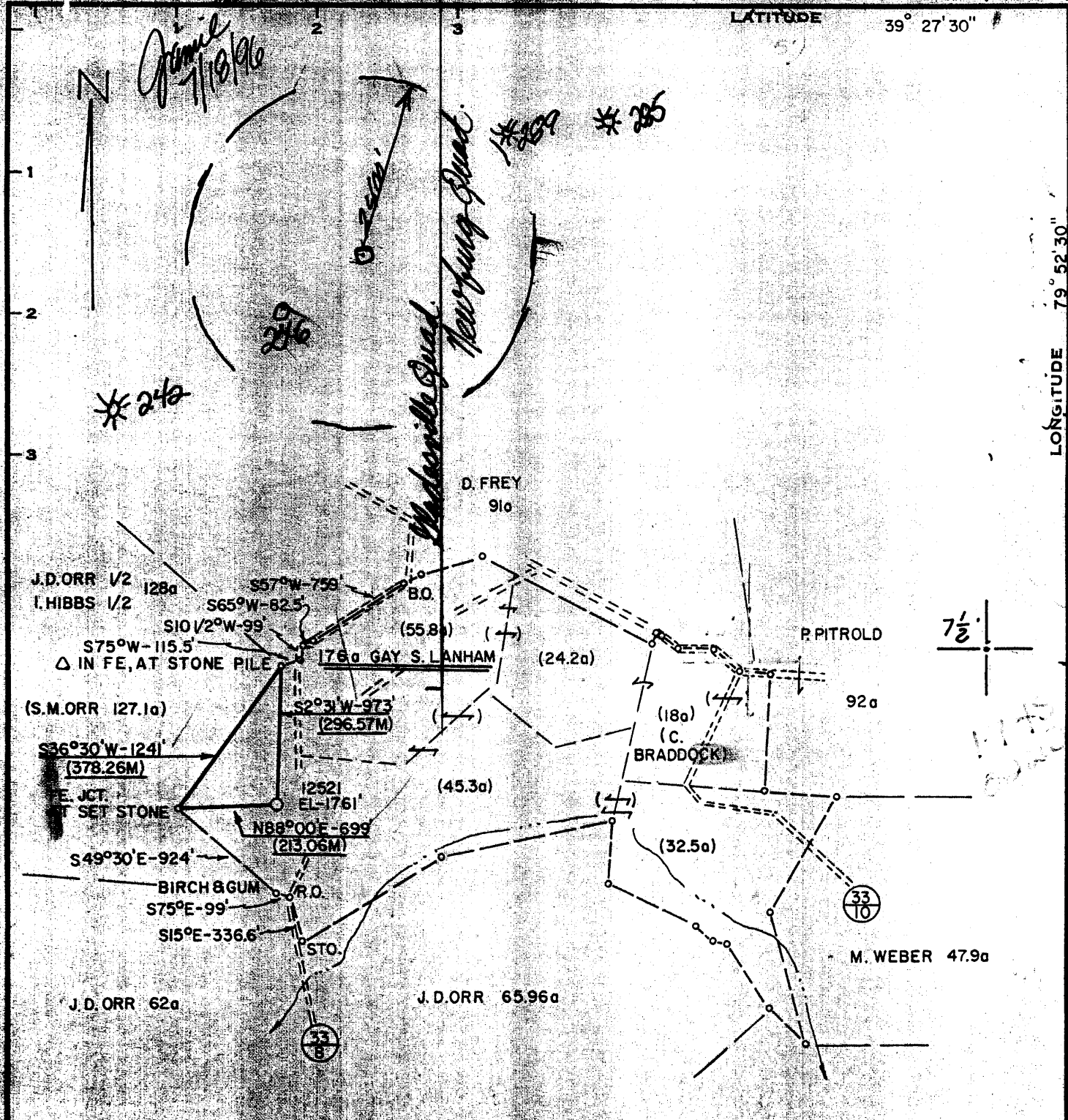


(338.33M)  
1,110'

LATITUDE 39° 27' 30"

LONGITUDE 79° 52' 30"  
9120' (2,779.78M)



Minimum Error of Closure 1' IN 200'  
 Source of Elevation B.M. = U.S.G.S. B.M. E.L.1931' GLADESVILLE 7 1/2'  
 "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."

