

100
8-22-80

Date: August 19, 1980

Operator's Well No. H-1057
API Well No. 27-073-0939
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: 978' Watershed: Ohio River
District: Union County: Pleasants Quadrangle: Raven Rock, W.V. 7 1/2

WELL OPERATOR Haught, Inc.
Address Route 3, Box 14
Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Jimmie Brammer
Address Rt. 3
St. Marys, W.V. 26170

COAL OPERATOR None
Address _____

ACREAGE 49
SURFACE OWNER Jimmie Brammer
Address Rt. 3
St. Marys, W.V. 26170
ACREAGE 49

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____
RECEIVED
AUG 20 1980
OIL & GAS DIVISION
DEPT. OF MINES

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy
Address P.O. Box 173
Middlebourne, W.V. 26149

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 6, 1980, to the undersigned well operator from Jimmie Brammer
[If said deed, lease, or other contract has been recorded:]

Recorded on May 9, 1980, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in Deed _____ Book 155 at page 608. 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

Haught, Inc.
Well Operator
By Warren R. Haught
President

BLANKET BOND

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Haught, Inc.
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Shale
Estimated depth of completed well, 4000 feet Rotary X / Cable tools _____
Approximate water strata depths: Fresh, 75 feet; salt, _____ feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes _____ No X

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		
Conductor								Kinds
Fresh water	8 5/8	K-55	20#	X		200'	200'	75 sacks
Coal								Sizes
Intermediate								
Production	4 1/2	J-55	10.5#	X			4000'	100 sacks
casing								Depths set
Liners								Perforations:
								Top Bottom

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-3, "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 § 22-4-3a 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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 4-29-81.

Thomas E. Huzzey
Deputy Director - Oil & Gas Division

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 _____

BLANKET BOARD

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name HAUGHT, INC Designated Agent WARREN R. HAUGHT
Address SMITHVILLE WVA 26362 Address SMITHVILLE, WVA
Telephone 477-3333 Telephone 477-3333
Landowner JAMMIE F. BRAMMER Soil Cons. District UPPER OHIO
Revegetation to be carried out by WARREN R. HAUGHT (Agent)
This plan has been received by Upper Ohio SCD. All corrections
and additions become a part of this plan. 8/20/80 Kenneth R. Mason
(Date) (SCD Agent)

Access Road	Location
Structure <u>DITCH RELIEF CULV(A)</u>	Structure <u>DIVERSION DITCH (1)</u>
Spacing _____	Material _____
Page Ref. Manual <u>1:8</u>	Page Ref. Manual <u>1:10</u>
Structure <u>Rip Rap (B)</u>	Structure <u>Rip-Rap (2)</u>
Spacing _____	Material <u>ROCK OR STONE</u>
Page Ref. Manual <u>N/A</u>	Page Ref. Manual <u>N/A</u>
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

RECEIVED

All structures should be inspected regularly and repaired if necessary.

