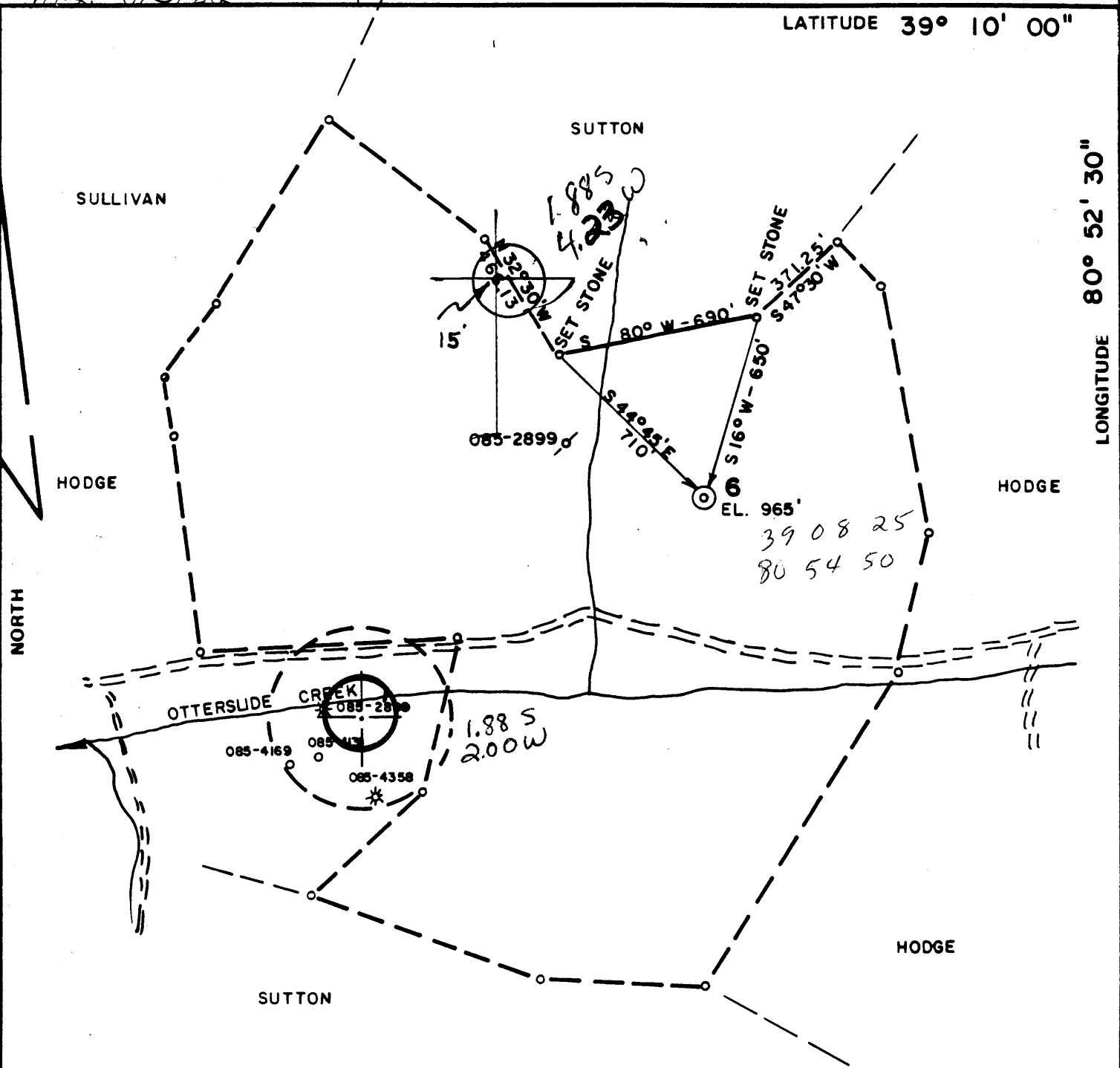


17.2 8/3/82

Plot Card CSD 10,520' WEST

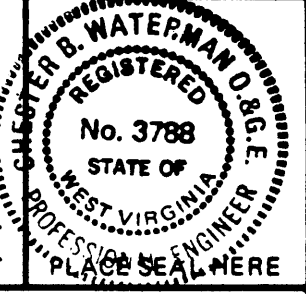
LATITUDE 39° 10' 00"

LONGITUDE 80° 52' 30"



