



1) Date: 11-28-, 19 83
 2) Operator's Well No. H-1442
 3) API Well No. 47 - 085 - 6819
 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 XX / Gas XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1040' Watershed: Indian Run
 District: Murphy County: Ritchie Quadrangle: Harrisville 7 1/2
- 6) WELL OPERATOR Haight, Inc. 7) DESIGNATED AGENT ~~XXXXXXXXXXXX~~
 Address 4424 Emerson Ave. Address Warren R. Haight
Parkersburg, WV 26104 Smithville, WV 26178
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Samuel Hersman Name Haight, Inc.
 Address P.O. Box 66 Address Same
Smithville, WV 26178
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate XX
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Lower Devonian Shale **MARCELLUS SHALE**
 12) Estimated depth of completed well, 5000 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____ / No XX
- 15) CASING AND TUBING PROGRAM

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 DEPT. OF MINES

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		Kinds	Sizes
Conductor										
Fresh water	8-5/8	K55	20	X		1140'	1140'	Cement to Surface		
Coal									by rule 15.05	
Intermediate										
Production	4 1/2	J55	10 1/2	X			5000'	500 sx	Depths set	
Tubing									or as req. by rule 15.01	
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-6819

Date December 19, 1983

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 December 19, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET BOND	Agent: <u>lo</u>	Plat: <u>MU</u>	Casing: <u>MW</u>	Fee: <u>5120</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) Well No. 17-118-2810 State West Virginia County Putnam

2) Operator W. S. ...

3) Designated Agent ... Address ...

4) Drilling Contractor ... Name ... Address ...

5) Oil & Gas Inspector to be notified ... Name ... Address ...

6) Well Operator ... Address ...

7) Location: District ... County ... Elevation ... Water depth ...

8) Proposed Well Work: ...

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OIL & GAS DIVISION

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

...
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NOTE: Keep one copy of the permit posted in the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



17-9
(Rev 3-81)

DATE 4 NOVEMBER, 1983

WELL NO. H-1442

State of West Virginia

API NO. 47 - 085 - 6819

Department of Mines
Oil and Gas Division
Construction & Reclamation Plan

COMPANY NAME HAUGHT, INC.
ADDRESS 4424 EMERSON AVENUE
PARKERSBURG, W.VA. 26104
Telephone (304) 424-5075

DESIGNATED AGENT WARREN R. HAUGHT
ADDRESS 4424 EMERSON AVENUE
PARKERSBURG, W.VA. 26104
Telephone (304) 424-5075

LANDOWNER WARREN R. HAUGHT

SOIL CONS. DISTRICT LITTLE KANAWHA

Revegetation to be carried out by WARREN R. HAUGHT (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 11-16-83

(Date)
Garrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>CROSS DRAIN</u> (A)	Structure <u>DIVERSION DITCH</u> (1)
Spacing <u>45' TO 400' (AS NEEDED)</u>	Material <u>SOIL</u>
Page Ref. Manual <u>2:1</u>	Page Ref. Manual <u>2:12</u>
Structure <u>RIP-RAP (LOGS ?/ HAY BALES)</u> (B)	Structure <u>RIP-RAP</u> (2)
Spacing <u>SAME AS CROSS DRAIN</u>	Material <u>LOGS ?/ HAY BALES</u>
Page Ref. Manual <u>2:9</u>	Page Ref. Manual <u>2:9</u>
Structure <u>DRAINAGE DITCH</u> (C)	Structure <u>RECEIVED</u> (3)
Spacing _____	Material _____
Page Ref. Manual <u>2:12</u>	Page Ref. Manual _____

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DEPT. 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

Lime _____	Tons/acre
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u>	lbs/acre
(10-20-20 or equivalent)	
Mulch <u>HAY OR STRAW</u>	2 Tons/acre
Seed* <u>ORCHARD GRASS</u>	12 lbs/acre
<u>LADINO CLOVER</u>	3 lbs/acre
<u>TIMOTHY</u>	6 lbs/acre
	lbs/acre