AUG 28 1980

Revegetation

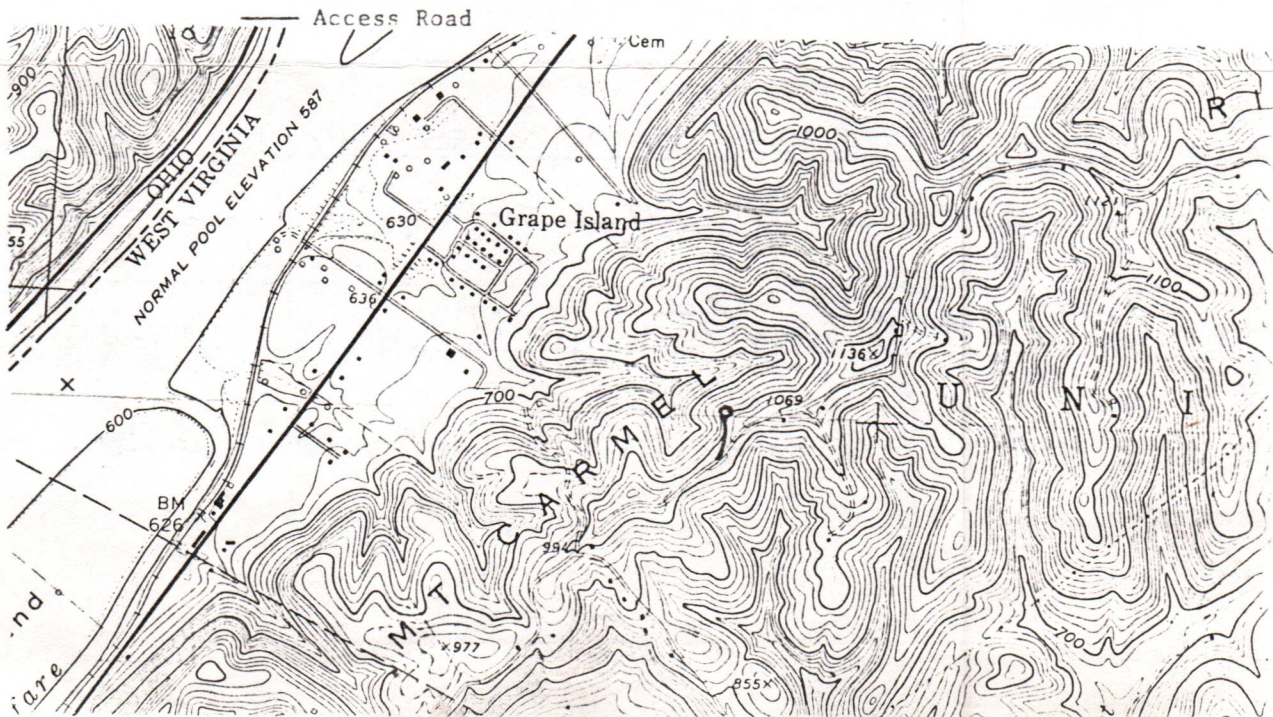
Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>HAY OR STRAW 2</u> Tons/Acre	Mulch <u>HAY OR STRAW 2</u> Tons/Acre
Seed* <u>Ky 31 Fescue 35</u> lbs/acre	Seed* <u>ORCHARD GRASS 30</u> lbs/acre
<u>Red Top 5</u> lbs/acre	<u>CLOVER 10</u> lbs/acre

OIL & GAS DIVISION
DEPT. OF MINES

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

Attach or photocopy section of involved Topographic map. Quadrangle RAVEN ROCK.

