 Sonyea - 5583
 Genesee - 5722
 Mar. - 5800
 Onond - 5832

ONOND. @ T.D. 55' Onond

165' - exploratory ftg

(Attach separate sheets as necessary)

THE CENTRAL PACIFIC GROUP, INC
 Well Operator
 By: John Cushing, AGENT
 Date: 12-19-83

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."



1) Date: OCTOBER 13, 19 83
 2) Operator's Well No. GRIFFITH # 2
 3) API Well No. 47 - 087 - 3716-Ren
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 845 Watershed: WEST FORK
 District: SPENCER County: ROANE Quadrangle: ARONLDSBURG 7.5
- 6) WELL OPERATOR THE CENTRAL PACIFIC GROUP, INC. 7) DESIGNATED AGENT JOHN CUSHING
 Address 2222 WEST SHAW SUITE 20 Address 3901 BRISCOE RD/P.O. BOX 4081
FRESNO, CA. 93711 PARKERSBURG, W. VA. 26104
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name RICHARD J. MORRIS HOMER DOUGHERTY Name THE COASTAL CORP.
 Address Box 372 Address PARKERSBURG, W. VA.
GRANTSVILLE, W. VA. 26147
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, DEVONIAN SHALE
- 12) Estimated depth of completed well, 5900 feet
 13) Approximate trata depths: Fresh, 192 feet; salt, 800 feet.
 14) Approximate coal seam depths: N/a Is coal being mined in the area? Yes

RECEIVED
 OCT 26 1983

OIL & GAS DIVISION
 DEPT. OF MINE

15) 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		Left in well	Kinds	Sizes
Conductor	11-3/4			X		220	220	cir to sur	Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8-5/8			X		2100	2100	cir to sur		
Production	4-1/2	sml	10.5	X		5900	5900	600 sks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-087-3716-Ren Date November 14, 19 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires November 14, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BIB</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>1.5</u>	Casing: <u>1.5</u>	Fee: <u>1292</u>
------------------	--	------------------	--------------------	------------------

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



1) Date: Nov. 22, 1982
 2) Operator's Well No. Griffith 42
 3) API Well No. 47 State 087 County 3716 Permit

DRILLING CONTRACTOR:

Coastal Corp.
Parkersburg, WV

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas X _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X _____)
- 5) LOCATION: Elevation: 845 Watershed: West Fork
 District: Spencer County: Raone Quadrangle: Arnoldsburg, 7.5
- 6) WELL OPERATOR Central Pacific Group 11) DESIGNATED AGENT John Cushing
 Address 2115 Kern St. Address Petroleum Services, Inc., Box 4001
Fresno, CA 93721 Parkersburg, WV 26104
- 7) OIL & GAS ROYALTY OWNER Ruby Griffith 12) COAL OPERATOR _____
 Address St. 3, Box 41 Address _____
Spencer, WV 25276
- 8) SURFACE OWNER Terrance H. Cummings 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Box 53, Arnoldsburg, Rd. Name _____
Spencer, WV 25276 Address _____
 Acreage 116.5 Name _____
- 9) FIELD SALE (IF MADE) TO: Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Richard J. Morris Name _____
 Address Box 372 Address _____
Huntsville, WV 26147
- 15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, _____
- 17) Estimated depth of completed well, _____ feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, sand _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

RECEIVED
NOV 23 1982
OIL & GAS DIVISION
DEPT. OF MINES

20) 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	Left in well			
Conductor	<u>11 3/4</u>					<u>220</u>	<u>220</u>	<u>Circ. to Surf</u>		Kinds
Fresh water										
Coal	<u>7 7/8</u>	<u>2-5/8</u>		<u>X</u>		<u>2,100</u>	<u>2,100</u>	<u>Circ. to Surf</u>		Sizes
Intermediate	<u>4-1/2</u>	<u>sgl</u>		<u>X</u>			<u>5,900</u>	<u>600 aka</u>		Depths set
Production										
Tubing										
Liners										Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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.

Notary: _____ Signed: _____
 My Commission Expires _____ Its: _____

OFFICE USE ONLY

Permit number 47-087-3716 DRILLING PERMIT Date December 2 1982

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires August 2, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: _____	Agent: _____	Plat: _____	Casing _____	Fee _____
-------------	--------------	-------------	--------------	-----------

Administrator, Office of Oil and Gas