Treatment Area II

Lime _____	Tons/acre
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u>	lbs/acre
(10-20-20 or equivalent)	
Mulch <u>HAY OR STRAW</u>	2 Tons/acre
Seed* <u>ORCHARD GRASS</u>	12 lbs/acre
<u>LADINO CLOVER</u>	3 lbs/acre
<u>TIMOTHY</u>	6 lbs/acre
	lbs/acre

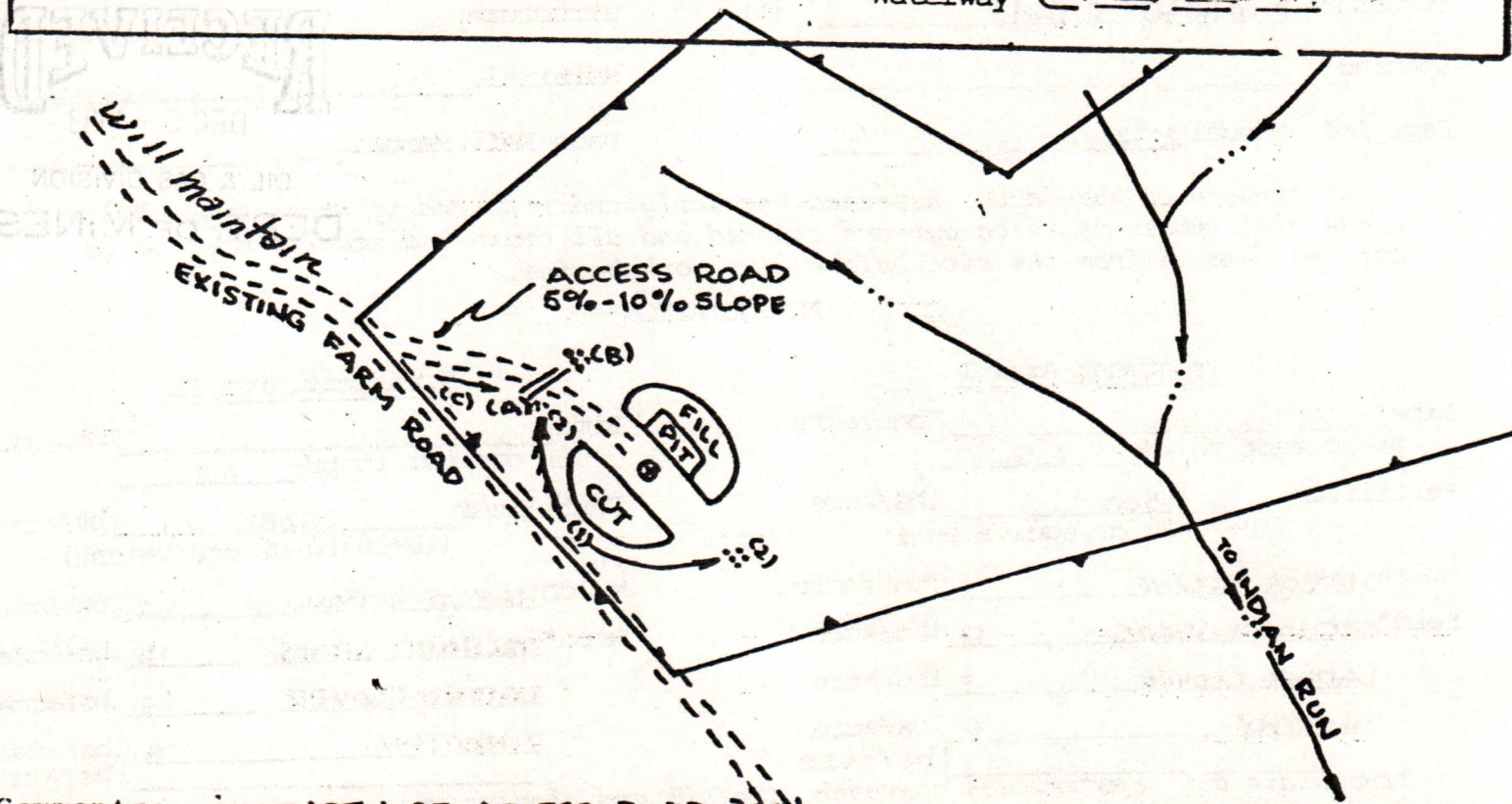
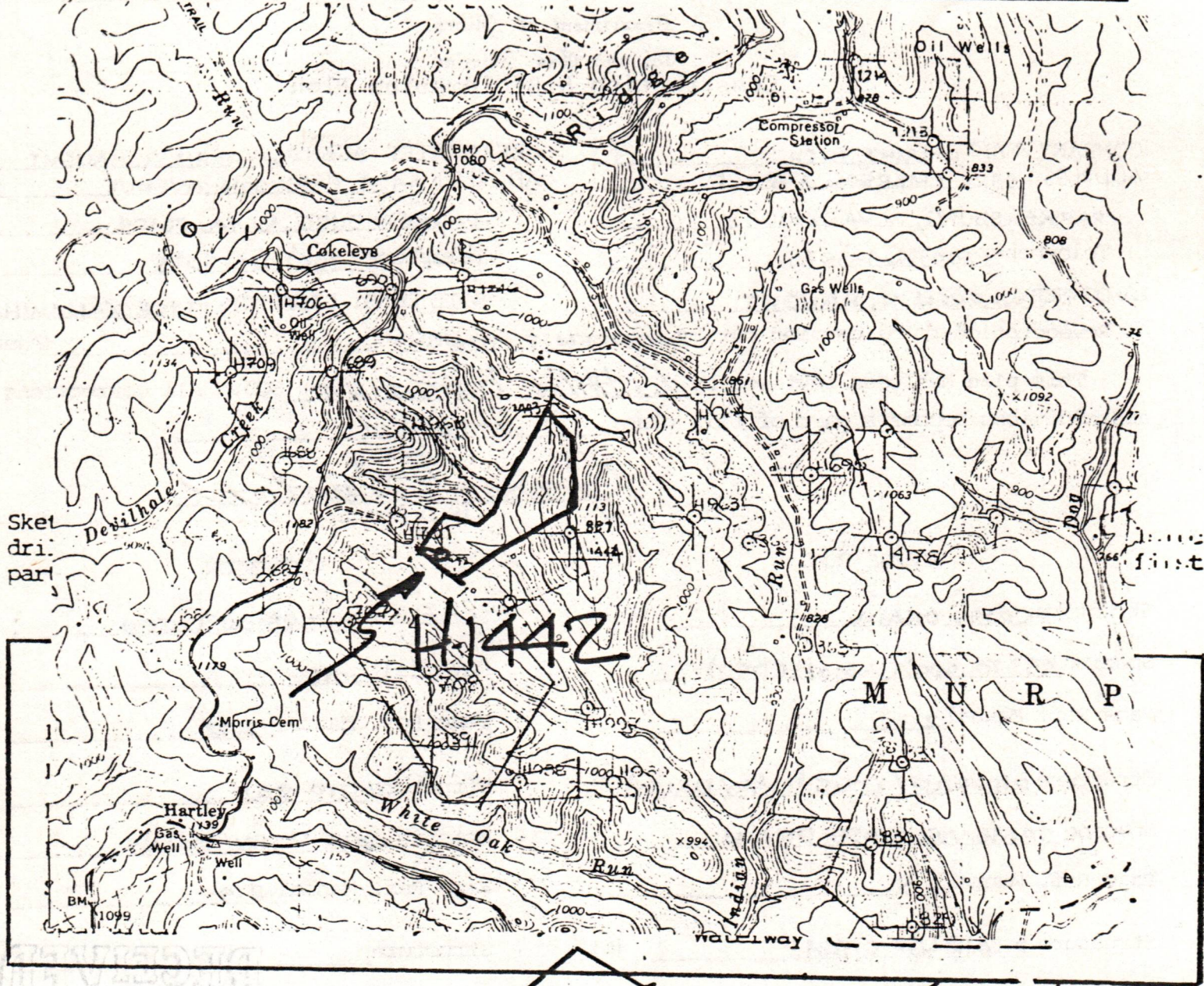
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY WILLIAM R. MOSSOR, L.L.S.
ADDRESS 106 NORTH SPRING STREET
HARRISVILLE, W.VA. 26362
PHONE NO. (304) 643-4572