Legend: ⊕ Well Site



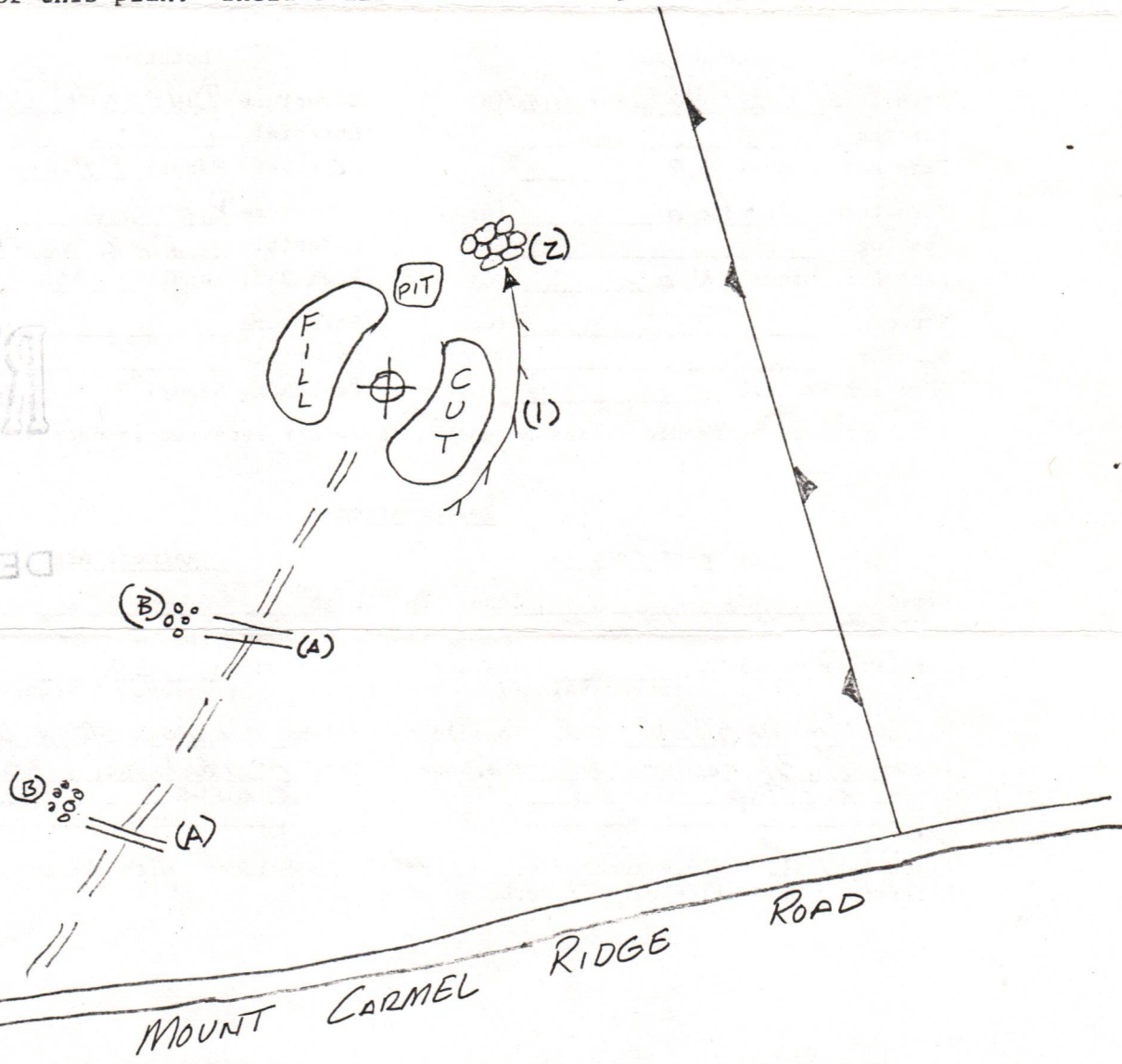
Well Site Plan

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

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

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 APR 23 1980
 DIVISION OF OIL & GAS
 DEPT. OF MINES



Comments: AVERAGE GRADE OF ACCESS ROAD 10%
BRUSH & TREES WILL BE CUT & PILED.

Signature: Warren R. Haught Smithville, WV 26178 477-3333
 Agent Address Phone Number

Please request landowners cooperation to protect new seeding for one growing season.

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MAR - 4 1981

Date: January 26, 19 81

Operator's Well No. H-1057

API Well No. 47 - 073 - 0939
State County Permit

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

WELL OPERATOR'S REPORT 63

OF
DRILLING, REABLING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 978' / Watershed: Ohio River
District: Union / County: Pleasants / Quadrangle: Raven Rock, W.V. 7 1/2'
Jimmie Brammer H-1057

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

PERMITTED WORK: Drill / Convert _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____

PERMIT ISSUED ON August 29, 19 80 / OIL & GAS INSPECTOR FOR THIS WORK:
Name Phillip L. Tracy
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
Address P.O. Box 173
Middlebourne, W.V. 26149

GEOLOGICAL TARGET FORMATION: Shale / Depth 3250 to 3905 feet
Depth of completed well, 3905 feet / Rotary / Cable Tools _____
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: None / Is coal being mined in the area? No
Work was commenced September 6, 19 80, and completed September 13, 19 80

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	K-55	20#	X		1030'	1030'	160 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			3832'	420 sacks	Depths set
Tubing									
Liners									Perforations:
									Top
									Bottom
									3422
									3716

OPEN FLOW DATA

Producing formation Shale / Pay zone depth 3250 to 3905 feet
Gas: Initial open flow, _____ Mcf/d / Oil: Initial open flow, _____ Bbl/d
Final open flow, 450 Mcf/d / Final open flow, 4 Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 320 psig (surface measurement) after 12 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 / 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

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

Nitrogen Fraced by B.J. Hughes Production Services 9/16/80
 900,000 SCF. 500 Gal. Acid.

