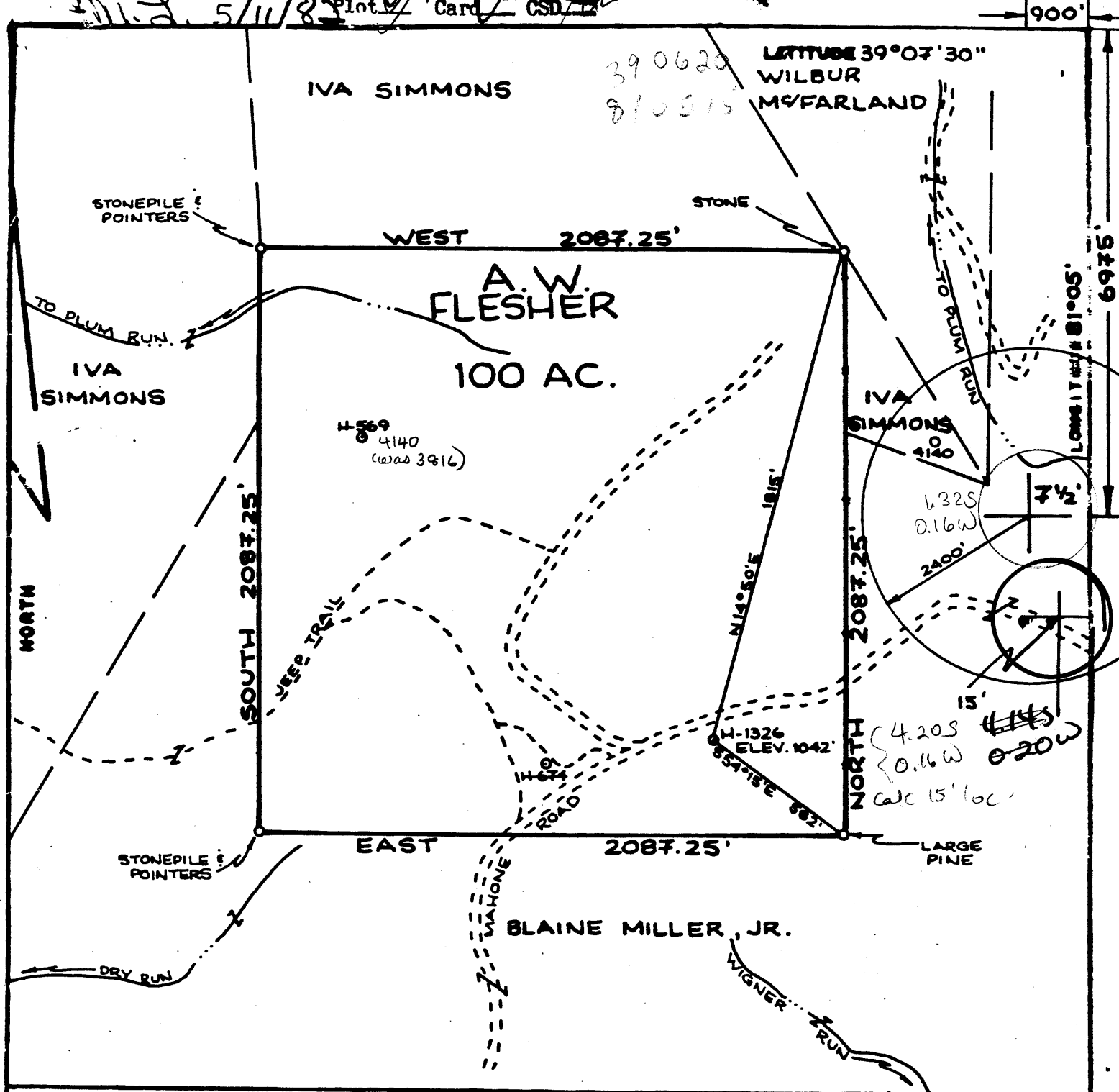
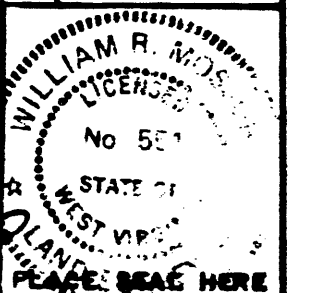