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 HARRISVILLE

LEGEND
WELL SITE ⊕ ACCESS ROAD —



- Comments:
1. LENGTH OF ACCESS ROAD 200'
 2. BRUSH TO BE CUT AND PILED AT SITE.
 3. TREES TO BE CUT AND STACKED AT SITE.
 4. _____
 5. _____

1) Date: 11-28-1983
2) Operator's Well No. H-1442
3) API Well No. 47-085-6819
State County Permit:

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Warren R. Haught
Address Rt. 3 Box 14
Smithville, WV 26178
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name None
Address _____

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) 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.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other 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.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

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OIL & GAS DIVISION
DEPT. OF MINES

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

MARK S. MASON
this 28 day of NOV, 1983.
My commission expires 5-12, 1986.

Linnal G. Haught
Notary Public, Putnam County,
State of West Virginia

WELL OPERATOR HAUGHT, Inc.
By Mark S. Mason
Its Well Administrator
Address 4424 Emerson Ave
Parkersburg, WV 26104
Telephone 204-424-5075

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page

Charly G. & Anna Jane Swadley Warren R. Haight V8 126/648



1) Date: 11-28-, 19 83
 2) Operator's Well No. H-1442
 3) API Well No. 47
 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 XX / Gas XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1040' Watershed: Indian Run
 District: Murphy County: Ritchie Quadrangle: Harrisville 7 1/2
- 6) WELL OPERATOR Haught, Inc. 7) DESIGNATED AGENT XXXXXXXXXXXX
 Address 4424 Emerson Ave. Address Warren R. Haught
Parkersburg, WV 26104 Smithville, WV 26178
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Samuel Hersman Name Haught, Inc.
 Address P.O. Box 66 Address Same
Smithville, WV 26178
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Lower Devonian Shale
 12) Estimated depth of completed well, 5000 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM

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 OIL & GAS DIVISION
 DEPT. OF MINES

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	<u>1-5/8</u>	<u>K55</u>	<u>20</u>	<u>X</u>		<u>1140'</u>	<u>1100'</u>	<u>Cement to</u>	<u>Surface</u>
Coal									Sizes
Intermediate									
Production	<u>4 1/2</u>	<u>J55</u>	<u>10 1/2</u>	<u>X</u>			<u>5000'</u>	<u>500 sx</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.
 I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
Warren R. Haught Date: 11/28/83
 (Signature)
 _____ Date: _____
 (Signature)

**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF W. Va.,
COUNTY OF WOOD :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. H-1442 located in Murphy District, Ritchie County, West Virginia, upon the person or organization named--

WARREN R. HAUGHT

--by delivering the same in Ritchie County, State of W. Va. on the 28th day of NOV, 1983 in the manner specified below.

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DEC 5 - 1983

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

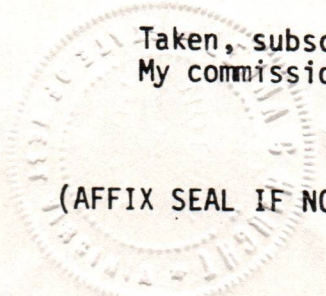
Handing it to the corporation's employee / officer / director / attorney in fact / named _____.

Mark S. Mason
(Signature of person executing service)

Taken, subscribed and sworn before me this 28th day of November, 1983.
My commission expires May 18, 1986.

Louise G. Haught
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)





RECEIVED

MAY 28 1985

OIL & GAS DIVISION
DEPT. OF MINES

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

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Haight Oil Producing Corporation (the transferor) to Colburn Energy Corporation (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) John F. Arnold,
(address) 1702 Forest Hills Drive, Vienna, WV 26105
is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. Certificate of Deposit for \$50,000.00 at First American Bank of Virginia, McLean, Virginia, #020-0726805

(Transferee) Colburn Energy Corporation
By Deborah J. Colburn
Its Vice President

Taken, subscribed and sworn to before me this 21 day of May 19 85
Notary Public Eugene Batista
My commission expires My Commission Expires March 26, 1989

(Transferor) Haight Oil Producing Corp.
By Mark Mason
Its Coordinator of Operations & Admin

