

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elev. 1550' NE of Location; elev. 1442

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 Z. Jackson
 R.P.E. _____ L.L.S. 708

PLACE SEAL HERE

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

DATE November 19, 19 91
 OPERATOR'S WELL NO. Frum No. 1
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1265 WATER SHED Wiseman Run
 DISTRICT McClellan-5 COUNTY Doddridge
 QUADRANGLE Falsom 7 1/2' Centerpond 2C

SURFACE OWNER James F. Turner ACREAGE 34.1
 OIL & GAS ROYALTY OWNER Soloman Frum Heirs LEASE ACREAGE 216.6
 LEASE NO. 449400

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 Corp. DESIGNATED AGENT Eric R. Stearns
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

JAN 10 1992

COUNTY NAME PERMIT

Frum #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1ST	Benson	11(5317.5-5320)	100	430	500	76
2ND	4th Sand	14(3046.5-3087)	100	500	750	59

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	2181	Hole Damp H2O @ 668'
Little Lime	2181	2198	Coal 510-512;945-951
sand, shale	2198	2224	gas chk @ 2113' No Show
Big Lime	2224	2311	
Big Injun	2311	2385	
sand, shale	2385	2740	gas chk @ 2453' No Show
Gantz	2740	2765	gas chk @ 2737' No Show
sand, shale	2765	2939	gas chk @ 2988' No Show
Gordon	2939	2976	
sand, shale	2976	3010	
4th	3010	3090	
sand, shale	3090	3107	
5th	3107	3151	gas chk @ 3115' 20/10-2"H2O
sand, shale	3151	3671	
Speechley	3671	4113	gas chk @ 3771' 22/10-2"H2O
sand, shale	4113	4138	
Balltown	4138	4498	gas chk @ 4173' 22/10-2"H2O
sand, shale	4498	4823	gas chk @ 4797' 22/10-2"H2O
Bradford	4823	4925	
sand, shale	4925	5017	
Riley	5017	5186	
sand, shale	5186	5303	gas chk @ 5265' 10/10-2"H2O
Benson	5303	5346	gas chk @ 5329' 16/10-2"H2O
sand, shale	5346	5423	
	5423	5423	Driller TD 16/10-2"H2O
		5424	DC's 10/10-2"H2O
			Logger TD

State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas

Reviewed TMG
 Recorded _____

Well Operator's Report of Well Work

Farm name: TURNER, JAMES & MARTHA Operator Well No.: FRUM #1

LOCATION: Elevation: 1265.00 Quadrangle: FOLSOM

District: MCCLELLAN County: DODDRIDGE
 Latitude: 14400 Feet South of 39 Deg. 25Min. 0 Sec.
 Longitude 8900 Feet West of 80 Deg. 32 Min. 30 Sec.

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	40'	40'	
8 5/8"	1060'	1060'	250 sks
4 1/2"	5394'	5394'	525 sks

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD
 Permit Issued: 01/07/92
 Well work Commenced: 01/16/92
 Well work Completed: 01/22/92
 Verbal Plugging _____
 Permission granted on: _____
 Rotary x Cable _____ Rig _____
 Total Depth (feet) 5424'
 Fresh water depths (ft) 668'
 Salt water depths (ft) n/a
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): 510-512; 945-951 *Pa*

1712 DUV *1273 (w/ 400' diam)*

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5317.5'-20'
 Gas: Initial open flow 169 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 122 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1200 psig (surface pressure) after 72 Hours

Second producing formation 4th Sand Pay zone depth (ft) 3046.5'-87'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow co-mingled 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.

Eric R. Stearns

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns
 Date: February 27, 1992

MAX 0 REC'D

FORM WW-30



017-3937 Issued 11/7/92 Page 1 of 1 11/7/94

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

- 1) Well Operator: Petroleum Development Corporation 38200 (5) 349
2) Operator's Well Number: Frum #1 3) Elevation: 1265'
4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage / Deep / Shallow X/
5) Proposed Target Formation(s): Alexander 430
6) Proposed Total Depth: 5500 feet
7) Approximate fresh water strata depths: 75, 140, 1500, 1675
8) Approximate salt water depths: None reported
9) Approximate coal seam depths: 365, 445, 635, 895, 985, 1620
10) Does land contain coal seams tributary to active mine? Yes / No X
11) Proposed Well Work: Drill & stimulate new well
12)

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS, FOOTAGE INTERVALS, CEMENT. Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

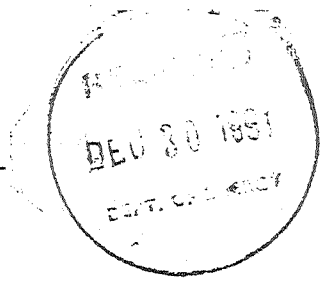
13073

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

05-6-1990

Fee(s) paid: Well Work Permit Reclamation Fund WPCP



- 1) Date: November 26, 1991
- 2) Operator's well number Solomon Frum #1
- 3) API Well No: 47 - 017 - 3937
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 James F. & Martha Turner
Address 600 West Virginia Ave.
Nutterfort, WV 26301
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name No Declaration
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

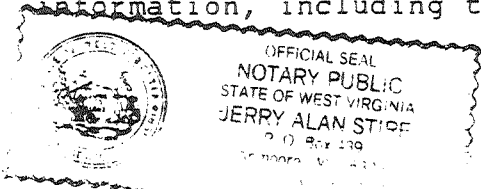
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ 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: [Signature]
Its: Geologist
Address P.O. Box 26
Bridgeport, WV 26330
Telephone 304-842-6256



Subscribed and sworn before me this 26th day of December, 1991

[Signature] Notary Public
My commission expires January 1, 1999