



1) Date: February 7, 19 83
 2) Operator's Well No. P-11
 3) API Well No. 47 State 073 County 1598 Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 1020' Watershed: Sharps Run
 District: Jefferson County: Pleasants Quadrangle: Schultz 7.5'
- 6) WELL OPERATOR PRENCO
 Address P. O. Box 91
Mineral Wells, WV 26150
- 7) OIL & GAS ROYALTY OWNER G.S.M. Powell Hrs.
 Address Belmont, WV
 Acreage 145
- 8) SURFACE OWNER Harry L. Sigler, Jr.
 Address Rt. 3
St. Marys, WV 26170
 Acreage 145
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert A. Lowther
 Address General Delivery
Middlebourne, WV 26149 PH: 758-4764
- 11) DESIGNATED AGENT Denzil L. Prather
 Address P. O. Box 91
Mineral Wells, WV 26150
- 12) COAL OPERATOR None
 Address _____
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name _____
 Address _____
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____
- 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, Devonian Shale
- 17) Estimated depth of completed well, 5000 feet
- 18) Approximate water strata depths: Fresh, n/a feet; salt, n/a feet.
- 19) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No

RECEIVED

Feb 8 - 1983

OIL AND GAS DIVISION
DEPARTMENT 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									Kinds
Fresh water	8 5/8			<input checked="" type="checkbox"/>			400'	To surface	Sizes
Coal				<input checked="" type="checkbox"/>			1200'	To surface	Depths set
Intermediate	6 5/8			<input checked="" type="checkbox"/>			4000'	280 sks.	Perforations:
Production	4 1/2			<input checked="" type="checkbox"/>					Top Bottom
Tubing									
Liners									

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: Elizabeth J. Snyder
 My Commission Expires June 12, 1990

Signed: Denzil L. Prather
 Its: Designated Agent

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1598 Date February 9 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. 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 October 9, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>me</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>242</u>
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[Signature]
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____
Its _____

PRENCO

STATE ROUTE 14 - P.O. BOX 91
MINERAL WELLS, WEST VIRGINIA 26150

PHONE
304-489-2221

PHONE
304-489-2222

February 7, 1983

Jefferson District
Pleasants Co., W. Va.
G. S. M. Powell Heirs
145 acres
Recorded Feb. 7, 1968
Lease Book 121, page 405
1/8th Royalty to be paid

AFFIDAVIT

I, Denzil L. Prather (the above designated owner or operator, or authorized representative thereof) hereby verifies that the owner or owners of the mineral estate upon which this proposed well is to be located will receive minimum one-eighth (1/8) royalty payments for any gas or oil extracted therefrom. Copies of the 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, co-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.

Signed: Denzil L. Prather
~~(Owner, Operator, or Authorized Representative)~~

Notary : Elizabeth J. Snyder (Signed)

My commission expires June 12, 1990

RECEIVED

FEB 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

1-27-2008, PH.
REUDO, OHIO

BILLED ON
TICKET NO. 569498

CUSTOMER: PLEASANT WELLS LEASE P-11 JOB TYPE: CEMENT 7" SURFACE DATE: 2-16-83

FIELD: SCHULTZ SEC. Dist. Johnson COUNTY PLEASANT STATE W. Va.

FORMATION NAME: 7 TYPE: INTEC.

FORMATION THICKNESS: FROM TO

INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD

PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD

COMPLETION DATE MUD TYPE MUD WT.

PACKER TYPE SET AT

BOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH 1283

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	NEW	20.00	7"	KB	1263	N/A
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE: <u>2-16-83</u>	DATE: <u>2-16-83</u>	DATE: <u>2-16-83</u>	DATE: <u>2-16-83</u>
TIME: <u>03:30</u>	TIME: <u>06:00</u>	TIME: <u>07:25</u>	TIME: <u>07:45</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>7"</u>	<u>1EA.</u>	<u>HOWCO</u>
CENTRALIZERS <u>7"</u>	<u>2EA.</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>7" 5-WIRE</u>	<u>1EA.</u>	<u>HOWCO</u>
HEAD <u>7" PCE MAINTAIN</u>		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. BEARDSLEY</u>	<u>3077 OPER</u>	<u>REUDO</u>
<u>C. GABB</u>	<u>3876 HT-150</u>	<u>"</u>
<u>J. BLAND</u>	<u>50158 BULK TANK</u>	<u>"</u>

MATERIALS

TREAT. FLUID DENSITY LB/GAL. API

DISPL. FLUID DENSITY LB/GAL. API

PROP. TYPE SIZE LB.

