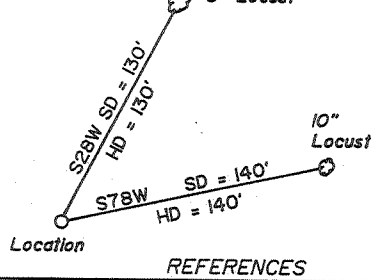


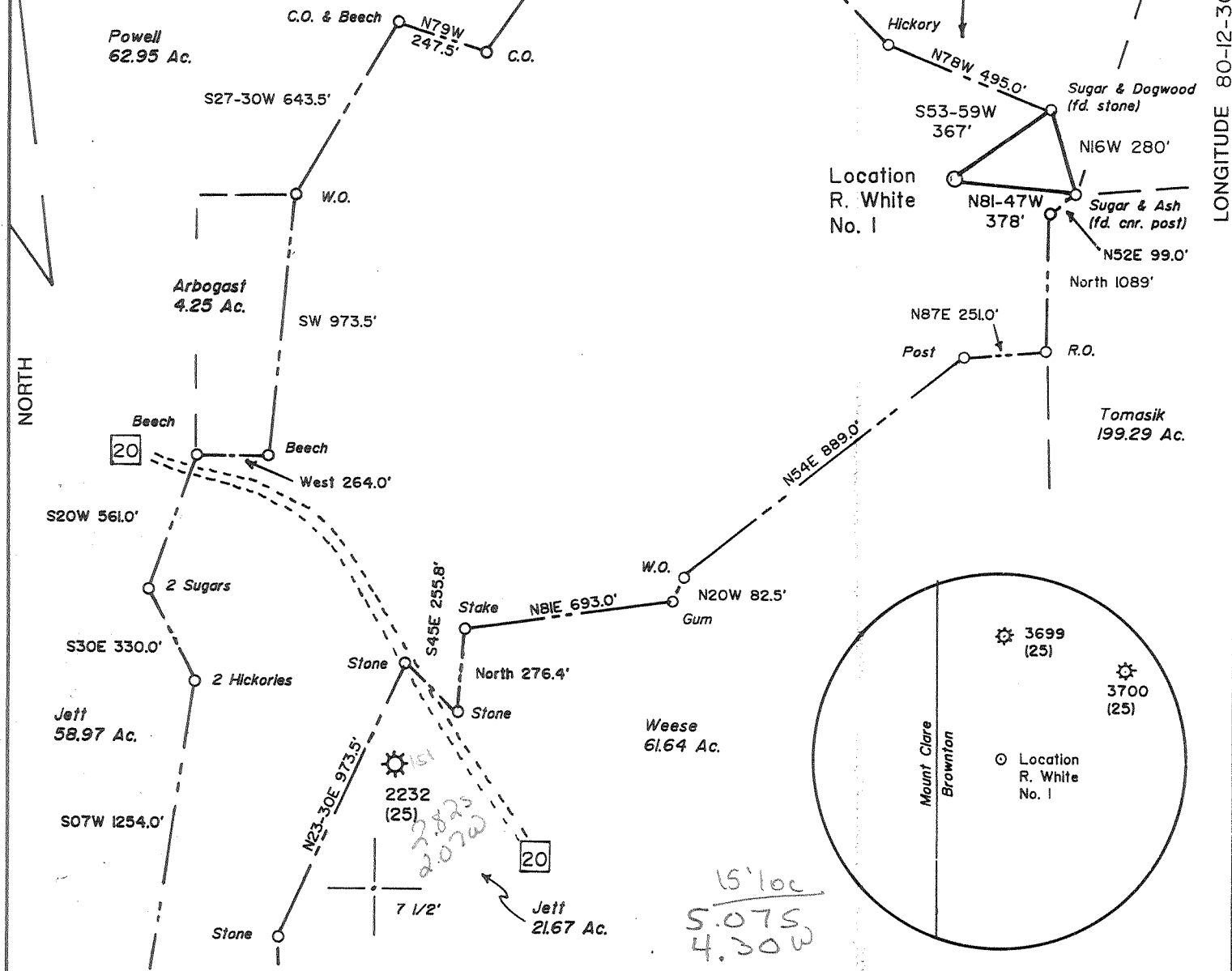
11000

LATITUDE 39-12-30 N

98 9-13-90



REFERENCES



LONGITUDE 80-12-30 W

NORTH

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM 4100' NE
of Location: Elevation 1020

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 ENERGY
 (SIGNED) David T. Jackson
 R.P.E. _____ L.L.S. 708

DAVID T. JACKSON
 INSURANCE AND SERVICE
 PLACE SEAL HERE

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



DATE August 22, 19 90
 OPERATOR'S WELL NO. R. White No. 1
 API WELL NO. _____
47 - 033 - 3757
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1292 WATER SHED Gnatty Creek of Elk Creek
 DISTRICT Elk S COUNTY Harrison
 QUADRANGLE Brownton 7 1/2' Phillipi NW
 SURFACE OWNER Ralph E. White et ux ACREAGE 122.17
 OIL & GAS ROYALTY OWNER Ralph E. White et ux LEASE ACREAGE 122.17
 LEASE NO. 433800
 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 Benson ESTIMATED DEPTH 5000
 WELL OPERATOR Petroleum Development Corporation DESIGNATED AGENT Eric R. Stearns
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