Taken, subscribed and sworn to before me this 23 day of May 19 85
Notary Public Deborah L. Comer
My commission expires 5-3 19 94

ACCEPTED THIS 13 DAY OF Jun 19 85
BY: [Signature]
Administrator-Office of Oil and Gas

Open flow 650 Mcf/d Oil: Initial open flow 122 Bbl/d
Final open flow 250 Mcf/d Final open flow 4 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 975 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

(Continue on reverse side)

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

Stage #1	4368 - 4994'	700 MCF NZ
Stage #2	4030 - 4368'	" "
Stage #3	3500 - 4030'	" "

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	35	SALT WATER
SANDSTONE & SHALE			35	1100	SALT WATER
SANDSTONE & SHALE			1100	1820	SALT WATER
KEENER			1822	1844	GAS
INJUN			1890	2058	OIL, GAS
SQUAW			2082	2100	OIL, GAS
BEREA			2466	2470	GAS
GORDON			2852	2862	GAS
SHALE & SILTSTONE			2864	3568	OIL, GAS
BALLTOWN			3570	3600	OIL, GAS
RILEY SEQUENCE			4050	4240	OIL, GAS
SHALE			4240	4690	OIL, GAS
BENSON			4692	4696	GAS
SHALE			4697	5018 T.D.	OIL, GAS

(Attach separate sheets as necessary)

Colburn Energy Corp.

Well Operator

By:

John F. Amale

Date:

7/1/84

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."

RECEIVED

OCT 29 1984

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date: 1 October, 1984

Operator's Well No. 1

API Well No. 47 - 085 - 6819
State County Permit

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Colburn Energy Corporation DESIGNATED AGENT WARREN R. HAUGHT
Address 6320 Augusta Dr. Address Rt 3, Box 14
Springfield, VA 22150 Smithsville, WVA 26178

GEOLOGICAL TARGET FORMATION: Devonian Shale (Marcellus) Depth 5025 feet
Perforation Interval 4368-4994, 4030-4368 feet
3500-480

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE	TIME	END OF TEST-DATE	TIME	DURATION OF TEST
<u>4/26/84</u>	<u>7:00 PM</u>	<u>4/27/84</u>	<u>7:00 PM</u>	<u>24 HRS</u>
TUBING PRESSURE	CASING PRESSURE	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
<u>N/A</u>	<u>975 psi</u>	<u>80 psi</u>	<u>N/A</u>	
OIL PRODUCTION DURING TEST	GAS PRODUCTION DURING TEST	WATER PRODUCTION DURING TEST & SALINITY		
<u>63</u> bbls.	<u>450</u> Mcf	bbls. ppm.		
OIL GRAVITY	PRODUCING METHOD (Flowing, pumping, gas lift, etc.)			
<u>°API</u>	<u>Flowing</u>			

GAS PRODUCTION		
MEASUREMENT METHOD		POSITIVE CHOKE
FLANGE TAP <input checked="" type="checkbox"/>	PIPE TAP <input type="checkbox"/>	CRITICAL FLOW PROVER <input type="checkbox"/>
L-10 <input type="checkbox"/>	<input checked="" type="checkbox"/>	
ORIFICE DIAMETER <u>3/8"</u>	PIPE DIAMETER (INSIDE DIAM.) <u>4 1/2"</u>	NOMINAL CHOKE SIZE - IN. <u>1/64"</u>
DIFFERENTIAL PRESSURE RANGE <u>0-27</u>	MAX. STATIC PRESSURE RANGE <u>800 lbs</u>	PROVER & ORIFICE DIAM. - IN. <u>1/4"</u>
DIFFERENTIAL <u>0-27</u>	STATIC	GAS GRAVITY (Air=1.0)
GAS GRAVITY (Air=1.0) <u>UNK</u>	FLOWING TEMPERATURE	MEASURED ESTIMATED
24 HOUR COEFFICIENT	GAS TEMPERATURE °F	
	24 HOUR COEFFICIENT	
	PRESSURE - psia	

TEST RESULTS			
DAILY OIL	DAILY WATER	DAILY GAS	GAS-OIL RATIO
<u>63</u> bbls.	<u>0</u> bbls.	<u>450</u> Mcf.	<u>7.1:1</u> SCF/STB