PROP. TYPE SIZE LB.

ACID TYPE GAL. %

ACID TYPE GAL. %

ACID TYPE GAL. %

SURFACTANT TYPE GAL. IN

NE AGENT TYPE GAL. IN

FLUID LOSS ADD. TYPE GAL.-LB. IN

GELLING AGENT TYPE GAL.-LB. IN

FRIC. RED. AGENT TYPE GAL.-LB. IN

BREAKER TYPE GAL.-LB. IN

BLOCKING AGENT TYPE GAL.-LB.

PERF PAC BALLS TYPE QTY.

OTHER

OTHER

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 7" SURFACE

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Geo. R. Meeley

HALLIBURTON OPERATOR Michael J. Beardsley COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>130</u>	<u>COMMON A</u>	<u>A</u>	<u>HOWCO</u>	<u>B</u>	<u>37% CALCHL; 1/4% SK FLOCELE</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT

BREAKDOWN MAXIMUM

AVERAGE FRACTURE GRADIENT

SHUT-IN: INSTANT S-MIN. 15-MIN.

HYDRAULIC HORSEPOWER

ORDERED AVAILABLE USED

AVERAGE RATES IN BPM

TREATING DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET REASON

PRESLUSH: BBL.-GAL. TYPE

LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL. 10

TREATMENT: BBL.-GAL. DISPL: BBL.-GAL. 5/15

CEMENT SLURRY: BBL.-GAL. 27.32

TOTAL VOLUME: BBL.-GAL.

REMARKS GOOD CIRCULATION

CUSTOMER

HALLIBURTON SERVICES JOB SUMMARY

HALLIBURTON DIVISION
LOCATION BEND, OH

BILLED ON TICKET NO. 569444

WELL DATA

FIELD: Schultz SEC. _____ TWP. _____ RNG. _____ COUNTY DILLASANTS STATE W.V.

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS	FROM TO						
INITIAL PROD: OIL	BPD. WATER	BPD. GAS	MCFD				
PRESENT PROD: OIL	BPD. WATER	BPD. GAS	MCFD				
COMPLETION DATE	MUD TYPE	MUD WT.					
PACKER TYPE	SET AT						
BOTTOM HOLE TEMP.	PRESSURE						
MISC. DATA	TOTAL DEPTH						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-15-83</u>	DATE <u>2-15-83</u>	DATE <u>2-15-83</u>	DATE <u>2-15-83</u>
TIME <u>0230</u>	TIME <u>0500</u>	TIME <u>0655</u>	TIME <u>0718</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>BRIAN TIERNEY OPER</u>	<u>31276</u>	<u>BEND OH</u>
<u>R. ARBAUGH</u>	<u>HT-150</u>	
	<u>3974</u>	
<u>S. Schofield</u>	<u>TD</u>	
	<u>50806</u>	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>9 3/4 L-A 10 Top Plug</u>	<u>1</u>	<u>Houco</u>
HEAD <u>9 3/4" PICC MANIFOLD</u>	<u>1</u>	
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID WATER DENSITY 8.33 LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. %

ACID TYPE _____ GAL. %

ACID TYPE _____ GAL. %

SURFACTANT TYPE _____ GAL. IN

NE AGENT TYPE _____ GAL. IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. IN

GELLING AGENT TYPE _____ GAL.-LB. IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. IN

BREAKER TYPE _____ GAL.-LB. IN

BLOCKING AGENT TYPE _____ GAL.-LB.

PERFAC BALLS TYPE _____ QTY.

OTHER 150 SLS CMT

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB 9 3/4 SURFACE CASING

JOB DONE THRU: TUBING CASING ANNULUS TBC./ANN.