FILE NO. 82-292
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1'/200'
 PROVEN SOURCE OF ELEVATION WELL #1 (859)

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) Chas Waterman
 R.P.E. 3788 L.L.S. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 7/30, 1982
 OPERATOR'S WELL NO. P-6
 API WELL NO. 47-085-5794
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 965 WATER SHED OTTERSIDE CREEK
 DISTRICT UNION COUNTY RITCHIE
 QUADRANGLE PULLMAN 7.5' Holbrook 15/C
 SURFACE OWNER ARDEN HODGE ACREAGE 100
 OIL & GAS ROYALTY OWNER ARDEN HODGE LEASE ACREAGE 100
 LEASE NO. 239
 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 DEVONIAN SHALE ESTIMATED DEPTH 8500'
 WELL OPERATOR PRENCO DESIGNATED AGENT DENZIL PRATHER
 ADDRESS P.O. BOX 91 MINERAL WELLS, WV 26150 ADDRESS SAME
 AUG 9 1982

RECEIVED

NOV 22 1982



IV-35 (Rev 8-81)

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-6 Farm Arden Hodge API No. 47 - 085 - 5794

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: 965' Watershed Otterslide Creek District: Union County Ritchie Quadrangle Pullman 7 1/2'

COMPANY PRENCO ADDRESS P.O.Box 91, Mineral Wells, WV 26150 DESIGNATED AGENT Denzil L. Prather ADDRESS Same SURFACE OWNER Arden Hodge ADDRESS Berea, WV MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV PERMIT ISSUED 8/2/82 DRILLING COMMENCED 8/4/82 DRILLING COMPLETED 8/10/82 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 (Alexander) Depth 5500 feet Depth of completed well 5033 feet Rotary X / Cable Tools Water strata depth: Fresh 150 feet; Salt Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Speerchley up Dev. undiff. Pay zone depth 3083-3280 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 50 Mcf/d Final open flow show Bbl/d Time of open flow between initial and final tests hours Static rock pressure 200 psig (surface measurement) after 12 hours shut in (If applicable due to multiple completion--)

NOV 29 1982

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

Speechley: perforated 3083' - 3280' with 24 holes;
fractured with 500 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			10	320	
Sand & shale			320	522	
Shale			522	529	
Sand & shale			529	780	
Shale			780	955	
Sand			955	990	
Shale			990	1024	
Sand			1024	1053	
Sand & shale			1053	1330	
Sand			1330	1407	
Shale			1407	1471	
Sand			1471	1518	
Shale			1518	1599	
Sand			1599	1630	
Shale			1630	1709	
Sand			1709	1748	
Shale			1748	1881	
Big Lime			1881	1946	
Big Injun			1946	1959	
Shaly silt			1959	2144	
Weir			2144	2271	
Shaly silt			2271	2299	
Silty shale			2299	2313	
Berea			2313	2314	
Shaly silt			2314	2428	
2nd Berea			2428	2436	
Shaly silt			2436	2510	
Gordon			2510	2521	
Shaly silt			2521	2696	
Fifth			2696	2702	
Shaly silt & silty shale			2702	5112	

5112		
2314	3083	3280
2798	2314	2314
	769	866

(Attach separate sheets as necessary)

PRENCO

Well Operator

By: David W. Batten

Geologist

Date: November 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 coal, encountered in the drilling of a well."



Date: August 2, 19 82

Operator's Well No. Hodge P-6

API Well No. 47 085 5794
State County Permit

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

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

LOCATION: Elevation: 965' 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 100

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Arden Hodge
Address Berea, W. Va.

Name None
Address _____

Acreage 100

Name _____
Address _____

FIELD SALE (IF MADE) TO:
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Sam Hersman
Address P. O. Box 56
Smithville, W. Va.

Name None
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X
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 155. A permit is requested as follows:

PROPOSED WORK: Drill X / 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

RECEIVED
AUG 02 1982

OIL & GAS DIVISION
DEPT. OF MINES
BLANKET BOND

PRENCO
Well Operator
By Denzil L. Prather
Its Designated Agent

PROPOSED WORK ORDER

2-81)

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

DILLING CONTRACTOR (IF KNOWN) Clint Hurt Address Clendenin, W. Va.

GEOLOGICAL TARGET FORMATION, Devonian Shale (Alexander)

Estimated depth of completed well, 5000 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 /

LOGGING AND TUBING PROGRAM

Table with columns: LOGGING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft), FOOTAGE INTERVALS (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, Logging, Packers.

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 4-3-83 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