Perforations: 21--3422--3716

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	80	
Sand			80	100	
Shale			100	105	
Sand			105	121	
Red Rock			121	126	
Shale			126	130	
Red Rock			130	138	
Sand			138	170	
Red Rock			170	185	
Sand			185	220	
Shale			220	240	
Red Rock			240	260	
Sand			260	285	
Red Rock			285	310	
Shale			310	325	
Red Rock			325	340	
Sand			340	360	
Red rock			360	370	
Sand			370	390	
Red Rock			390	400	
Shale/Sand			400	560	
Red Rock			560	570	
Sand/Shale			570	657	
Red Rock			657	671	
Sand			671	683	
Red Rock			683	711	
Sand/Shale			711	776	
Red Rock			776	790	
Shale			790	815	
Red Rock			815	835	
Sand/Shale			835	1290	
Shale			1290	1375	
Sand			1375	1385	
Shale			1385	1470	
Sand & Shale			1470	1480	
Shale			1480	1512	
Sand			1512	1545	
Shale			1545	1570	
Sand/Shale			1570	2055	
Shale			2055	2170	
Sand			2170	2267	
Shale			2267	2330	
Sand			2330	2380	
Shale			2380	2400	
Sand/Shale			2400	2470	
Shale			2470	2597	
Sand/Shale			2597	2720	
Shale			2720	2830	
Sand			2830	2950	
Shale			2950	3125	
Sand			3125	3250	
Shale			3250	3674	
Sand/Shale			3674	3685	
Shale			3685	3905	T.D.

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

Haught, Inc.

Well Operator

By *Walter R. Haught*

Its President

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

RECEIVED
SEP 16 1980

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-939

Oil or Gas Well _____
(KIND)

Company Wright Inc.
 Address Smithville W Va.
 Farm James Brann
 Well No. H 1054
 District Union County Plawet
 Drilling commenced _____
 Drilling completed _____ Total depth 1987
 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			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4	<u>1023</u>	<u>1023</u>	
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 7/8 SIZE 1023 No. FT 9-988 Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: _____

Sept 10, 80
DATE

Phil Tracy 512
DISTRICT WELL INSPECTOR

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

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MAR - 8 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-0939

Oil or Gas Well _____
(KIND)

Company Haight INC
 Address Smithville w. Va.
 Farm Jimmie Bramer
 Well No. H-1057
 District union County pleasant
 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			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			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 _____

Remarks: Final Inspection accepted

3-5-82
DATE

R.A. Lowther 512
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines
Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

March 16, 1982

Haight, Inc.
Route 3, Box 14
Smithville, West Virginia 26178

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

<u>PERMIT NO.</u>	<u>FARM & WELL NO.</u>	<u>DISTRICT</u>
PLEA-871	Jessie L. Taylor #H-1009	McKim
PLEA-0928	Lewis E. Snider #H-1049	MCKim
→ PLEA-0939	Jimmie Brammer #H-1057	Union
PLEA-0942	Jack Waugh #H-1073	Union
PLEA-0943	Jack Waugh #H-1074	Union
PLEA-0990	Paul M. Wilson, et al #H-1116	Washington
PLEA-1020	Cecil Lee Fetty #H-1076	McKim
PLEA-1038	Clifford Cunningham #H-1141	Washington
PLEA-1067	Watson-Haas Lumber Co. #H-1185	Washington
PLEA-1142	Benson D. Ward #H-1237	McKim

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved..... ..