CUSTOMER REPRESENTATIVE X Paul White

HALLIBURTON OPERATOR Brian Tierney COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>SAND</u>	<u>A</u>	<u>Houco</u>	<u>B</u>	<u>270 CALCU. 1/4" 156 Floc-10</u>	<u>118</u>	<u>15.6</u>

PRESSURES IN PSI

CIRCULATING 150 DISPLACEMENT 250

BREAKDOWN _____ MAXIMUM _____

AVERAGE 200 FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

SUMMARY

PRESLUSH: BBL-GAL. 40 TYPE H2O

LOAD & SKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 36

CEMENT SLURRY: BBL-GAL. 32

TOTAL VOLUME: BBL-GAL. 108

HYDRAULIC HORSEPOWER

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM

TREATING 200 DISPL. 250 OVERALL 225

CEMENT LEFT IN PIPE

FEET 10 REASON CUSTOMER REQUEST

REMARKS

783L of Good Cement Returns

HALLIBURTON SERVICES JOB SUMMARY

HALLIBURTON DIVISION Pittsburgh
HALLIBURTON LOCATION Reno

BILLED ON TICKET NO. 569423

WELL DATA

WELL NO. Schultz SEC. _____ TWP. _____ RNG. _____ COUNTY Pleasants STATE WV

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS	FROM TO						
INITIAL PROD: OIL	BPD. WATER	BPD. GAS	MCFD	CASING			
PRESENT PROD: OIL	BPD. WATER	BPD. GAS	MCFD	LINER			
COMPLETION DATE	MUD TYPE	MUD WT.		TUBING			
PACKER TYPE	SET AT			OPEN HOLE			SHOTS/FT.
BOTTOM HOLE TEMP.	PRESSURE			PERFORATIONS			
DISC. DATA <u>6 1/4" Hole</u>	TOTAL DEPTH <u>3936</u>			PERFORATIONS			

JOB DATA

TOOLS AND ACCESSORIES			CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TYPE AND SIZE	QTY.	MAKE	DATE	DATE	DATE	DATE
LOAD COLLAR <u>4 1/2</u>	<u>1</u>	<u>Halco</u>	<u>7-18-83</u>	<u>7-15-83</u>	<u>7-19-83</u>	<u>7-19-83</u>
LOAD SHOE <u>4 1/2</u>	<u>1</u>	<u>"</u>	<u>TIME 2130</u>	<u>TIME 0200</u>	<u>TIME 0715</u>	<u>TIME 1230</u>
GUIDE SHOE						
CENTRALIZERS <u>Slim Hole</u>	<u>4</u>	<u>"</u>				
BOTTOM PLUG						
TOP PLUG <u>DW Latchdown</u>	<u>"</u>	<u>"</u>				
HEAD <u>Manifold</u>	<u>"</u>	<u>"</u>				
PACKER						
OTHER <u>LD Caffle</u>	<u>"</u>	<u>"</u>				

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. MERCER</u>	<u>29140 OPLR</u>	<u>RENO</u>
<u>A SIMMONS</u>	<u>3996 HT-150</u>	<u>"</u>
<u>G. GUIGNET</u>	<u>9140 RM</u>	<u>"</u>

MATERIALS

REAT. FLUID	DENSITY	LB/GAL. API
DISPL. FLUID	DENSITY	LB/GAL. API
PROP. TYPE	SIZE	LB.
PROP. TYPE	SIZE	LB.
CID TYPE	GAL.	%
CID TYPE	GAL.	%
CID TYPE	GAL.	%
SURFACTANT TYPE	GAL.	IN
SE AGENT TYPE	GAL.	IN
FLUID LOSS ADD. TYPE	GAL.-LB.	IN
CELLING AGENT TYPE	GAL.-LB.	IN
CRIC. RED. AGENT TYPE	GAL.-LB.	IN
REAKER TYPE	GAL.-LB.	IN
LOCKING AGENT TYPE	GAL.-LB.	
PERFFAC BALLS TYPE	QTY.	

DEPARTMENT CEMENT

DESCRIPTION OF JOB 2 Stage Cement Job on 4 1/2" casing

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X David N. Patton

HALLIBURTON OPERATOR Ran Mercer

COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>110</u>	<u>Thix</u>	<u>A</u>	<u>Halco</u>	<u>B</u>	<u>10% Cal Seal 17% CaCl</u>	<u>1.24</u>	<u>15.9</u>
<u>2</u>	<u>100</u>	<u>50/50</u>	<u>A</u>	<u>Halco</u>	<u>B</u>	<u>10% Salt 13.5% Gilsomite/six</u>	<u>1.53</u>	<u>13.2</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING 250 DISPLACEMENT 250-1500 PRESLUSH: BBL-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM 1500 LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

PERFORMANCE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. 62 1/2

MUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 24.29 1st stage 27.25 2nd stage