Colburn Energy Corp
Well Operator

By: John A. Arnold
Its: Production Manager

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

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OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 85-6819

Oil or Gas Well _____
(KIND)

Company Haight Inc.
 Address _____
 Farm Warren R. Haight
 Well No. H-1442
 District Murphy County Ritchie
 Drilling commenced 4-16-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water None - Dusted feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Jim Melott / M. Hedrick / J. Bunner

Remarks: Haight Inc. Rig #19 Tol Puster Alpha Anchor
on 4-17-84 ran 1163 foot of 8 5/8" casing
Haight Inc. ran 175 sacks of Cement
Plus mix. 3221 foot deep at time of visit

4-19-84
DATE

(1908 top of Rig line)
Samuel N. Hersman
 DISTRICT WELL INSPECTOR

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

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JUL 11 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6819

Oil or Gas Well _____
(KIND)

Company <u>Haught Inc.</u> Address _____ Farm <u>Warren R. Haught</u> Well No. <u>H-1442</u> District <u>Murphy</u> County <u>Ritchie</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____
	16			Size of _____
	13			Depth set _____
	10			Perf. top _____
	8 1/4			Perf. bottom _____
	6 5/8			Perf. top _____
	5 3/16			Perf. bottom _____
	3			
	2			
Liners Used _____				

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
NAME OF SERVICE COMPANY _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

STATUS REPORT

Remarks: *Make special check of location and access road road to have cross ditches cut in it above location. location to be re-mulched - seeded and limed cross ditches to be added in access road and one diversion ditch to be cut on location*

7-3-84
DATE

Samuel H. Hersman
DISTRICT WELL INSPECTOR

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

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AUG 6 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 085-6819

Oil or Gas Well _____
(KIND)

Company <u>Haught's</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm _____	16			Kind of Packer _____
Well No. <u>H-1442</u>	13			
District _____ County <u>Pitchie</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			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 _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Status Report

visit site, to look at Reclamation on Request of Contractor that done the work (No good) poor job they have to come back and Redo it.

7-30-81
DATE

Mike Underwood
DISTRICT WELL INSPECTOR

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE _____
ELEVATION 1040
DISTRICT MURPHY
QUADRANGLE HARRISVILLE 7.5
COUNTY RITCHIE

API# 47- 085 - 6819 (12-19-83)
OPERATOR HAUGHT, INC
TELEPHONE _____
FARM WARREN HAUGHT
WELL # H-1442

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____

TARGET FORMATION _____ DATE APPLICATION RECEIVED _____

DATE STARTED _____

LOCATION _____ NOTIFIED 4-15-84 DRILLING COMMENCED 4-16-84

WATER DEPTHS NONE FOUND, _____, _____, _____

COAL DEPTHS _____, _____, _____, _____

CASING

Ran 1163 feet of 8 5/8" "pipe on 4-17-84 with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