- New Location
- Drill Deeper
- Abandonment

MAP SHEET 1032 E-6 FB. 1905 PG. 38-39

Hope Gas Inc.  
 P.o. Box 2868-Clarksburg, wva. 26301  
 Surface: Fred R. Butcher

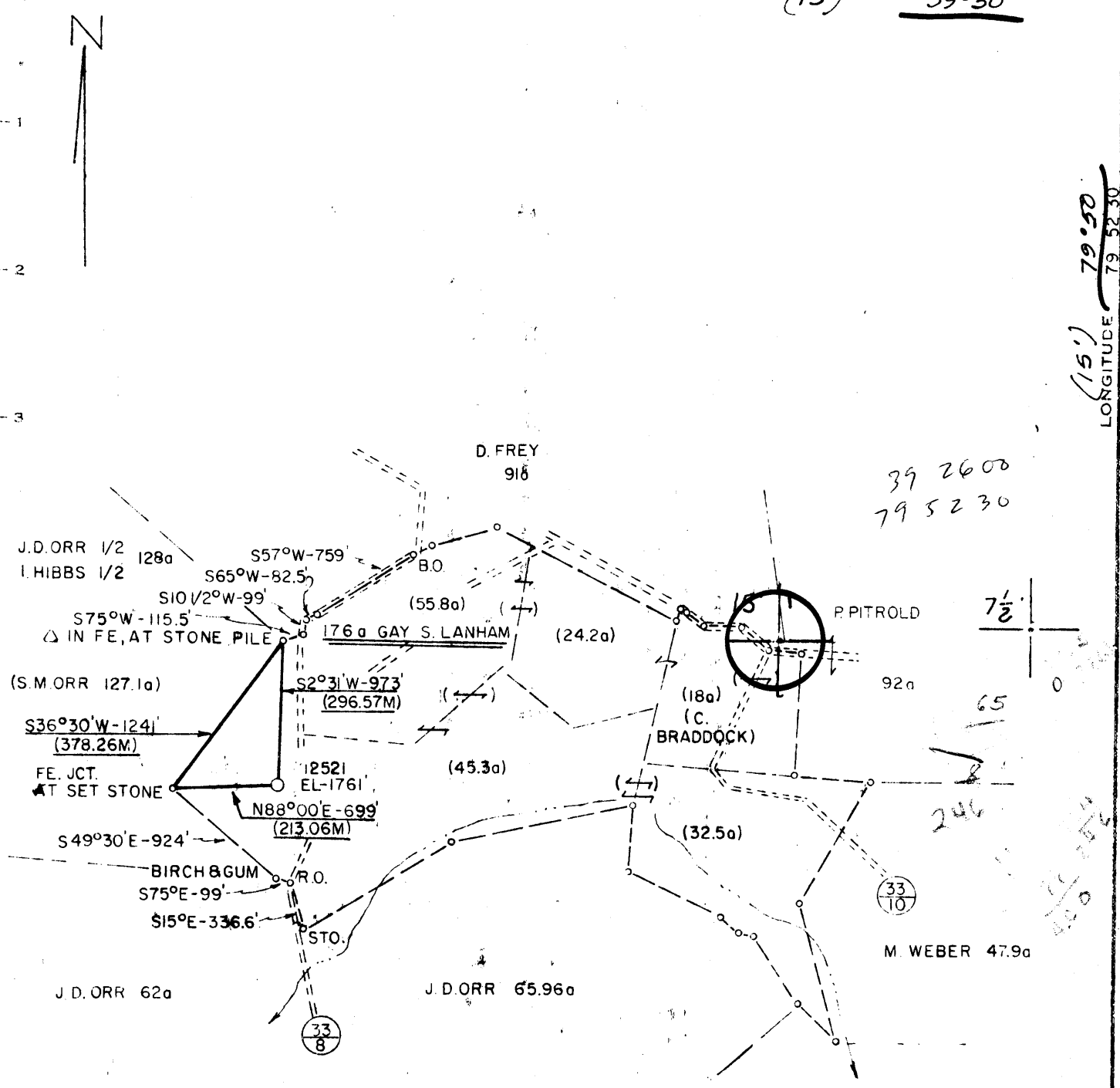
STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 NITRO, WEST VIRGINIA 25143