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL. 351

ORDERED _____ AVAILABLE _____ USED _____ REMARKS Good Circulation

AVERAGE RATES IN BPM _____

CREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

KEY 0 REASON _____

Waited 4 hrs Between Stages

CUSTOMER DeeDee
LEASE Patell
WELL NO. 11
JOB TYPE 4 1/2" casing
DATE 7-19-83



IV-35
(Rev 8-81)

Date May 7, 1984
Operator's
Well No. P-11
Farm G S M Powell Heirs
API No. 47 - 073 - 1598

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
MAY 9 - 1984

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION

DEPT. OF MINES

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

LOCATION: Elevation: 1020' Watershed Sharps Run
District: Jefferson County Pleasants Quadrangle Schultz 7 1/2'

COMPANY PRENCO

ADDRESS Box 91, Mineralwells WV 26150

DESIGNATED AGENT Denzil L. Prather

ADDRESS Same

SURFACE OWNER Harry L. Sigler, Jr.

ADDRESS Schultz WV

MINERAL RIGHTS OWNER G S M Powell Heirs

ADDRESS Belmont WV

OIL AND GAS INSPECTOR FOR THIS WORK

R. Lowther ADDRESS Middlebourne WV

PERMIT ISSUED Feb. 9, 1983

DRILLING COMMENCED Feb. 14, 1983

DRILLING COMPLETED Feb. 19, 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"			
9 5/8	464'	464'	to surf.
8 5/8			
7	1251'	1251'	to 9 5/8
5 1/2			
4 1/2		3928'	to 7"
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian shale Depth 5000 feet

Depth of completed well 3928 feet Rotary XX / Cable Tools

Water strata depth: Fresh 70 feet; Salt feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Balltown Pay zone depth 3651 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 25 Mcf/d Final open flow show Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 100 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

(Continue on reverse side)

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

5-9-83: Perforated, 3602-3702, 51 shots (1 shot per 2 feet).

5-10-83: Fractured with 300 gal 15% HCl and 540 MSCF N₂.

RECEIVED
MAY 10 1984
OIL & GAS DIVISION
DEPT. OF MINES

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			0	5	
red & gray shale, sand			5	978	
gray shale			978	1057	
sand			1057	1158	
siltstone, gray shale			1158	1226	
sand			1226	1274	
gray shale			1274	1289	
sand			1289	1318	
gray shale, siltstone			1318	1385	
sand			1385	1399	
gray shale			1399	1414	
sand			1414	1440	
gray shale			1440	1493	
sand			1493	1500	
siltstone, gray shale			1500	1525	
sand			1525	1546	
gray shale, siltstone			1546	1585	
sand			1585	1642	
limestone (Greenbrier)			1642	1682	
sand (Big Injun)			1682	1744	
gray shale			1744	1760	
sand, shaly			1760	1774	
gray shale			1774	1787	
sand, shaly			1787	1798	
sand (Squaw)			1798	1808	
shaly siltstone			1808	2178	
silty shale			2178	2189	Berea @ 2189
shaly siltstone, fine-coarse			2189	4000	TD

(Attach separate sheets as necessary)

PRENCO

Well Operator

By: David W. Batten Geologist

Date: May 7, 1984

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."

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

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FEB 23 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1598

Oil or Gas Well _____
(KIND)

Company <u>Preenco</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>meneral wells w. Va</u>	Size			
Farm <u>H. L. Lighter Jr</u>	16			Kind of Packer _____
Well No. <u>P-11</u>	13			
District <u>Jefferson</u> County <u>pleasant</u>	10	<u>474</u>	<u>474</u>	Size of _____
Drilling commenced <u>2-</u>	8 1/4			
Drilling completed _____ Total depth <u>2005</u>	6 5/8	<u>1260</u>		Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED <u>10</u> SIZE <u>474</u> No. FT. <u>2-15-83</u> Date			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Client Hunt contractor Rig 7

2-17-83
DATE

R. A. Lowther
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
-----------------------------	--	--	---------	-------------------	--	--

CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
------------------	-----------	------	-----------------------	-----------	------	------

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY preuco

PERMIT NO 47-073-1598

FARM & WELL NO High P-11

DIST. & COUNTY Jefferson Pleasant

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.A. Lowther

DATE Jan 24, 1986

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

Administrator-Oil & Gas Division

DATE



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JUN 1 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
May 16, 1984

COMPANY PRENCO
Box 91
Mineralwells, West Virginia 26150

PERMIT NO 073-1598
FARM & WELL NO G S M Powell, P-11
DIST. & COUNTY Jefferson/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.H. Foulkes
DATE May 30 1984

