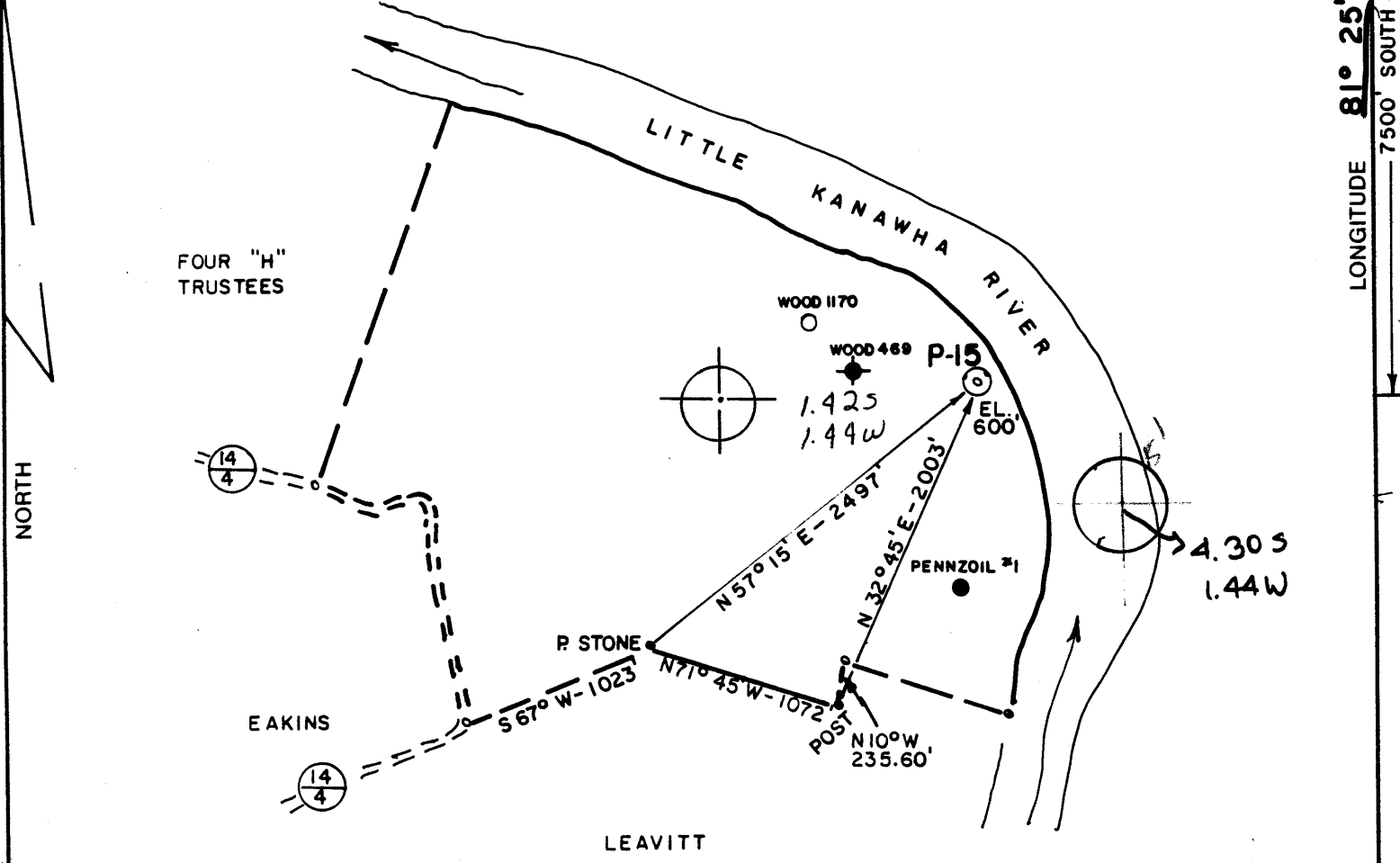


FILE NO. 83-532
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION WELL #1 (636')

7500' WEST
 LATITUDE 39° 12' 30"
39° 15' -15'

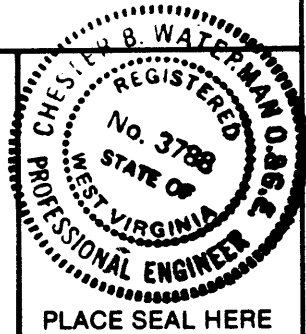
LONGITUDE 81° 25' 00"
 SOUTH 7500'



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

FILE NO. 83-532
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION WELL #1 (636')