Tract Acres 17.5 Lease No. 91095  
 Well (Farm) No.                      Serial No. 12521  
 Elevation (Spirit Level) 1761'  
 Quadrangle GLADESVILLE 7 1/2'  
 County PRESTON District LYON  
 Engineer Ralph E. Campbell  
 Engineer's Registration No. 425 # 211  
 File No.                      Drawing No.                       
 Date JUNE 3, 1978 Scale 1" = 1,000'

**WELL LOCATION MAP**  
*APL Well No. 47-077-00191-7*  
*Well drilled in 1978 by Consolidated Gas to 4228' production from Riley Speckling & Ballston Squeeze 4 1/2' frac fourth sand remove plug comingle with above production*  
 JUL 20 1996

LATITUDE  
(15') 39° 27' 30"  
39° 30'

(15') LONGITUDE 79° 52' 30"  
9,120' (2,779.76M)



39 26 00  
79 52 30

7 1/2

65

246

Minimum Error of closure 1' IN 200'  
Source of Elevation B.M. = U.S.G.S. B.M. E.L-1931' GLADESVILLE 7 1/2'

"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."

- New Location
- Drill Deeper
- Abandonment

MAP SHEET 1032 E-6 FB. 1905 PG. 38-39

Company CONSOLIDATED GAS SUPPLY CORP  
 Address CLARKSBURG, W.V.  
 Farm GAY S. LANHAM (SURF. & MINERAL)  
 Tract \_\_\_\_\_ Acres 176 Lease No. 91095  
 Well (Farm) No. \_\_\_\_\_ Serial No. 12521  
 Elevation (Spirit Level) 1761'  
 Quadrangle GLADESVILLE 7 1/2, Thornton 15'  
 County PRESTON District LYON  
 Engineer Alfred Campbell  
 Engineer's Registration No. 415 # 211  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date JUNE 3, 1978 Scale 1"=1,000'

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

**WELL LOCATION MAP**  
 FILE NO. PRES-191

Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

— Denotes one extra spaces on border line of original tracing.

47-077 JUL 10 1978

OCT 23 1996

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Permitting  
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: BUTCHER, FRED R. Operator Well No.: CNGP-7148-12521

LOCATION: Elevation: 1,761.00 Quadrangle: GLADESVILLE

District: LYON County: PRESTON  
Latitude: 9120 Feet South of 39 Deg. 27Min. 30 Sec.  
Longitude 1110 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: HOPE GAS, INC.  
P.O. BOX 2868-UNION NAT'L CEN.  
CLARKSBURG, WV 26302-2868

Agent: CALVIN R. MORRISON

Inspector: PHILLIP TRACY  
Permit Issued: 07/19/96  
Well work Commenced: 8/5/96  
Well work Completed: 9/11/96  
Verbal Plugging  
Permission granted on:  
Rotary Cable Rig  
Total Depth (feet) 3945'  
Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)?  
Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Ran 114 Jts. 1.5" Tubing			

OPEN FLOW DATA

Producing formation 4th Sand Pay zone depth (ft) 2061-2071'

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
 Final open flow \*530 MCF/d Final open flow N/A Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 400 psig (surface pressure) after 12 Hours

\* Commingle with existing production.

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.

