

11010'

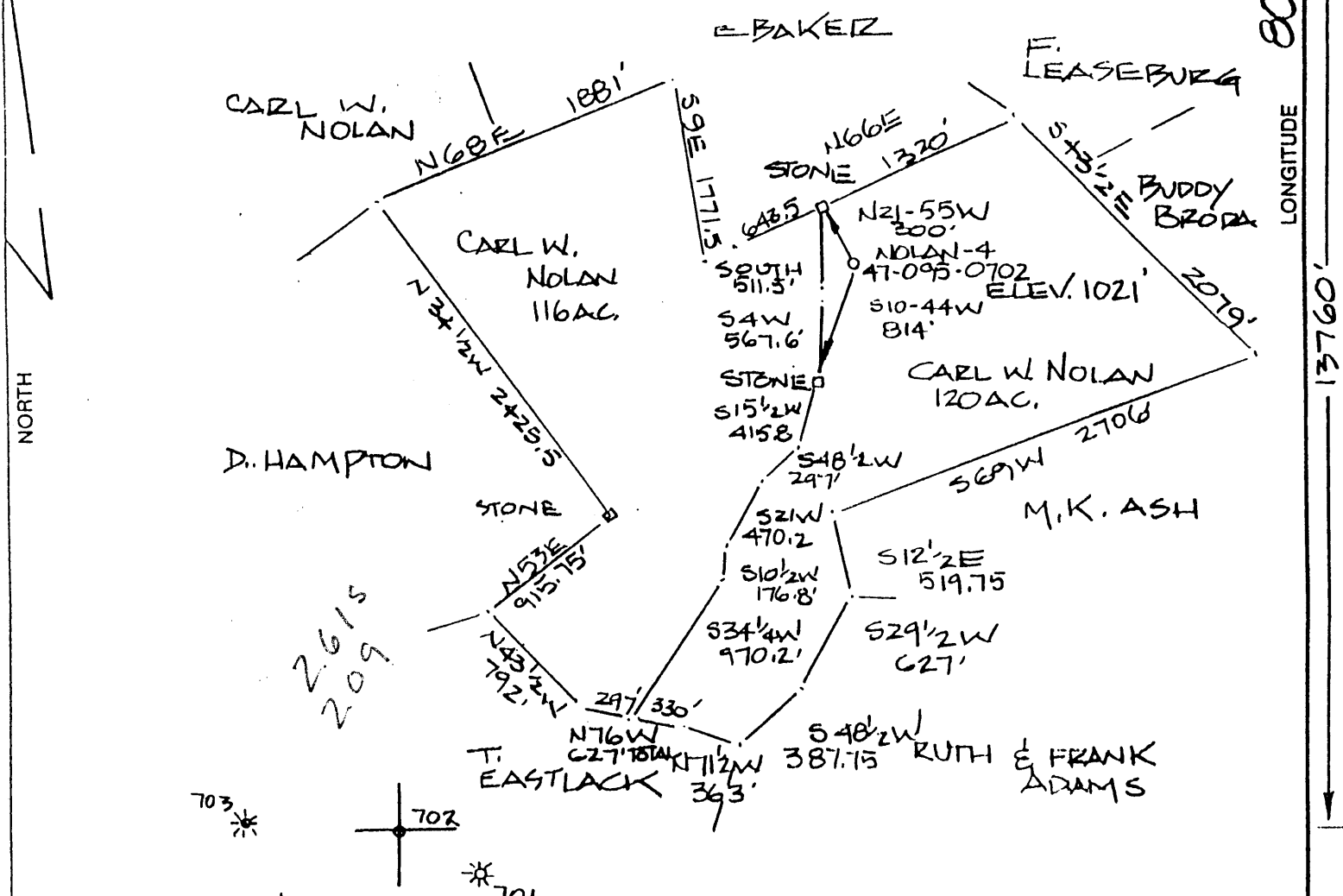
LATITUDE 39° 27' 30"

80° 50'

EDMINGTON

10960'

NORTH

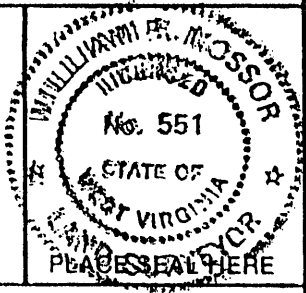


ORIGINALLY DRILLED  
AUG. 2, 1979  
DEPTH 3190'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1: 2500  
 PROVEN SOURCE OF ELEVATION ROAD INTER. ELEV. 1155'