Very truly yours,

Fred Burdette

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-073-0939</u>														
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA <u> </u> Category Code														
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>3905'</u> feet														
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<table style="width:100%; border: none;"> <tr> <td style="border: none;"><u>Haught, Inc.</u> Name</td> <td style="border: none; text-align: right;">Seller Code</td> </tr> <tr> <td style="border: none;"><u>4424 Emerson Avenue</u> Street</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><u>Parkersburg,</u> <u>Wv</u> <u>26104</u> City State Zip Code</td> <td style="border: none;"></td> </tr> </table>	<u>Haught, Inc.</u> Name	Seller Code	<u>4424 Emerson Avenue</u> Street		<u>Parkersburg,</u> <u>Wv</u> <u>26104</u> City State Zip Code									
<u>Haught, Inc.</u> Name	Seller Code														
<u>4424 Emerson Avenue</u> Street															
<u>Parkersburg,</u> <u>Wv</u> <u>26104</u> City State Zip Code															
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<table style="width:100%; border: none;"> <tr> <td style="border: none;"><u>Union District</u> Field Name</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><u>Pleasants County</u> <u>WV</u> County State</td> <td style="border: none;"></td> </tr> </table>	<u>Union District</u> Field Name		<u>Pleasants County</u> <u>WV</u> County State											
<u>Union District</u> Field Name															
<u>Pleasants County</u> <u>WV</u> County State															
(b) For OCS wells:	<table style="width:100%; border: none;"> <tr> <td style="border: none;"><u>N/A</u> Area Name</td> <td style="border: none; text-align: right;">Block Number</td> </tr> <tr> <td style="border: none; text-align: center;">Date of Lease: <table style="margin: auto; border: none;"> <tr> <td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td> </tr> <tr> <td style="border: none;">Mo.</td><td style="border: none;">Day</td><td style="border: none;">Yr.</td><td colspan="2" style="border: none;"></td> </tr> </table> </td> <td style="border: none; text-align: right;">OCS Lease Number</td> </tr> </table>	<u>N/A</u> Area Name	Block Number	Date of Lease: <table style="margin: auto; border: none;"> <tr> <td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td> </tr> <tr> <td style="border: none;">Mo.</td><td style="border: none;">Day</td><td style="border: none;">Yr.</td><td colspan="2" style="border: none;"></td> </tr> </table>						Mo.	Day	Yr.			OCS Lease Number
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Mo.	Day	Yr.													
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Jimmie Brammer H-1057</u>														
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>Devonian Shale</u>														
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<table style="width:100%; border: none;"> <tr> <td style="border: none;"><u>Columbia Gas Transmission Corp.</u> Name</td> <td style="border: none; text-align: right;">Buyer Code</td> </tr> </table>	<u>Columbia Gas Transmission Corp.</u> Name	Buyer Code												
<u>Columbia Gas Transmission Corp.</u> Name	Buyer Code														
(b) Date of the contract:	<table style="border: none;"> <tr> <td style="border: none;">Applied For</td> <td style="border: none;"> </td><td style="border: none;"> </td><td style="border: none;"> </td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">Mo.</td><td style="border: none;">Day</td><td style="border: none;">Yr.</td> </tr> </table>	Applied For					Mo.	Day	Yr.						
Applied For															
	Mo.	Day	Yr.												
(c) Estimated annual production:	<u>18</u> MMcf.														
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table style="width:100%; border: none;"> <tr> <td style="border: none; width:25%;"></td> <td style="border: none; width:25%;"></td> <td style="border: none; width:25%;"></td> <td style="border: none; width:25%;"></td> </tr> <tr> <td style="border: none;">(a) Base Price (\$/MMBTU)</td> <td style="border: none;">(b) Tax</td> <td style="border: none;">(c) All Other Prices [Indicate (+) or (-).]</td> <td style="border: none;">(d) Total of (a), (b) and (c)</td> </tr> <tr> <td style="border: none; text-align: center;">-.-.-.-</td> <td style="border: none; text-align: center;">-.-.-.-</td> <td style="border: none; text-align: center;">-.-.-.-</td> <td style="border: none; text-align: center;">-.-.-.-</td> </tr> </table>					(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	-.-.-.-	-.-.-.-	-.-.-.-	-.-.-.-		
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-.-.-.-	-.-.-.-	-.-.-.-	-.-.-.-												
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table style="width:100%; border: none;"> <tr> <td style="border: none; text-align: center;">5.268</td> <td style="border: none; text-align: center;">.684</td> <td style="border: none; text-align: center;">.01</td> <td style="border: none; text-align: center;">5.962</td> </tr> </table>	5.268	.684	.01	5.962										
5.268	.684	.01	5.962												
9.0 Person responsible for this application:	<table style="width:100%; border: none;"> <tr> <td style="border: none; width:60%;"><u>Warren R. Haught</u> Name</td> <td style="border: none; width:40%;"><u>President</u> Title</td> </tr> <tr> <td style="border: none;"><i>Warren R. Haught</i> Signature</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;"><u>May 27, 1982</u> Date Application is Completed</td> <td style="border: none; text-align: right;"><u>424-5075</u> Phone Number</td> </tr> </table>	<u>Warren R. Haught</u> Name	<u>President</u> Title	<i>Warren R. Haught</i> Signature		<u>May 27, 1982</u> Date Application is Completed	<u>424-5075</u> Phone Number								
<u>Warren R. Haught</u> Name	<u>President</u> Title														
<i>Warren R. Haught</i> Signature															
<u>May 27, 1982</u> Date Application is Completed	<u>424-5075</u> Phone Number														

Agency Use Only
Date Received by Juris. Agency JUN 3 1982
Date Received by FERC

PARTICIPANTS:

DATE:

DEC. 8 1982

BUYER-SELLER CODE

WELL OPERATOR:

Haught, Inc.

