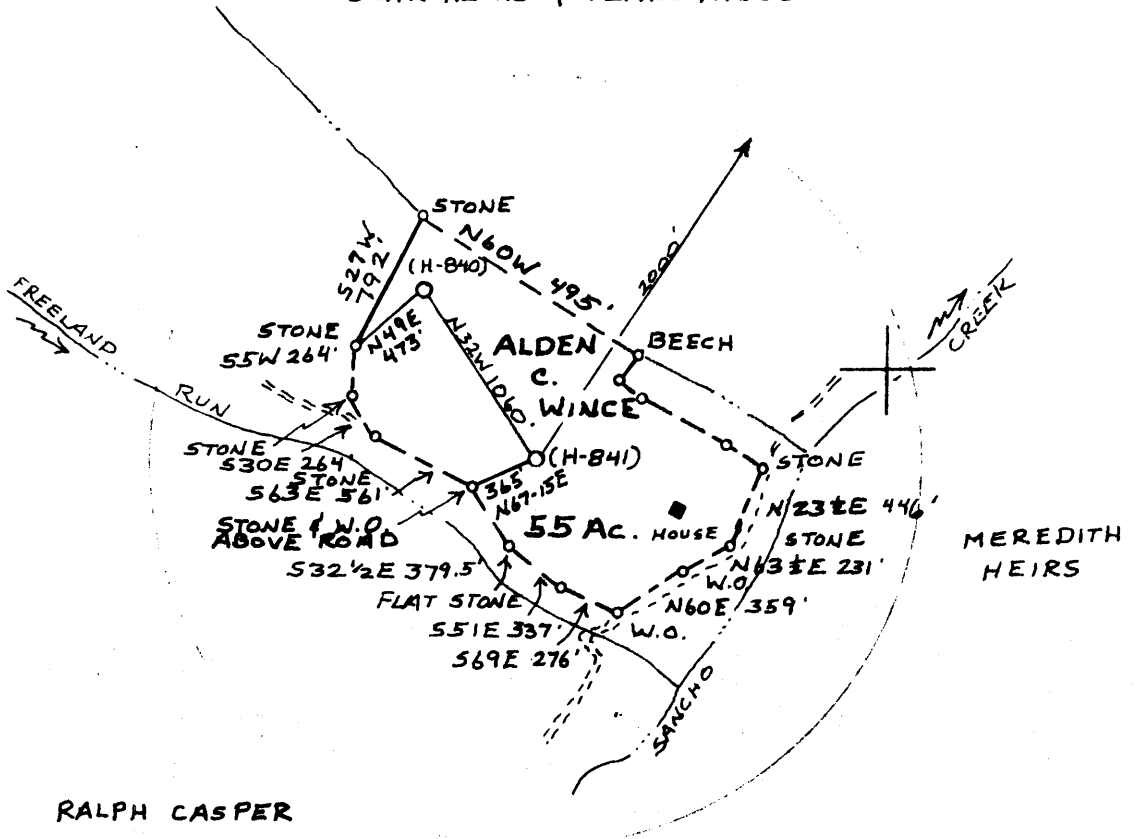


8560' S  
3450' W

~~151~~  
~~473W~~  
151  
0.65W  
4.50S

Longitude 80 55'

DOAK HEIRS & PEARL RIGGS



RALPH CASPER

WELL TYPE OIL & GAS PRODUCTION, SHALLOW  
 PROPOSED WORK DRILL  
 WATER SHED SANCHO CREEK  
 TARGET FORMATION GORDON  
 ESTIMATED DEPTH 3100'  
 API WELL NO. 47-095-0730  
 STATE COUNTY PERMIT

Fracture...   
 Redrill...   
 New Location   
 Drill Deeper   
 Abandonment   
 Source of Elevation B.M. ELEV. 732'  
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.  
*William R. Mossor* Minimum accuracy, one part in 200

Company GLENN L. HAUGHT & SONS  
SMITHVILLE, W.VA. 26178  
 AGENT WARREN HAUGHT  
 Address SMITHVILLE, W.VA. 26178  
 Farm ALDEN C. WINCE, ET AL  
 Tract \_\_\_\_\_ Acres 55 Lease No. \_\_\_\_\_  
 Well (Farm) No. H-841 Serial No. NW  
 Elevation (Spirit Level) 861' West Union 15'  
 Quadrangle MIDDLEBOURNE, W.VA. 7½'  
 County TYLER District MEADE  
 Surveyor or Engineer WILLIAM R. MOSSOR, L.L.S.  
 Surveyor's or Engineer's Registration No. 551  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 29 AUG. 1979 Scale 1" = 1000'

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

**WELL LOCATION MAP**  
 FILE NO. 095-0730

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 — Denotes one inch spaces on border line of original tracing.