5/11/82 Plot Card CSD



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ED. INT. ELEV. 1048'

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) *William R. Madsen*  
 R.P.E. \_\_\_\_\_ L.L.S. 551



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-79)



DATE 30 APRIL, 1982  
 OPERATOR'S WELL NO. H-1326  
 API WELL NO. 47-085-5613  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1042' WATER SHED WIGNER RUN  
 DISTRICT MURPHY COUNTY RITCHIE  
 QUADRANGLE SMITHVILLE 7 1/2' QUAD Harrisville 15' C  
 SURFACE OWNER IVA HILL SIMMONS ACREAGE 100  
 OIL & GAS ROYALTY OWNER A.W. FLESHER LEASE ACREAGE 100  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION SHALE ESTIMATED DEPTH 5000'  
 WELL OPERATOR HAUGHT, INC. DESIGNATED AGENT WARREN HAUGHT, 24 1982  
 ADDRESS SMITHVILLE, W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178  
 3-3 MAH ONE 129

5613

WELL TYPE: Gas X / Liquid Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_  
 (If "Gas", Production \_\_\_\_\_ Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X  
 LOCATION: Elevation: 1042' Watershed: Wigner Run  
 District: Murphy County: Ritchie Quadrangle: Smithville, WV

WELL OPERATOR Haight, Inc. DESIGNATED AGENT Warren R. Haight,  
 Address Rt. 3, Box 14 Address Rt. 3, Box 14  
Smithville, WV 26178 Smithville, WV 26178

PERMITTED WORK: Drill X / Convert \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Replug old formation \_\_\_\_\_ /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON May 7, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:  
 (IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR  
 REWORKING. VERBAL PERMISSION OBTAINED Name DEO Mace  
 Address Rt. 1, Box 5  
Sandridge, WV 25325

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 4336-4552 feet  
 Depth of completed well, 4552 feet Rotary X / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 Coal seam depths: None Is coal being mined in the area? No  
 Work was commenced May 25, 1982, and completed May 31, 1982

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	7" casing	17#		X		1280'	1280'	250 sacks
Coal								Sizes
Intermediate								
Production Tubing	4 1/2"	J-55	10.5#	X			4508'	Depth set
Liners								Perforations:
<b>RECEIVED</b>								
JUL 6 - 1982								
OIL AND GAS DIVISION WV DEPARTMENT OF MINES								4312-4474

OPEN FLOW DATA

Producing formation Devonian Shale BEUJIN Pay zone depth 4312-4474  
 Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow, 3,500 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, 8 hours  
 Static well pressure, 1000 psig (surface measurement) after 12 hours shut in

JUL 19 1982

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

Nitrogen fraced by B.J..Hughes

1st. Stage-- 640,000 SCF  
615,000 Vol. 500 Gal.  
15% Acid.