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 ENFORCED BY THE DEPARTMENT OF ENERGY AND MINING.  
 (SIGNED) *[Signature]*  
 R.P.E. \_\_\_\_\_ L.L.S. 551



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 DIVISION OF OIL AND GAS



DATE 23 OCTOBER 19, 2000  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1021' WATER SHED CONAWAY RUN  
 DISTRICT CENTERVILLE COUNTY TYLER  
 QUADRANGLE SHIRLEY  
 SURFACE OWNER CARL W. NOLAN ACREAGE 120  
 OIL & GAS ROYALTY OWNER CARL W. NOLAN LEASE ACREAGE 236  
 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 BENSON ESTIMATED DEPTH 5500'  
 WELL OPERATOR SANCIO O&G CORP. DESIGNATED AGENT LOREN E. MAGLEY  
 ADDRESS BOX 179 ST. MARYS, WV 26170 ADDRESS BOX 179 ST. MARYS, WV 26170

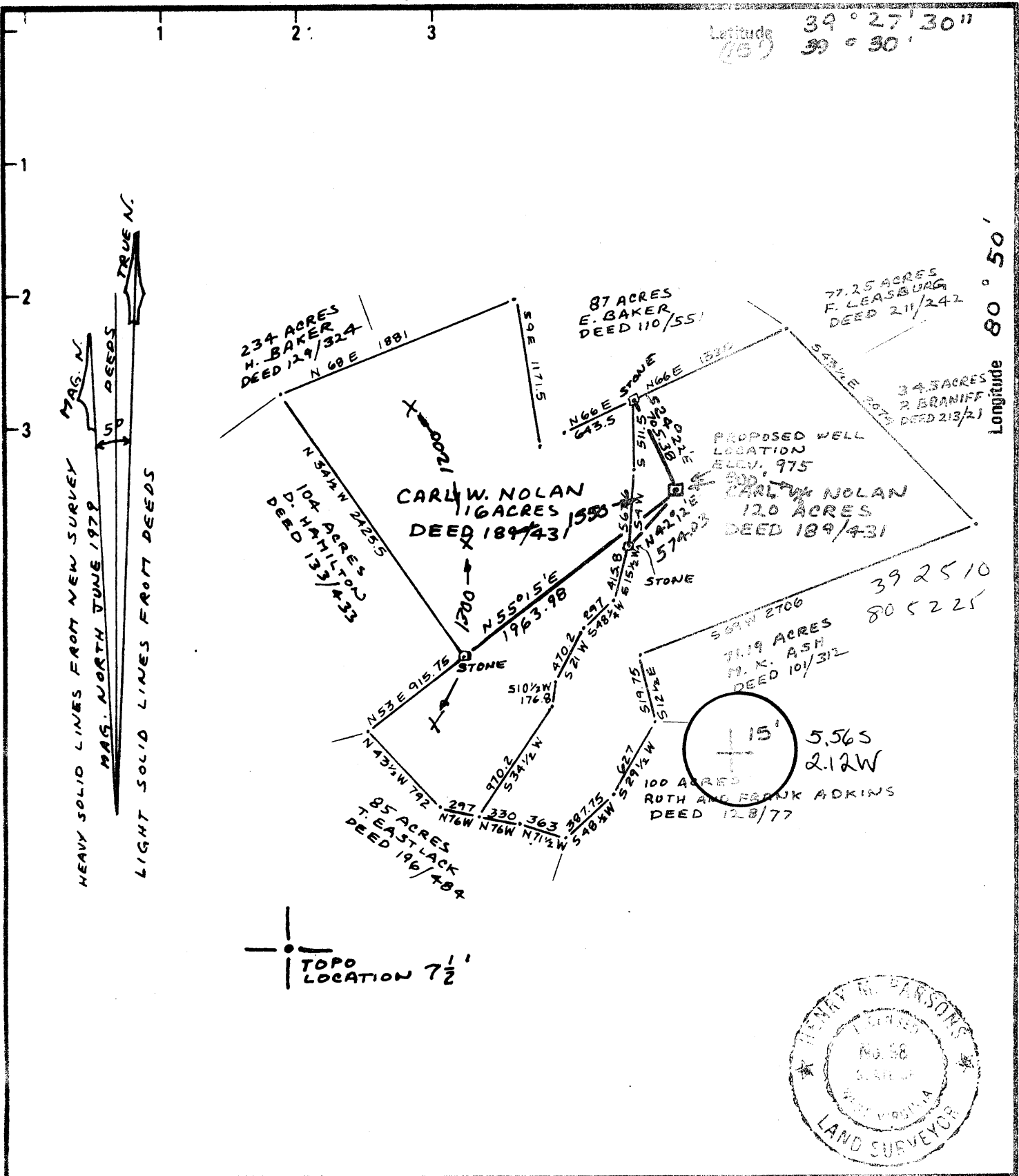
NOV 03 2000

COUNTY NAME TYLER

PERMIT 7020

Latitude 39° 27' 30" (5)  
39° 30'