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) *Chesley B. Waterman*
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 9/28, 19 83
 OPERATOR'S WELL NO. P-15
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 600 WATER SHED LITTLE KANAWHA RIVER
 DISTRICT SLATE COUNTY WOOD
 QUADRANGLE KANAWHA 7.5° 15' NW
 SURFACE OWNER GEORGE B. NEAL HEIRS ACREAGE 212
 OIL & GAS ROYALTY OWNER GEORGE B. NEAL HEIRS LEASE ACREAGE 212
 LEASE NO. 301

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 OCT 16 1983

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BEREA ESTIMATED DEPTH 2100'
 WELL OPERATOR PRENCO DESIGNATED AGENT DENZIL PRATHER
 ADDRESS P. O. BOX 91 ADDRESS SAME
MINERAL WELLS, WV 26150

COUNTY NAME
 PERMIT

FORM IV-6 (8-78)
 H.T. HALL

(Kanawha Station 1251)



Date June 14, 1984
Operator's Well No. P-15
Farm George B. Neal heirs
API No. 47-107-1289

RECEIVED
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
JUL 11 1984

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION

DEPT. OF MINES

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow XX /)

LOCATION: Elevation: 600' Watershed Little Kanawha River
District: Slate County Wood Quadrangle Kanawha 7 1/2'

COMPANY PRENCO
ADDRESS Box 91, Mineralwells WV 26150
DESIGNATED AGENT Denzil L. Prather
ADDRESS Same
SURFACE OWNER George B. Neal heirs
ADDRESS Parkersburg, WV 26101
MINERAL RIGHTS OWNER Same as above
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock ADDRESS Ripley, WV
PERMIT ISSUED Oct. 14, 1983
DRILLING COMMENCED Oct. 22, 1983
DRILLING COMPLETED Oct. 26, 1983
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.			
13-10"	60'	60'	50 sk
9 5/8			
8 5/8	218'	218'	60 sk
7			
5 1/2			
4 1/2		2196'	190 sk
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 2100 feet
Depth of completed well 2194 feet Rotary XX / Cable Tools
Water strata depth: Fresh n/a feet; Salt n/a feet
Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Berea Pay zone depth 2060-2064 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 50 Mcf/d Final open flow 4 Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 500 psig (surface measurement) after 72 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 23 1984

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

11/2/83: perforated Berea, 2060-2064, with 12 holes.

11/3/83: fractured Berea with 520 bbl water, 500 gal MOD 202 acid, 20,000# 20/40 mesh sand.

WELL LOG
taken from gamma ray log

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
soil, gravel, clay			0	40	
sandstone			40	72	
siltstone and shale			72	210	
sandstone			210	230	
siltstone, sandstone			230	394	
sandstone			394	433	
siltstone, shale			433	920	
sandstone			920	962	
shale			962	975	
sandstone, dolomite			975	1010	
shale			1010	1022	
sandstone			1022	1073	
shale, siltstone			1073	1370	
sandstone			1370	1430	
shale, sandstone			1430	1448	
sandstone			1448	1472	
shale			1472	1485	
sandstone			1485	1563	
limy dolomite			1563	1600	"Big Lime"
sandstone			1600	1655	"Big Injun"
shaly siltstone			1655	1669	
sandy siltstone			1669	1676	
shaly siltstone			1676	2044	
shale			2044	2060	
sandstone, siltstone <i>Berea</i>			2060	2067	sl oil show
shaly siltstone			2067	2202	TD

(Attach separate sheets as necessary)

PRENCO

Well Operator

By: David W. Batten Geologist

Date: June 14, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic record of all formations including



1) Date: September 30, 19 83
 2) Operator's Well No. P--15
 3) API Well No. 47 - 107 - 1289
 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: 600' Watershed: Little Kanawha River
 District: Slate County: Wood Quadrangle: Kanawha 7 1/2'
 6) WELL OPERATOR PRENCO 7) DESIGNATED AGENT Denzil L. Prather
 Address P.O. Box 91 Address P.O. Box 91
Mineral Wells, WV 26150 Mineral Wells, WV 26150
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Sam Hersman Name W. H. Putnam
 Address ~~XXXXXX~~ P. O. Box 66 Address Box 647
Smithville, WV 26178 Marietta, OH 45750
 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, Berea
 12) Estimated depth of completed well, 2100 feet
 13) Approximate trata depths: Fresh, 30 feet; salt, ? feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____

RECEIVED
 10-5-1983

OIL & GAS DIVISION
 DEPT. OF MINES

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		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	F-25	20#	X			200	Surface	By Rule 15.05 Depths set
Production	4 1/2	J-55	10.5#	X			2100	210 sks.	
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1289 Date October 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 October 14, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>SINGLE ATTACHED</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>440</u>
---------------------------------	------------------------------	-----------------------------	-------------------------------	--------------------

[Signature]
 Administrator, Office of Oil and Gas