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IV-35 (Rev 8-81)

NOV 22 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date Nov. 19, 1982 Operator's Well No. P-8 Farm Arden Hodge API No. 47 - 085 - 5814

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 Y /)

LOCATION: Elevation: 950' Watershed Otterslide Creek District: Union County Ritchie Quadrangle Pullman 7 1/2'

COMPANY PRENCO ADDRESS P.O. Box 91, Mineral Wells, WV DESIGNATED AGENT Denzil L. Prather ADDRESS Same SURFACE OWNER Arden Hodge ADDRESS Same MINERAL RIGHTS OWNER ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV PERMIT ISSUED 8/13/82 DRILLING COMMENCED 8/18/82 DRILLING COMPLETED 8/22/82 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale (Fifth) Depth 2860 feet Depth of completed well 2781 feet Rotary X / Cable Tools Water strata depth: Fresh 200 feet; Salt Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Weir, Maxton Pay zone depth 2150, 1900 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 250 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure 720 psig (surface measurement) after 12 hours shut in (If applicable due to multiple completion--)

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

Weir: perforated 2147' - 2157' with 40 holes;
treated with 250 MSCF N₂; formation
did not break. ?

Maxton: perforated 1890' - 1909' with 20 holes;
fractured with 540 MSCF N₂.

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	10	
Sand & shale			10	517	
Shale			517	523	
Sand & shale			523	947	
Sand			947	985	
Shale			985	1013	
Sand			1013	1041	
Sand & shale			1041	1190	
Sand			1190	1223	
Sand & shale			1223	1314	
Sand			1314	1331	
Sand & shale			1331	1590	
Sand			1590	1612	
Sand & shale			1612	1703	
Sand			1703	1744	
Silty sand			1744	1792	
Maxton			1792	1916	
Big Lime			1916	1938	
Big Injun			1938	1958	
Shaly silt			1958	2139	
Weir			2139	2266	
Shaly silt			2266	2300	
Silty shale			2300	2313	
Berea			2313	2314	
Shaly silt			2314	2430	
2nd Berea			2430	2436	
Shaly silt			2436	2535	
Gordon			2535	2544	
Shaly silt			2544	2697	
<u>Fifth</u>			2697	2704	
Shaly silt			2704	2814	T.D.

(Attach separate sheets as necessary)

PRENCO

Well Operator

By: David W. Butler

Geologist

Date: Nov. 19, 1982

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
minerals, encountered in the drilling of a well."



Date: August 12, 19 82
Operator's Well No. Hodge P-8
API Well No. 47 085 5814
State County Permit

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

WELL TYPE: Oil / Gas
(If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)

LOCATION: Elevation: 950' Watershed: Otterslide Creek
District: Union County: Ritchie Quadrangle: Pullman 7.5'

WELL OPERATOR PRENCO
Address P. O. Box 91
Mineral Wells, WV 26150

DESIGNATED AGENT Denzil L. Prather
Address P. O. Box 91
Mineral Wells, WV 26150

OIL & GAS ROYALTY OWNER Arden Hodge
Address Berea, W. Va.

COAL OPERATOR None
Address _____

ACREAGE 140

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None

SURFACE OWNER Arden Hodge
Address Berea, W. Va.

Address _____

ACREAGE 140

Name AUG 13 1982
Address _____

FIELD SALE (IF MADE) TO:
Address _____

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Samuel N. Hersman
Address P.O. Box 66
Smithville, W. Va. 26178
477-3597

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease other contract _____ / dated March 1, 19 82, to the undersigned well operator from _____

(IF said deed, lease, or other contract has been recorded):
Recorded on March 15, 19 82, in the office of the Clerk of the County Commission of Ritchie County, West Va., in Lease Book 142 at page 158. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____
—planned as shown on the work order on the reverse side hereof.

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.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

PRENCO
Well Operator
By Denzil L. Prather
Its Designated Agent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRIILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.

Address Elkview, W. Va.

GEOLOGICAL TARGET FORMATION, Devonian Shale (Gordon and 5th)

Estimated depth of completed well, 2860 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, feet; salt, feet.

Approximate coal seam depths: Is coal being mined in the area? Yes / No X /

GRADING AND TUBING PROGRAM

Table with columns: GRADING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft), FOOTAGE INTERVALS (New, Used, For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Rows include Conductor, Fresh Water, Intermediate, Production, Tubing, Liners.

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE. ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22, ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE IF OPERATIONS HAVE NOT COMMENCED BY 4-16-83 BY [Signature]

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