Longitude 80° 50'



TOPO LOCATION 7 1/2'



New Location  Drill Deeper  Abandonment   
 Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500  
 Source of Elevation ELEVATIONS AT 2 ROAD INTERSECTIONS SHOWN AS 1121 AND 1155 NEAR THE HEAD OF WHEELER RUN ON THE MIDDLEBOURNE TOPO MAP  
 "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. Henry M. Parsons

Company GLEN L. HAUGHT & SONS  
 Address SMITHVILLE WV 26178  
 Farm CARL W. NOLAN  
 Tract \_\_\_\_\_ Acres 236 Lease No. \_\_\_\_\_  
 Well (Farm) No. NOLAN # A-H-968 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 975  
 Quadrangle SHIRLEY, WEST UNION 7 1/2'  
 County TYLER District CENTERVILLE  
 Surveyor HENRY M. PARSONS  
 Surveyor's Registration No. 98  
 File No. 79-5390 Drawing No. 79-5390  
 Date JUNE 11, 1979 Scale 1" = 1000'

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

**WELL LOCATION MAP**  
 FILE NO. 45-095-0702

+ Denotes location of well on United States Topographic Maps, scale 1" to 31,680 latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch insets on border line of original tracing.

6-6 Bearsville (366) JUL 17 1979

FORM IV-35  
(Obverse)

Operator's Well No. 4-H-768

[08-78]

WELL OPERATOR'S REPORT OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 095-070  
State County PA

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
LOCATION: Elevation: 975' Watershed: Branch of Sancho Creek  
District: Centerville County: Tyler Quadrangle: Middlebourne

WELL OPERATOR Glenn L. Haught & Sons Carl Nolan 4-H-768  
Address Smithville, WV 26178 DESIGNATED AGENT Warren R. Haught  
Address Smithville, WV 26178

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

**RECEIVED**

AUG 20 1980

PERMIT ISSUED ON June 19, 19 79

OIL & GAS DIVISION  
OIL & GAS INSPECTOR FOR THIS STATE OF MINES

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Phil Tracey  
Address Middlebourne, WV 26149

GEOLOGICAL TARGET FORMATION: Big Injun Depth 1975 to 2149 feet

Depth of completed well, 3150 feet Rotary X / Cable Tools \_\_\_

Water strata depth: Fresh, 590 feet; salt, \_\_\_ feet.

Coal seam depths: None Is coal being mined in the area? NO

Work was commenced July 27, 19 79, and completed August 2, 19 79

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kind
Fresh water	46				X	19'	19'	10 sacks
Gal								Sizes
Intermediate	10 3/4				X	305	305'	125 sacks
Production	4 1/2	J-55	10.5#	X			3123'	235 sacks
Casing								Depth set
Perforations								Perforations:
								The Bottom
								1988 2026

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1975 to 2149 feet

Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d

Final open flow, 130 Mcf/d Final open flow, \_\_\_ Bbl/d

Time of open flow between initial and final tests, 8 hours

Static rock pressure, 240 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.

SEP 9 1980

(Reverse)

[08-78]

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

Hydrafraced by Halliburton 6-16-80 -- 1000 Gal. Acid -- 700 Bbls. Water  
30,000 Lbs. 20/40 Mesh Sand -- 8,000 Lbs. 80/100 Mesh Sand

Perforations: 8--1988--2026

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Red Rock	Red	Soft Med.	0	40	
Sand			40	65	
Shale			65	86	
Red Rock			86	91	
Sand			91	120	
Red Rock			120	134	
Shale			134	150	
Red Rock			150	160	
Sand			160	205	
Red Rock			205	240	
Shale			240	250	
Sand			250	270	
Shale			270	350	
Red Rock			350	400	
Shale			400	536	
Sand			536	595	
Sand & Shale			595	740	
Shale			740	825	
Sand & Shale			825	871	
Red Rock			871	910	
Shale			910	973	
Sand			973	1068	
Red Rock			1068	1094	
Shale			1094	1140	
Sand			1140	1186	
Shale			1186	1224	
Sand			1224	1270	
Red Rock			1270	1276	
Shale			1276	1715	
Sand			1715	1800	
Shale			1800	1835	
Sand			1835	1870	
L. Lime	1870	1892			
Pencil Cave	1892	1900			
B. Lime	1900	1975			
Sand	1975	2149			
Shale	2149	2305			
Sand	White	Hard	2305	2415	
Shale			2415	2670	
Sand			2670	2684	
Shale			2684	2725	
Sand			2740	2740	
Sand & Shale			2740	2955	
Shale			2955	3012	
Sand			3012	3022	
Shale			3022	3150	

Gordon?