FIRST PURCHASER:

~~Consolidated Gas Supply Corp.~~

004228

OTHER:

Columbia Gas Trans.

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

82 0603-107-073-0939

Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 7.6
- 2. IV-1 Agent Warren R. Haught
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: 9. 6. 80 Date completed 9. 13. 80 Deepened _____
- (5) Production Depth: 3250-3905
- (5) Production Formation: Shale
- (5) Final Open Flow: 45 MCF
- (5) After Frac. R. P. 320# 12 hr.
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (8) Line Pressure: _____ PSIG from Daily Report
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

7B

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Haught, Inc.

DESIGNATED AGENT Warren R. Haught

ADDRESS 4424 Emerson Avenue
Parkersburg, WV 26104

ADDRESS 4424 Emerson Avenue
Parkersburg, WV 26104

Gas Purchase Contract No. Applied For and Date _____
(Month, day and year)

Meter Chart Code _____

Name of First Purchaser Columbia Gas Transmission Corp.
P.O. Box 1273
(Street or P. O. Box)
Charleston, WV 25325
(City) (State) (Zip Code)

FERC Seller Code _____

FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 107 Category Code _____
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Warren R. Haught President
Name (Print) Warren R. Haught Title
Signature
4424 Emerson Avenue
Street or P. O. Box
Parkersburg Wv 26104
City State (Zip Code)
(304) 424-5075
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

Copies Mailed to Buyer -- First Class Mail

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978. (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA)

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JUN 3 1982

Date received by
Jurisdictional Agency

By [Signature]
Title _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION

Date May 27 1982

Operator's Well No. H-1057

API Well No. 073 0939
State WV 08

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
MGPA Section 157

DESIGNATED AGENT Warren R. Haught
ADDRESS 4424 Emerson Avenue
Parkersburg, WV 26104
LOCATION: Elevation 978'
Watershed Ohio River
Dist Union County Pleasants War Rave
Gas Purchase Contract No. Applied For
Meter Chart Code _____
Date of Contract _____

WELL OPERATOR Haught, Inc.
ADDRESS 4424 Emerson Avenue
Parkersburg, WV 26104
GAS PURCHASER Columbia Gas Transmission Corp.
ADDRESS P.O. Box 1273
Clarksburg, WV 26301

Date surface drilling began September 6, 1980

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$Pws = Pwh e^{(.01875)(SG)(D) / (Z)(T)}$$

Pws = Static Bottom Hole Pressure	Pws = 606
Pwh = Wellhead Pressure	Pwh = 320
SG = Specific Gravity	SG = .70
D = Depth to center of Perforation	D = 3569
Z = Average Compressibility Factor	Z = .95
T = Average Temperature °R	T = 555

AFFIDAVIT

I, Warren R. Haught, having been first sworn according to law, state that, I have calculate the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the port described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge any information not described in the application which is inconsistent with a conclusion that the well qualifies as high cost natural gas well.

Warren R. Haught

STATE OF WEST VIRGINIA,
COUNTY OF Ritchie, TO WIT

I, Lenna G. Haught, a Notary Public in and for the state and county aforesaid do certify that Warren R. Haught whose name is signed to the writing above, bearing date the 27th day of May, 1982 has acknowledged the same before me, in my county aforesaid

Given under my hand and official seal this 27 day of May, 1982
My term of office expires on the 18th day of May, 1986.

