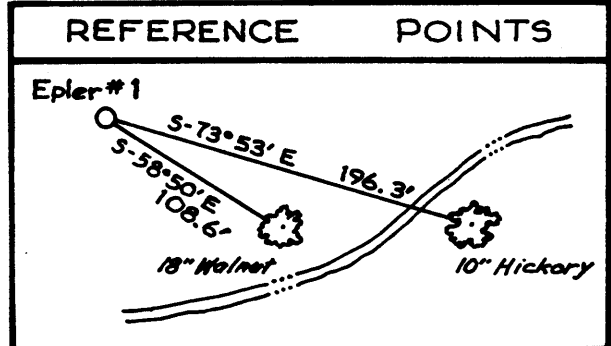


2.48S
0.08W

LONGITUDE 81°20'

13,140'

NOTE: No existing wells within 1200 feet.



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM 731'

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) Paul K Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE Sept. 11, 19 84
 OPERATOR'S WELL NO. Epler #1
 API WELL NO. 47-107-1332

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 768' WATERSHED Walker Creek
 DISTRICT WALKER COUNTY WOOD
 QUADRANGLE PETROLEUM (7.5) ELIZABETH 15' NCL 038
 SURFACE OWNER Walter, Dale, Fred Epler & Evelyn E. Waters ACREAGE 12
 OIL & GAS ROYALTY OWNER SAME AS ABOVE LEASE ACREAGE 12

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 MARCELLUS ESTIMATED DEPTH 5000' (Deerwalk) (74)
 WELL OPERATOR PETHTAL OIL & GAS DESIGNATED AGENT ZEDACK PETHTAL
 ADDRESS P.O. BOX 21 ADDRESS P.O. BOX 21
St. Marus W Va 26170 St. Marus W Va 26170

COUNTY NAME

PERMIT

NPD-Dev.shab
 DEC 31 1984



7-15
(Rev 8-81)

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JUL 12 1985
OIL & GAS DIV.
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 5 - 10 - 85
Operator's
Well No. 1
Farm Epler
API No. 47 - 107 - 1332

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 X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 768 Watershed Walker Creek
District: Walker County Wood Quadrangle Petroleum

COMPANY Pethtel Oil & Gas
ADDRESS P.O. Box 21, St. Marys, WV 26170
DESIGNATED AGENT Zedack Pethtel
ADDRESS P.O. Box 21, St. Marys, WV 26170
SURFACE OWNER Fred Epler
ADDRESS 517 Ellis Ave. Parkersburg, WV
MINERAL RIGHTS OWNER Fred Epler
ADDRESS 517 Ellis Ave. Parkersburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Glen
Robinson ADDRESS Rt. 1, #6, Mt Pleasant
Estates, Mineral Wells, WV 26150
PERMIT ISSUED 12-7-84
DRILLING COMMENCED 12-19-84
DRILLING COMPLETED 12-28-84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	31	31	None
9 5/8	249	249	94
8 5/8			
7	1770	1770	59
5 1/2			
4 1/2	4354	4354	336
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4500 feet
Depth of completed well 4400 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 100 feet; Salt 1650 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Pay zone depth 3398-4321 feet
Gas: Initial open flow 1300 Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 866 Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 760 psig (surface measurement) after 24 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

JUL 29 1985

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Epler #1 was frac'd on two occasions. The first frac consisted of two stages from ~~3729-4321~~. The second frac consisted of three stages from ~~3681-3398~~. Each stage was frac'd with straight nitrogen using treated HCL acid for break down. The first frac used 800,000 scf for each stage and the second frac used 550,000 scf of nitrogen per stage.

Huron → Java

Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
red rock, sand, shale			surface	1421	
Maxxon			1421	1446	
Shale			1446	1581	
Big Lime			1581	1612	
Shale			1612	1656	
Big Injun			1656	1727	
Shale			1727	1738	
Squaw			1738	1748	
Shale			1748	2144	
Berea			2144	2148	
Shale			2148	2258	
Fifty Foot			2258	2262	
Shale			2262	2384	
Thirty Foot			2384	2412	
Shale			2412	2530	
Gordon			2530	2551	
Shale			2551	3034	
Warren			3034	3048	
Shale			3048	3410	
Speechly			3410	3424	
Shale			3424	4254	
Riley			4254	4278	
Shale			4278	4290	
				TD. 4400	Java @ TP

4400
768
3632

508
132
376

(Attach separate sheets as necessary)

Pethtel Oil & Gas
Well Operator

By: Jedak Pethtel

Date: July 13, 1985

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."

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DFC - 7 1984



1) Date: 19 November 19 84
2) Operator's Well No. Epler #1
3) API Well No. 47 -107 - 1332
State County Permit

OIL & GAS DIV.
DEPT. OF MINES

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

- 4) WELL TYPE: A Oil X / Gas X
5) LOCATION: Elevation: 768' / Watershed: Walker Creek / District: Walker / County: Wood / Quadrangle: Petroleum
6) WELL OPERATOR: Pethtel Oil and Gas / Address: P.O. Box 21, St. Marys, WV 26170
7) DESIGNATED AGENT: Zedack Pethtel / Address: Box 21, St. Marys, WV 26170
8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Glenn P. Robinson / Address: Rt. 1, No. 6 Mt. Pleasants Estate, Minerals Wells, WV 26150
9) DRILLING CONTRACTOR: Name: Coastal Corporation / Address: 3501 Emerson Ave. Suite 4B, Parkersburg, WV 26101
10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
11) GEOLOGICAL TARGET FORMATION: Devonian Shale
12) Estimated depth of completed well, 5000 feet
13) Approximate trata depths: Fresh, 170 feet; salt, 800 feet.
14) Approximate coal seam depths: none / Is coal being mined in the area? Yes / No X

15) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Sizes, Depths set, Perforations: Top, Bottom). Includes handwritten entries like '9 5/8', '1800', '5000', '100 sks', '200 sks', '15.05', '15.01'.

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1332 Date December 7, 19 84

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.

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 December 7, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee. Values: 114, MN, MN, MN, 233

Margaret J. Hesse
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