RECORDED
DEPT. OF ENERGY
OIL AND GAS

TD _____ feet on _____

PLUGGING

MAY 6 1986

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

Date Released 5-2-86

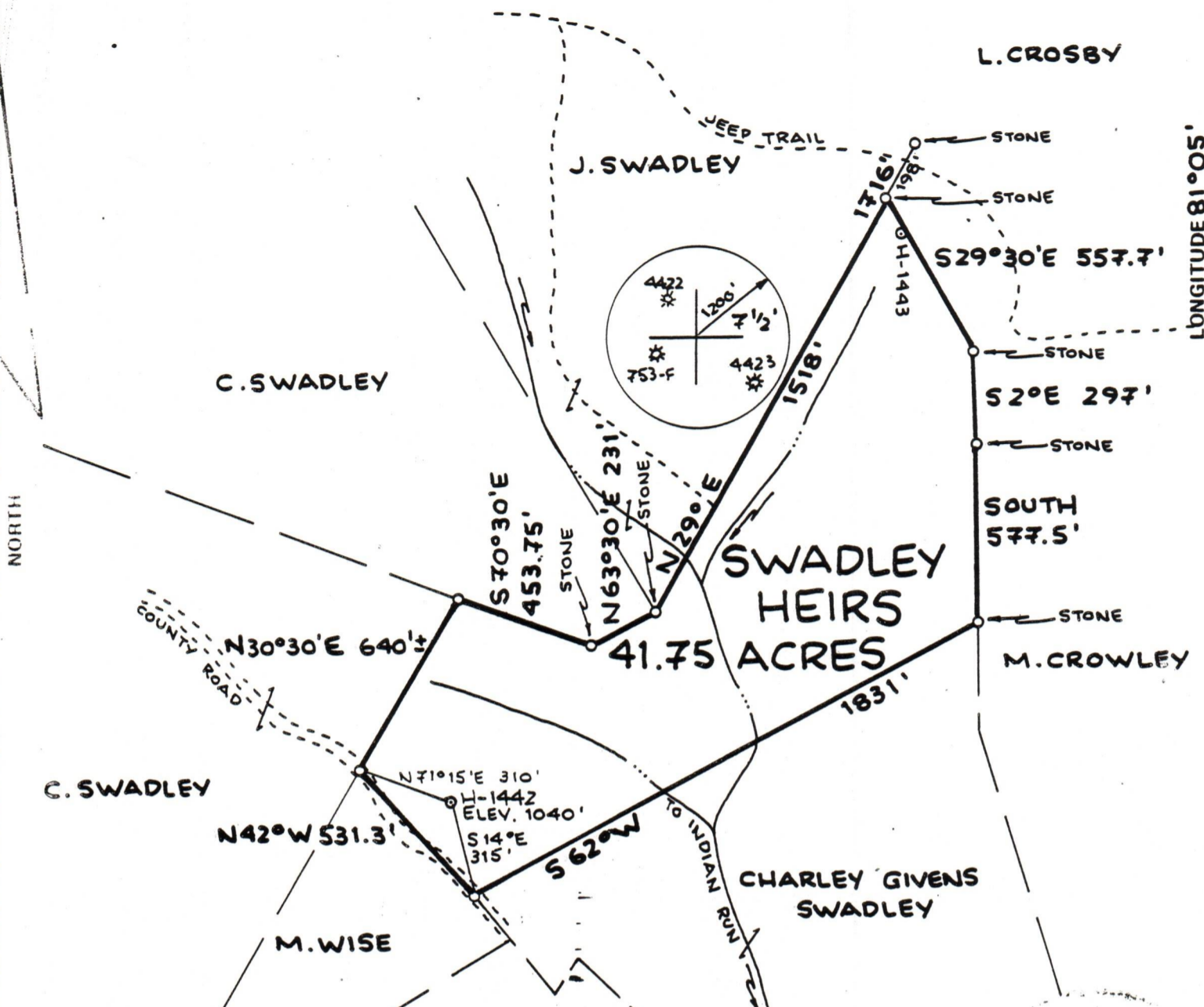
Samuel M. Hersman
Inspector's signature

API# 47 085 - 6819

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	4-19-84		Visit - Pick up casing report	
2	7-3-84		Visit - Check reclamation	
3	5-2-86		Make final inspection	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



FILE NO. _____
 DRAWING NO. _____
 SCALE **1"=500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **ROAD INT. ELEV. 1182'**

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 D. [Signature]*
 R.P.E. _____ L.L.S. **551**

PLACE SEAL HERE

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



DATE **4 NOVEMBER**, 19 **83**
 OPERATOR'S WELL NO. **H-1442**
 API WELL NO. _____
47 - **085** - **6819**
 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 **1040'** WATER SHED **INDIAN RUN**
 DISTRICT **MURPHY** COUNTY **RITCHIE**
 QUADRANGLE **HARRISVILLE 7 1/2' QUAD.**
 SURFACE OWNER **WARREN R. HAUGHT** ACREAGE **41.75**
 OIL & GAS ROYALTY OWNER **SWADLEY HEIRS** LEASE ACREAGE **41.75**
 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 **LOWER DEVONIAN SHALE** ESTIMATED DEPTH **5000'**
 WELL OPERATOR **HAUGHT, INC.** DESIGNATED AGENT **WARREN R. HAUGHT**
 ADDRESS **4424 EMERSON AVENUE** ADDRESS **4424 EMERSON AVENUE**
PARKERSBURG, W.VA. 26104 **PARKERSBURG, W.VA. 26104**