For: CNG PRODUCING COMPANY

By: Rodney J. Biggs, Production Manager, Appalachian Region  
Date: 10/23/96

OCT 25 1996

NR

CNGP 7148 WORKOVER

8/5/96 - Young Wireline perforated 4th Sand - 2061-2071, (30 holes)

8/6/96 - Nowsco Water Fraced

Total Fluid	451 bbls. 25# gel
Total Sand	5K 80/100, 30K 20/40
Avg. Press	1920
Avg. Rate	30 BPM
F.G.	.96

9/24/96 - Ran 114 Jts. 1 1/2" Tbg. = 3871

9/24/96 - F.O.F. = 530 MCFD

9/24/96 - T.B.I.L.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 20

OIL & GAS DIVISION  
DEPT. OF MINES

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Gladesville

Permit No. PRES-191

47-077

Company Consolidated Gas Supply Corp.  
Address 445 W. Main St., Clarksburg, WV  
Farm Gay S. Lanham Acres \_\_\_\_\_  
Location (waters) Three Fork Creek Br.  
Well No. 12521 Elev. 1761'  
District Lyon County Preston  
The surface of tract is owned in fee by \_\_\_\_\_  
Gay S. Lanham  
Address Rt. 1, Independence, WV  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced August 9, 1978  
Drilling Completed August 15, 1978  
Initial open flow 45M cu. ft. \_\_\_\_\_ bbls.  
Final production 207M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 1 1/2 hrs. before test 1100# RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <u>1710" 11 3/4"</u>	271	271	To surface
9 5/8			
8 5/8	846	846	To surface
7			
5 1/2			
4 1/2	4029	4029	330 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well fractured in Riley with 50,000# sand, 700 bbls. of water & 500 gals. 15% Hcl.

Perforations: 3808 - 3812 with 6 holes & 3878 - 3882 with 6 holes.

Well fractured in Speechley & Balltown with 50,000# sand, 700 bbls. water & 800 gal. 15% Hcl.

Perforations: 2978-2984 with 6 holes, 3028-3030 with 2 holes & 3104-3108 with 4 holes.

Coal was encountered at 227' 472' Feet 36" 36" Inches  
Fresh water 50', 315' & 570' Feet Salt Water None Feet  
Producing Sand Riley, Speechley & Balltown Depth See perforations

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	5		
Sand & Shale			5	227	Water	50'
Coal			227	230	Water	315'
Sand			230	472	Water	570'
Coal			472	475		
Sand & Shale			475	1145	Gas	2690'
Little Lime			1145	1165	Gas	3001'
Red Rock			1165	1185	Gas	3686'
Big Lime & Injun			1185	1275	Gas	4008'
Sand & Shale			1275	4070	Gas	4228'
Benson ✓			4070	4100		
Sand & Shale			4100	4228	T.D.	
KBM 11' above G. L.						
					4228	
					3030	
					1198	Expl. Footage

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Gamma Ray Log Tops						
Little Lime			1016	1030		
Big Lime			1068	1136		
Big Injun			1136	1256		
Pocono			1333	1440		
Berea			1536	1560		
Gantz			1585	1656		
50'			1660	1769		
30'			1860	1880		
Gordon Stray			1899	- -		
Gordon			- -	2032		
lth			2063	2148		
lth A			2154	2178		
Warren			2597	2646		
Upper Speechley			2820	2843		
Speechley			2888	2916		
Balltown			2972	3122		
Bradford			3338	3458		
Riley			3650	3882		
Benson			4067	4076		
Total Depth				4217		

Consolidated Gas Supply Corp.  
 445 West Main Street  
 Clarksburg, West Virginia

Date January 30, 1979

APPROVED Consolidated Gas Supply Corp. Owner

By J. E. Payne Manager of Prod.

141  
077- ~~0000~~ - Frac.