L LOG

FORMATION	Color	Hard, or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Shale	Gray	Soft	0	47	
Sand	White	Hard	47	56	
Shale	Gray	Soft	56	62	
R.R.	Red	Soft	62	71	
Shale	Gray	Soft	71	106	
R.R.	Red	Soft	106	124	
Sand	White	Hard	124	127	
Shale	Gray	Soft	127	202	
R.R.	Red	Soft	202	227	
Shale	Gray	Soft	227	419	
Sand	White	Hard	419	433	
R.R.	Red	Soft	433	458	
Shale	Gray	Soft	458	786	
Sand	White	Hard	786	793	
Shale	Gray	Soft	793	934	
Sand	White	Hard	934	958	
Shale	Gray	Soft	958	1239	
Sand	White	Hard	1239	1257	
Shale	Gray	Soft	1257	1406	
Sand	White	Hard	1406	1423	
Shale	Gray	Soft	1423	1689	
Sand	White	Hard	1689	1701	
Shale	Gray	Soft	1701	1890	
Lime	White	Hard	1890	1967	
Sand	White	Hard	1967	2092	
Shale	Gray	Soft	2092	2206	
Sand	White	Hard	2206	2218	
Shale	Gray	Soft	2218	2445	
Sand	White	Hard	2445	2461	
Shale	Gray	Soft	2461	2647	
Sand	White	Hard	2647	2673	
Shale	Gray	Soft	2673	2809	
Sand	White	Hard	2809	2822	
Shale	Gray	Soft	2822	3017	
Sand	White	Hard	3017	3028	
Shale	Gray	Soft	3028	3153	
Sand	White	Hard	3153	3177	
Shale	Gray	Soft	3177	3296	
Sand	White	Hard	3296	3319	
Shale	Gray	Soft	3319	3441	
Sand	White	Hard	3441	3454	
Shale	Gray	Soft	3454	3607	
Sand	White	Hard	3607	3622	
Shale	Gray	Soft	3622	3741	
Sand	White	Hard	3741	3772	
Shale	Gray	Soft	3772	3916	
Sand	White	Hard	3916	3931	
Shale	Gray	Soft	3931	4066	
Sand	White	Hard	4066	4083	
Shale	Gray	Soft	4083	4223	
Sand	White	Hard	4223	4231	
Shale	Gray	Soft	4231	4309	
Sand <i>Benson</i>	White	Hard	4309	4336	
Shale	Gray	Soft	4336	4552	

4552  
3454  
-----  
1098 EXPL FT.

Huron  
@TD

Regulation 0.01(1) provides as follows

Well Operator

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. H-1326  
API Well No. 47 - 085 5613  
State County Per

WELL TYPE: Oil XX / Gas XX /  
(If "Gas", Production      / Underground storage      / Deep      / Shallow XX /)  
LOCATION: Elevation: 1042' Watershed: Wigner Run  
District: Murphy County: Ritchie Quadrangle: Smithville 7 1/2'

WELL OPERATOR Haight, Inc.  
Address Rt. 3, Box 14  
Smithville, WV 26178

DESIGNATED AGENT Warren R. Haight  
Address Rt. 3, Box 14  
Smithville, WV 26178

OIL & GAS ROYALTY OWNER A.W. Flesher Heirs  
C/O Robert R. Jones  
Address P.O. Box 86  
Sandfork, WV 26430

COAL OPERATOR None  
Address     

Acreage 100

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Iva Hill Simmons  
Address Box 16  
Mahone, WV 26402  
Acreage 100

Name     

Address     

Name     

Address     

FIELD SALE (IF MADE) TO:  
Name       
Address     

COAL LESSEE WITH DECLARATION ON RECORD:

Name None

Address     

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Deo Mace  
Address Rt. 1, Box 5  
Sandridge, WV 25325

**RECEIVED**

MAY - 7 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed      / lease XX / other contract      / dated Nov. 14, 1977, to the undersigned well operator from Robert R. Jones

[If said deed, lease, or other contract has been recorded:]

Recorded on Nov. 17, 1977, in the office of the Clerk of the County Commission of Ritchie County, West Virginia, in 124 Book 250 at page     . A permit is requested as follows:

PROPOSED WORK: Drill XX / 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

MARKET BOND

Haight, Inc.  
Well Operator

By Warren R. Haight

Its President

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Haight, Inc.  
Address Rt. 3, Box 14  
Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, \_\_\_\_\_ feet Rotary XX / Cable tools \_\_\_\_\_ /

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

Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ / No XX

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	J-55	20#	X		2000' 300	2000' 300	Cement to Surface	
Coal									Sizes
Intermediate	1 1/2	K-55	10.5#	X			5000'	500 Sacks	Depths set
Production	4 1/2								Perforations:
Tubing									Top Bottom
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 drilling 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  
1-13-83  
IF OPERATIONS HAVE NOT COMMENCED BY

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:

W A I V E R

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 \_\_\_\_\_