SEP 24 1979

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

WELL OPERATOR'S REPORT #7  
OF  
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X in Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
LOCATION: Elevation: 732' Watershed: Sancho Creek  
District: Meade County: Tyler Quadrangle: Middlebourne, WV 7 1/2'  
WELL OPERATOR Glenn L. Haught & Sons Alden Wince H-841  
Address Smithville, WV 26178 DESIGNATED AGENT Warren R. Haught  
Address Smithville, WV 26178

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

PERMIT ISSUED ON September 7, 19 79, OIL & GAS INSPECTOR FOR THIS WORK:  
Name Phil Tracey  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Address Middlebourne, WV 26149  
Phone: 758-4573

GEOLOGICAL TARGET FORMATION: Big Injun Depth 1793 to 1940 feet  
Depth of completed well, 2025 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 September 14, 1979, and completed September 20, 1979

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	16"				X	20'	20'	10 sacks	Rinds
Fresh water	10 3/4"			X		314'	314'	175 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X			1768' (Basket comp.)		Depos set
Tubing									
Liners									Perforations:
									Top Bottom

FEB 13 1980

OIL & GAS DIVISION  
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1793 to 1940 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Final open flow, 350 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 8 hours  
Static rock pressure, 220 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.

Natural

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fres and salt water, coal, oil and ga
Clay			0	15	
Sand			15	30	
Red Rock			30	35	
Sand			35	55	
Red Rock			55	109	
Sand			109	128	
Shale			128	141	
Sand			141	157	
Red Rock			157	170	
Shale			170	190	
Sand			190	290	
Red Rock			290	320	
Shale			320	470	
Sand			470	495	
Shale			495	520	
Sand			520	530	
Shale			530	636	
Sand			636	674	
Shale			674	712	
Sand			712	736	
Red Rock			736	741	
Shale			741	870	
Sand			870	885	
Shale			885	1025	
Sand			1025	1035	
Shale			1035	1365	
Sand			1365	1411	
Shale			1411	1456	
Sand			1456	1480	
Shale			1480	1530	
Sand			1530	1589	
Shale			1589	1620	
Sand			1620	1640	
L. Lime			1640	1700	
B. Lime			1700	1793	Gas @ 1764-1793
Sand BT			1793	1940	
Shale			1940	2025	T. D. Gas @ 2007

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

Glenn L. Haught & Sons

Well Operator

By *Glenn L. Haught*

Its Partner

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: 732' Watershed: Sancho Creek  
District: Meade County: Tyler Quadrangle: Middlebourne, WV 7 1/2'

WELL OPERATOR Glenn L. Haught & Sons DESIGNATED AGENT Warren R. Haught  
Address Smithville, WV 26178 Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Alden C. Wince, et al COAL OPERATOR \_\_\_\_\_  
Address Middlebourn, WV 26149 Address \_\_\_\_\_

ACREAGE 55 COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER Alden C. Wince Name \_\_\_\_\_  
Address Middlebourne, WV 26149 Address \_\_\_\_\_

ACREAGE 55 Name \_\_\_\_\_  
FIELD SALE (IF MADE) TO: Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_  
COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Phil Tracey  
Address Middlebourne, WV 26149  
Phone: 758-4573

**RECEIVED**  
SEP - 6 1979

OIL & GAS DIVISION  
DEPT. OF MINES

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 August 31, 1977, to the undersigned well operator from Alden C. Wince and Ruth M. Wince

[If said deed, lease, or other contract has been recorded:]  
Recorded on October 11, 1977, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 213 at page 664. 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  
1515 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 342-3092

Glenn L. Haught & Sons  
Well Operator  
By Warren R. Haught  
Partner

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) Glenn L. Haught & Sons  
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 3100' feet Rotary X Cable tools \_\_\_\_\_  
Approximate water strata depths: Fresh, 50 feet; salt, \_\_\_\_\_ feet.  
Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ No X

CASING AND TUBING PROGRAM

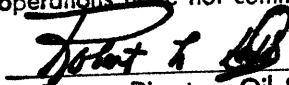
CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	K-55	20#	X		200'	200'	75 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10 1/2#	X			3100'	100 sacks	Depths set
casing									
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-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 § 22-4-3a 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 5-7-80.

  
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 \_\_\_\_\_  
Its \_\_\_\_\_