22245

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Issued 07/19/96  
Expires 07/19/98

Well Operator: <sup>400</sup> Hope Gas, Inc. 22775 (3) 368

Operator's Well Number: CNGP 7148W (CNGT 12521) 3) Elevation: 1761'

Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow \_\_\_

- 5) Proposed Target Formation(s): 4TH Sand
- 6) Proposed Total Depth: 2076-2100 feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: \_\_\_\_\_
- 9) Approximate coal seam depths: \_\_\_\_\_
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No \_\_\_
- 11) Proposed Well Work: Squeeze cement to cover intervals. Perf and Frac proposed interval. Commingle with existing production.
- 12) *Temporary Plug*

RECEIVED  
WV Division of Environmental Protection  
JUL 01 1996  
Permitting Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4"			271'	271'	To surface
Fresh Water						
Coal						
Intermediate	8 5/8"			846'	846'	To surface
Production	4 1/2"			4029'	4029'	330' sks.
Tubing						
Liners						

*Existing from well records*

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket (Type)  Agent

01/28/20

nr

**RECEIVED**  
WV Division of  
Environmental Protection

JUL 01 1996

Permitting  
Office of Oil & Gas

- 1) Date: 6/14/96
- 2) Operator's well number CNGP 7148W (CNGT 12521)
- 3) API Well No: 47 - 077 - 019W 191W  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

- 4) Surface Owner(s) to be served:
  - (a) Name Fred R. Butcher  
Address Rt. 1, Box 242  
Independence, WV 26374
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name (Same as Surface Owner)  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Phillip Tracy  
Address \_\_\_\_\_  
Telephone (304) - 636-8798

**TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:**

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

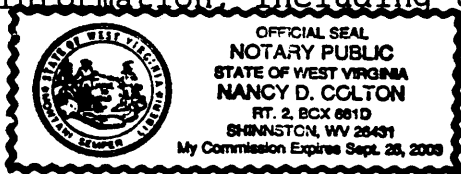
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Hope Gas, Inc.  
 By: Calvin Morrison *Calvin R Morrison*  
 Its: Designated Agent  
 Address P. O. Box 2868  
Clarksburg, WV 26301  
 Telephone (304) 623-8600

Subscribed and sworn before me this 30th day of April, 1996

Nancy D. Colton Notary Public  
My commission expires 9-26, 2003

nc





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUN 21 1978

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

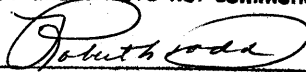
DATE June 16, 1978

Surface Owner Gay S. Lanham Company Consolidated Gas Supply Corp.  
 Address Rt. 1, Independence, W. Va. 26374 Address Clarksburg, W. Va.  
 Mineral Owner Same. Farm Gay S. Lanham Acres 176  
 Address \_\_\_\_\_ Location (waters) Three Fork Creek Br.  
 Coal Owner Same Well No. 12521 Elevation 1761'  
 Address \_\_\_\_\_ District Lyon County Preston  
 Coal Operator No operations Quadrangle Gladesville  
 Address \_\_\_\_\_

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 10-21-78.

INSPECTOR  
 TO BE NOTIFIED William Blosser  
 ADDRESS P. O. Box 1028, Colfax, W. Va.  
 PHONE 363-9105

  
 Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 19th May 19 76 by Gay S. Lanham made to Consolidated Gas Supply and recorded on the 30th day of June 19 76, in Preston County, Book 461 Page 617

XXX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
 \_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
 (Sign Name) W. E. Bayne  
 Well Operator Mgr. Prod.  
 Address of Well Operator Consolidated Gas Supply Corp.  
 Street 445 W. Main St., Clarksburg, W. Va.  
 City or Town \_\_\_\_\_  
 State \_\_\_\_\_

See Rec Plan  
REB

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

PRES-191 PERMIT NUMBER

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME S. W. Jack Drilling Co. NAME R. E. Bayne  
 ADDRESS Indiana, Pa. ADDRESS Bridgeport, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE 623-3611  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Benson  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT III UP OR SACKS - CUBIC FT.
<del>10</del> - 16"	20'	20'	To Surface
<del>11</del> 11"	250'	250'	To Surface
9 - 5/8			
8 - 5/8	800	800'	To Surface
7			
5 1/2			
4 1/2	4300'	4300'	125 bags
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 851 FEET SALT WATER None FEET  
 APPROXIMATE COAL DEPTHS None  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.  
 We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company  
\_\_\_\_\_  
Official Title