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AUG 24 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES

Date 7-1-84

Operator's Well No. 1

State of West Virginia

Department of Mines Oil and Gas Division

Farm Swadley

API No. 47 - 085 - 6819

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED

OIL & GAS DIVISION

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

LOCATION: Elevation: 1113Ft. Watershed Indian Run District: Murphy County Ritchie Quadrangle Harrisville

COMPANY Colburn Energy Corporation

ADDRESS 6320 Augusta Dr. Springfield, VA 22150

DESIGNATED AGENT Warren R. Haught

ADDRESS Rt 3 Box 14 Smithville, WVA 26178

SURFACE OWNER Warren Haught

ADDRESS Rt 3 Box 14 Smithville, WVA 26178

MINERAL RIGHTS OWNER Haught Inc.

ADDRESS 4424 Emerson Ave., Parkersburg, WVA 26104

OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman

ADDRESS P.O. Box 66 Smithville WVA 26173

PERMIT ISSUED Nov. 4, 1983

DRILLING COMMENCED 4-16-84

DRILLING COMPLETED 4-20-84

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 like 20-16 Cond., 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 Depth 5025 feet

Depth of completed well 5018 feet Rotary X / Cable Tools

Water strata depth: Fresh 110 feet; Salt NA feet

Coal seam depths: NA Is coal being mined in the area? NA

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3550-4800 feet

Gas: Initial open flow 650 Mcf/d Oil: Initial open flow 122 Bbl/d

Final open flow 250 Mcf/d Final open flow 4 Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 975 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

(Continue on reverse side)

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

Stage #1	4368 - 4994'	700 MCF NZ
Stage #2	4030 - 4368'	" "
Stage #3	3500 - 4030'	" "

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	35	SALT WATER
SANDSTONE & SHALE			35	1100	SALT WATER
SANDSTONE & SHALE			1100	1820	SALT WATER
KEENER			1822	1844	GAS
INJUN			1890	2058	OIL, GAS
SQUAW			2082	2100	OIL, GAS
BEREA			2466	2470	GAS
GORDON			2852	2862	GAS
SHALE & SILTSTONE			2864	3568	OIL, GAS
BALLTOWN			3570	3600	OIL, GAS
RILEY SEQUENCE			4050	4240	OIL, GAS
SHALE			4240	4690	OIL, GAS
BENSON			4692	4696	GAS
SHALE			4697	5018 T.D.	OIL, GAS

(Attach separate sheets as necessary)

Colburn Energy Corp.

Well Operator

By:

Date:

John F. Arnold
7/1/84

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."



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MAY 28 1985

OIL & GAS DIVISION
DEPT. OF MINES

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

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Haight Oil Producing Corporation (the transferor) to Colburn Energy Corporation (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) John F. Arnold, (address) 1702 Forest Hills Drive, Vienna, WV 26105 is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. Certificate of Deposit for \$50,000.00 at First American Bank of Virginia, McLean, Virginia, #020-0726805

(Transferee) Colburn Energy Corporation
By Deborah J. Colburn
Its Vice President

Taken, subscribed and sworn to before me this 21 day of May 19 85
Notary Public Eugenie Patoka
My commission expires My Commission Expires March 26, 1989

(Transferor) Haight Oil Producing Corp.
By Mark S. Mason
Its Coordinator of Operations & Admin

Taken, subscribed and sworn to before me this 23 day of May 19 85
Notary Public Deborah L. Conner
My commission expires 5-3 19 94

ACCEPTED THIS 13 DAY OF Jun, 19 85
BY: [Signature]
Administrator-Office of Oil and Gas

Form IV-77
Reverse
(9-84)

21500 10325
74 41

API (Permit) Number :

Farm Name

Operator's Well Number

47 -085 -6819

Swadley

One

47 -085 -6868

Higginbotham

One

47 - 73 -1392

Lavina Dye

One

47 -073 - 0937 REN

Matteson/Pierce

One

47 -085 -6828

Crane

One