Lenna G. Haught
Notary Public

[NOTARIAL SEAL]

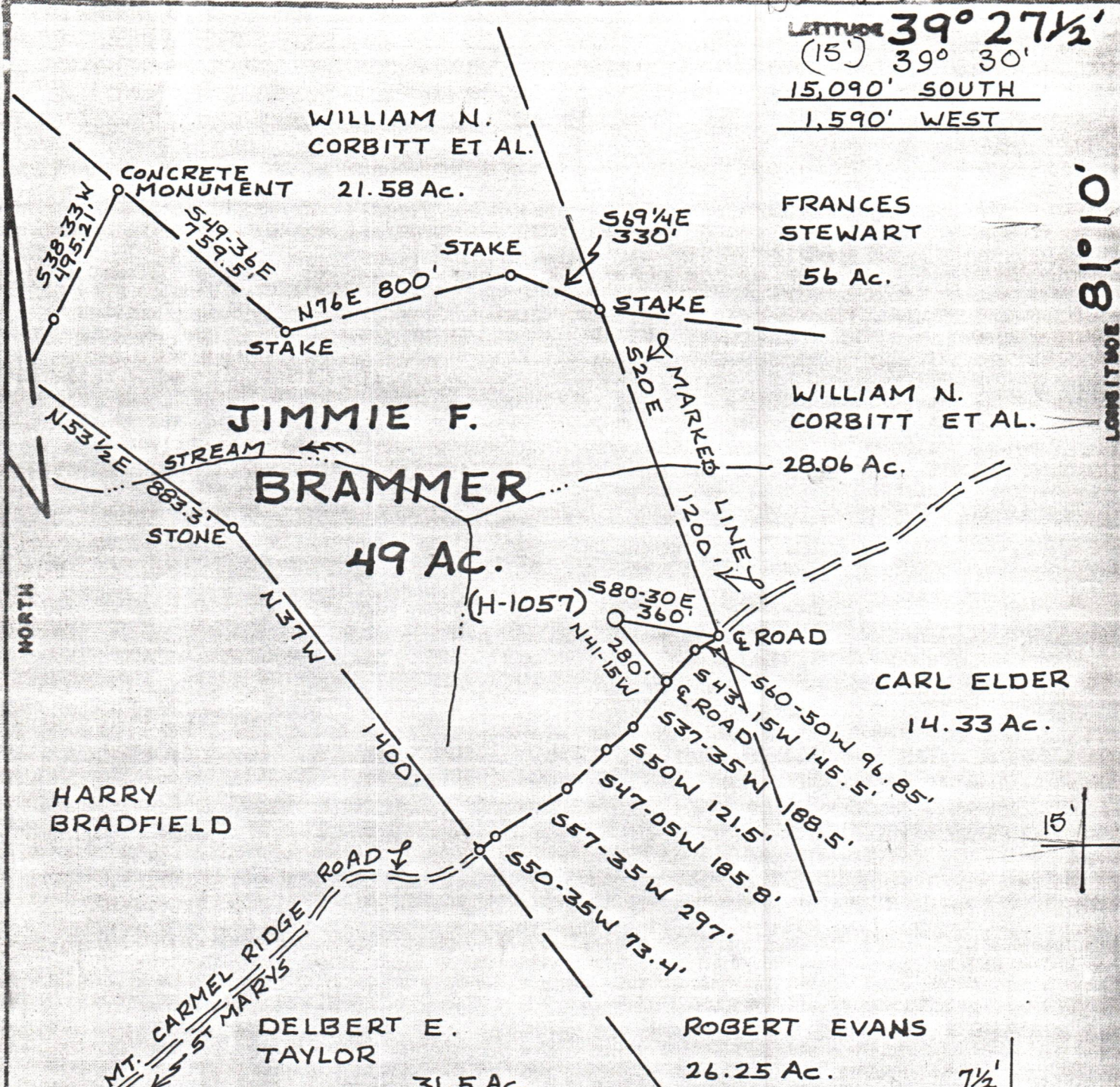


1-55

8-22-80

LETITUDE 39° 27 1/2'
(15') 39° 30'
15,090' SOUTH
1,590' WEST

LONGITUDE 81° 10'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD ELE. 1069'

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 K. Messer
 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 15 AUGUST, 1980
 OPERATOR'S WELL NO H-1057
 API WELL NO. 47-073-09390
 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 978' WATER SHED OHIO RIVER
 DISTRICT UNION COUNTY PLEASANTS
 QUADRANGLE RAVEN ROCK, W.VA. 7 1/2' QUAD. ST MARYS 15'
 SURFACE OWNER JIMMY BRAMMER ACREAGE 49
 OIL & GAS ROYALTY OWNER JIMMIE BRAMMER LEASE ACREAGE 49
 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) _____
 PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION SHALE ESTIMATED DEPTH 4000'
 WELL OPERATOR HAUGHT INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS SMITHVILLE, W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178