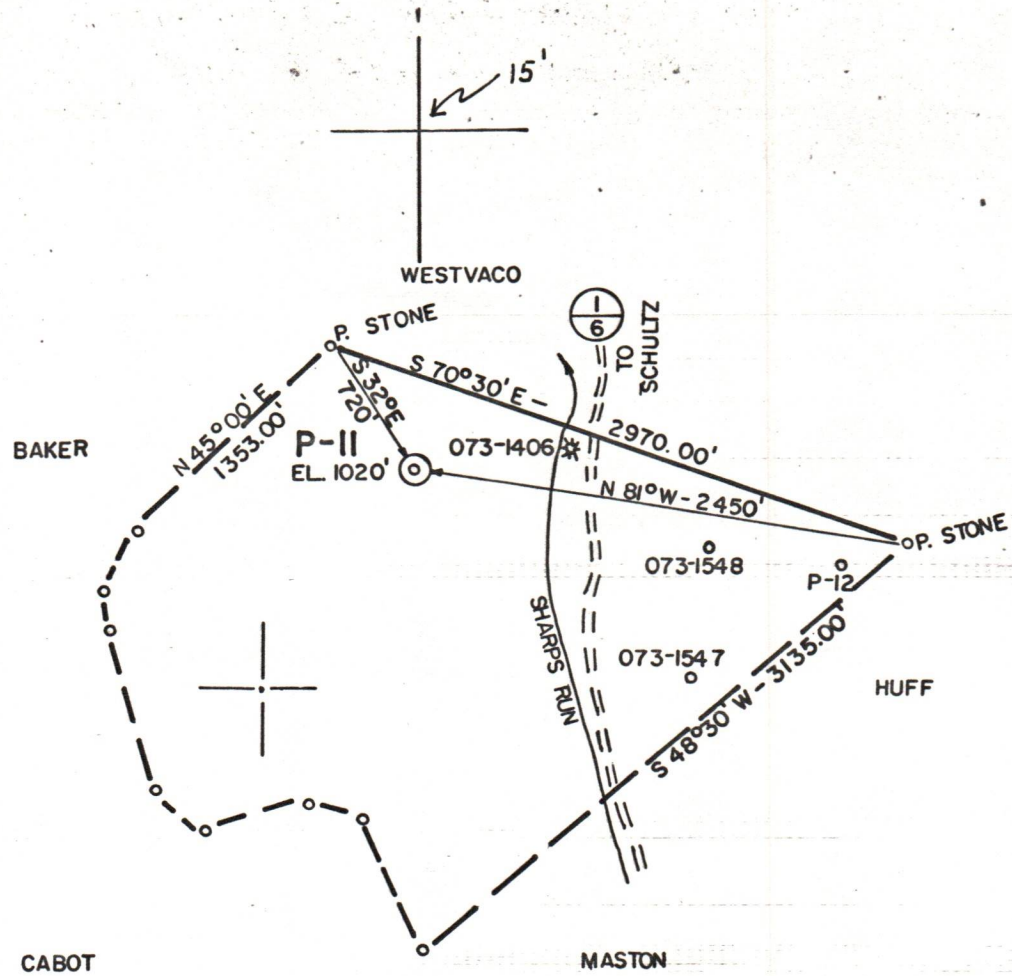
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. r. B.B.
Administrator-Oil & Gas Division

June 6, 1984

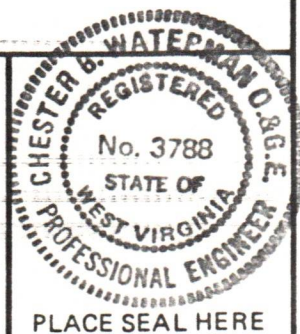
DATE

NORTH



FILE NO. **83-56**
 DRAWING NO. _____
 SCALE **1" = 1000'**
 MINIMUM DEGREE OF ACCURACY **1/200'**
 PROVEN SOURCE OF ELEVATION **WELL 1406 (770')**

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



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE **2/3**, 19 **83**
 OPERATOR'S WELL NO. **P-II**
 API WELL NO. **47 - 073 - 1598**
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION **1020'** WATER SHED **SHARPS RUN**
 DISTRICT **JEFFERSON** COUNTY **PLEASANTS**
 QUADRANGLE **SCHULTZ 7.5'**
 SURFACE OWNER **HARRY L. SIGLER, JR.** ACREAGE **145**
 OIL & GAS ROYALTY OWNER **G. S. M. POWELL HEIRS** LEASE ACREAGE **145**
 LEASE NO. _____
 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 **DEVONIAN SHALE** ESTIMATED DEPTH **5000'**
 WELL OPERATOR **PRENCO** DESIGNATED AGENT **DENZIL PRATHER**
 ADDRESS **P. O. BOX 91** ADDRESS **SAME**
MINERAL WELLS, WV 26150