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

Glenn L. Haight & Sons

Well Operator

*Glenn R. Haight*

Its Partner

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

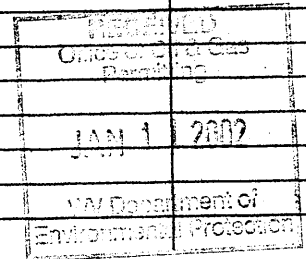
\_\_\_\_\_  
A-13

Well Operator's Report of Well Work

Farm name: Carl W. Nolan Operator Well No.: Four (4)  
 LOCATION: Elevation: 1021 A.S.L. Quadrangle: Shirley  
 District: Centerville County: Tyler  
 Latitude: 11010 Feet South of 39 Deg. 27 Min. 30 Sec.  
 Longitude 13760 Feet West of 80 Deg. 50 Min. \_\_\_\_\_ Sec.

Company: Sancho Oil & Gas

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>Box 179</u>				
<u>St. Marys. WV 26170</u>	<u>4 1/2</u>	<u>3123</u>	<u>3123</u>	
Agent: <u>Loren E. Bagley</u>				
Inspector: <u>Mike Underwood</u>	<u>2 7/8</u>		<u>5131</u>	<u>75 sacks</u>
Date Permit Issued:				
Date Well Work Commenced: <u>November 4, 2000</u>				
Date Well Work Completed: <u>November 16, 2000</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary _____ Cable _____ Rig _____				
Total Depth (feet):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>NA</u>				



OPEN FLOW DATA

Producing formation Benson Sandstone Pay zone depth (ft) 4974-4978  
 Gas: Initial open flow show MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 600 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 72 Hours  
 Static rock Pressure 1400 psig (surface pressure) after 72 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 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 pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG, WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: \_\_\_\_\_  
 By: Loren E. Bagley  
 Date: December 31, 2001

FEB 08 2002

TYL 0702

STAGE PERFORATIONS: 1ST

Benson 4974-4978 19 holes  
Nitrogen Assist with 300 Sks 20/40

STAGE PERFORATIONS:

STAGE PERFORATIONS:

FORMATION	TOP	BOTTOM COMMENTS
Big Lime	1896	1980
Keener Sandstone	1990	2074
Big Injun Sandstone	2090	2132
Weir Sandstone	2240	2400
Berea Sandstone	2478	2482
Gordon Sandstone	2902	2915
Warren Sandstone	3418	3460
Riley Sandstone	4572	4604
Benson Sandstone	4974	4978 gas
TD		5206

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 4-H-768  
API Well No. 47 - 095 - 070  
State County Perm

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

LOCATION: Elevation: 975' Watershed: Branch of Sancho Creek  
District: Centerville, County: Tyler Quadrangle: Shirley

WELL OPERATOR Glenn L. Haught & Sons  
Address Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught  
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Carl Nolan  
Address R. R.  
Alma, WV 26320

COAL OPERATOR None  
Address     

ACREAGE 236  
SURFACE OWNER Carl Nolan  
Address R. R.  
Alma, WV 26320  
ACREAGE 236

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name       
Address     

FIELD SALE (IF MADE) TO:  
Name       
Address     

Name       
Address     

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Phil Tracy  
Address Mineral Wells, WV  
758-4573

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address     

JUN 18 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 Dec. 23, 1977, to the undersigned well operator from Carl W. Nolan

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

Recorded on Feb. 23, 1978, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 214 at page 578. A permit is requested as follows:

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

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

GLENN L. HAUGHT & SONS  
Well Operator

By Warren R. Haught

Its Partner

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 Sand

Estimated depth of completed well, 3000 feet Rotary  / Cable tools  /

Approximate water strata depths: Fresh, 70 feet; salt,        feet.

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

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		970'	970'	180 Sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X			3000'	100 Sacks	Depths set
Tubing									
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 § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

**THIS PERMIT MUST BE POSTED AT THE WELL SITE**

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if

~~operations have not commenced by~~ 2-19-80

*[Signature]*  
Deputy Director, Oil & Gas Division

~~This section of the permit 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