COUNTY NAME PERMIT

SEP 14 1990

FORM WW-6 068277

6-6 Elk Creek (Overfield) (155)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: WHITE, RALPH & VIRGINIA Operator Well No.: RALPH WHITE

LOCATION: Elevation: 1292.00 Quadrangle: BROWNTON

District: ELK County: HARRISON
Latitude: 14910 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 11000 Feet West of 80 Deg. 12 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR
P. O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: STEVE CASEY
Permit Issued: 09/14/90
Well work Commenced: 10/01/90
Well work Completed: 10/07/90
Verbal Plugging
Permission granted on:
Rotary x Cable _____ Rig
Total Depth (feet) 4622'
Fresh water depths (ft) _____
1235'
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	47'	47'	
8 5/8"	1198'	1198'	340 sks
4 1/2"	4585'	4585'	150 sks

Is coal being mined in area (Y/N)? n
Coal Depths (ft): 792-795; 950-954

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4503-06
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 409 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1580 psig (surface pressure) after 72 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ 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 pressure) after _____ 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: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns
Date: October 23, 1990

NOV 5 1990

R. White #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st.	Benson	13(4503-4506)	100	550	500	69

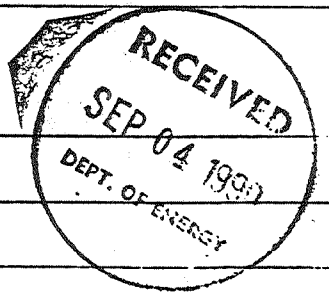
W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET.	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10	
sand, shale, RR	10	1619	Hole damp @ 1235
Big Lime	1619	1683	coal 792-795; 950-954
Big Injun	1683	1773	gas chk @ 1762' No Show
sand, shale	1773	1982	gas chk @ 1980' No Show
Gantz	1982	2002	
sand, shale	2002	2018	
50 ft	2018	2062	
sand, shale	2062	1916	
30 ft	1916	2148	gas chk @ 2074' Odor
sand, shale	2148	2401	
4th	2401	2437	
sand, shale	2437	2450	
4th a	2450	2476	
sand, shale	2476	2539	
5th	2539	2556	gas chk @ 2544' No Show
sand, shale	2556	2587	
Baryard	2587	2608	
sand, shale	2608	2956	
Speechley	2956	3262	gas chk @ 3166' No Show
sand, shale	3262	3332	
Balltown	3332	3632	gas chk @ 3417' No Show
sand, shale	3632	3684	
Bradford	3684	3812	
sand, shale	3812	4219	gas chk @ 3698' No Show
Riley	4219	4301	gas chk @ 4012' 2\10-1"H2O
sand, shale	4301	4471	gas chk @ 4387' No Show
Benson	4471	4532	gas chk @ 4511' 90\10-1"H2O
sand, shale	4532	4633	
	4633	4633	Driller TD 8\10-1"H2O
			DC's 15/10-1"H2O
		4622	Logger TD

033-3757
Issued 9/14/90
Page ___ of ___
Expires 9/14/92

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

- 1) Well Operator: Petroleum Development Corporation 38200 (5) 266
- 2) Operator's Well Number: Ralph White #1 3) Elevation: 1292'
- 4) Well type: (a) Oil ___ / or Gas XX
(b) If Gas: Production XX / Underground Storage ___ /
Deep ___ / Shallow XX /
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5000 feet
- 7) Approximate fresh water strata depths: 45, 318, 606
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 766, 985
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XX /
- 11) Proposed Well Work:
- 12)



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	H-40	42	30	-----	-----
Fresh Water						
Coal						
Intermediate	8 5/8	J-55	20/23	1200	1200	CEMENT TO SURFACE
Production	4 1/2	J-55	10.5	5000	5000	450 sks
Tubing						
Liners						

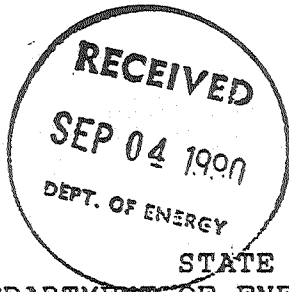
PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

11211

085683



1) Date: August 30, 1990
2) Operator's well number Ralph White #1
3) API Well No: 47 - 033 - 3757
State - County - Permit

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 Ralph & Virginia White
Address 108 Osage Ct.
Clarksburg, WV 26301
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Stephen Casey #2
Address Rt. 2, Box 232-D
Jane Lew, WV 26378
Telephone (304)- 745-4888

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name Same as surface
Address _____
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
XX 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:

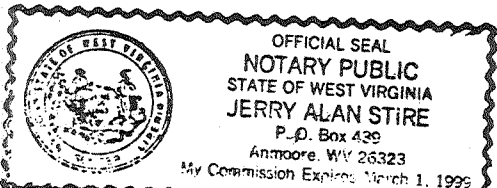
- _____ Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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 Petroleum Development Corporation
By: _____
Its: _____ Geologist
Address _____ P.O. Box 26
_____ Bridgeport, WV 26330
Telephone _____ 304-842-6256



Subscribed and sworn before me this 30th day of August, 19 90

My commission expires March 1, 1999
Jerry Alan Stire Notary Public