Pleas-1598

(WILLOW ISLAND)





#1132

IV-9
(Rev 8-81)

DATE Jan. 27, 1983

WELL NO. P-11

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 073 - 1598

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME PRENCO DESIGNATED AGENT Denzil L. Prather
 Address Box 91, Mineralwells WV 26150 Address Same
 Telephone 489-2221/2222 Telephone _____
 LANDOWNER H. L. Sigler, Jr. SOIL CONS. DISTRICT Upper Ohio
 Revegetation to be carried out by Darrell Null (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections
 and additions become a part of this plan: 2/3/83
 (Date)
Renneth R. Mason
 (SCD Agent)

ACCESS ROAD

LOCATION

Structure <u>Drainage Ditch</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing _____	Material <u>Earth</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Culverts</u> (B)	Structure <u>Rip-rap</u> (2)
Spacing <u>24" diameter</u>	Material <u>Logs</u>
Page Ref. Manual <u>2-7</u>	Page Ref. Manual <u>N/A</u>
Structure <u>Cross-drains</u> (C)	Structure <u>Stream crossing</u> (D)
Spacing <u>80-135 ft</u>	Material <u>5' diameter pipe</u>
Page Ref. Manual <u>2-1</u>	Page Ref. Manual <u>2-20</u>

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime _____ Tons/acre
 or correct to pH 6.5
 Fertilizer 500 lbs/acre
 (10-20-20 or equivalent)
 Mulch Hay 1.5 Tons/acre
 Seed* Ky. 31 Fescue 30 lbs/acre
Perennial Ryegrass 30 lbs/acre
Alsike Clover 10 lbs/acre

Lime _____ Tons/acre
 or correct to pH 6.5
 Fertilizer 500 lbs/acre
 (10-20-20 or equivalent)
 Mulch Hay 1.5 Tons/acre
 Seed* Ky. 31 Fescue 30 lbs/acre
Perennial Ryegrass 30 lbs/acre
Alsike Clover 10 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.


PLAN PREPARED BY David W. Batten

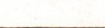
ADDRESS Box 91
Mineralwells, WV 26150
489-2221/2222
 PHONE NO. _____

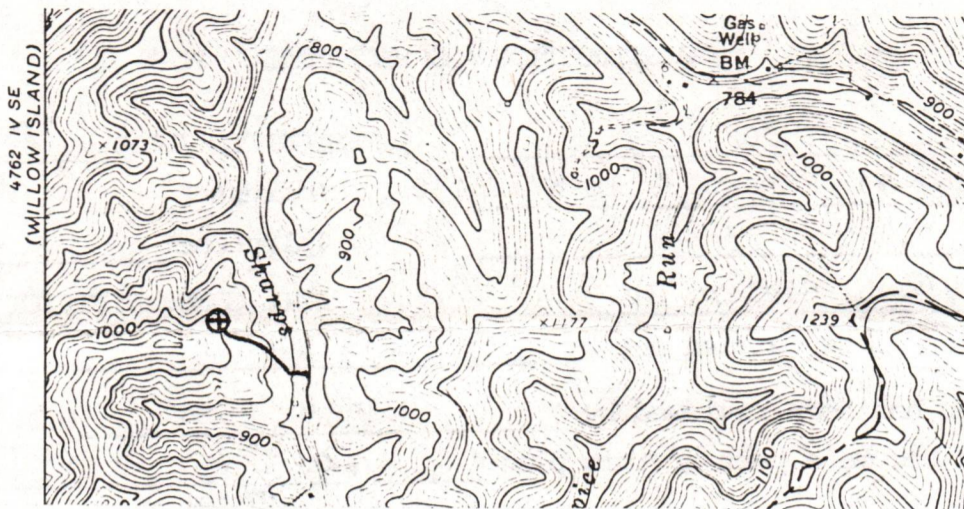
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Schultz 7 $\frac{1}{2}$ '

LEGEND

Well Site 











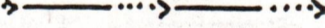
Access Road 



WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 