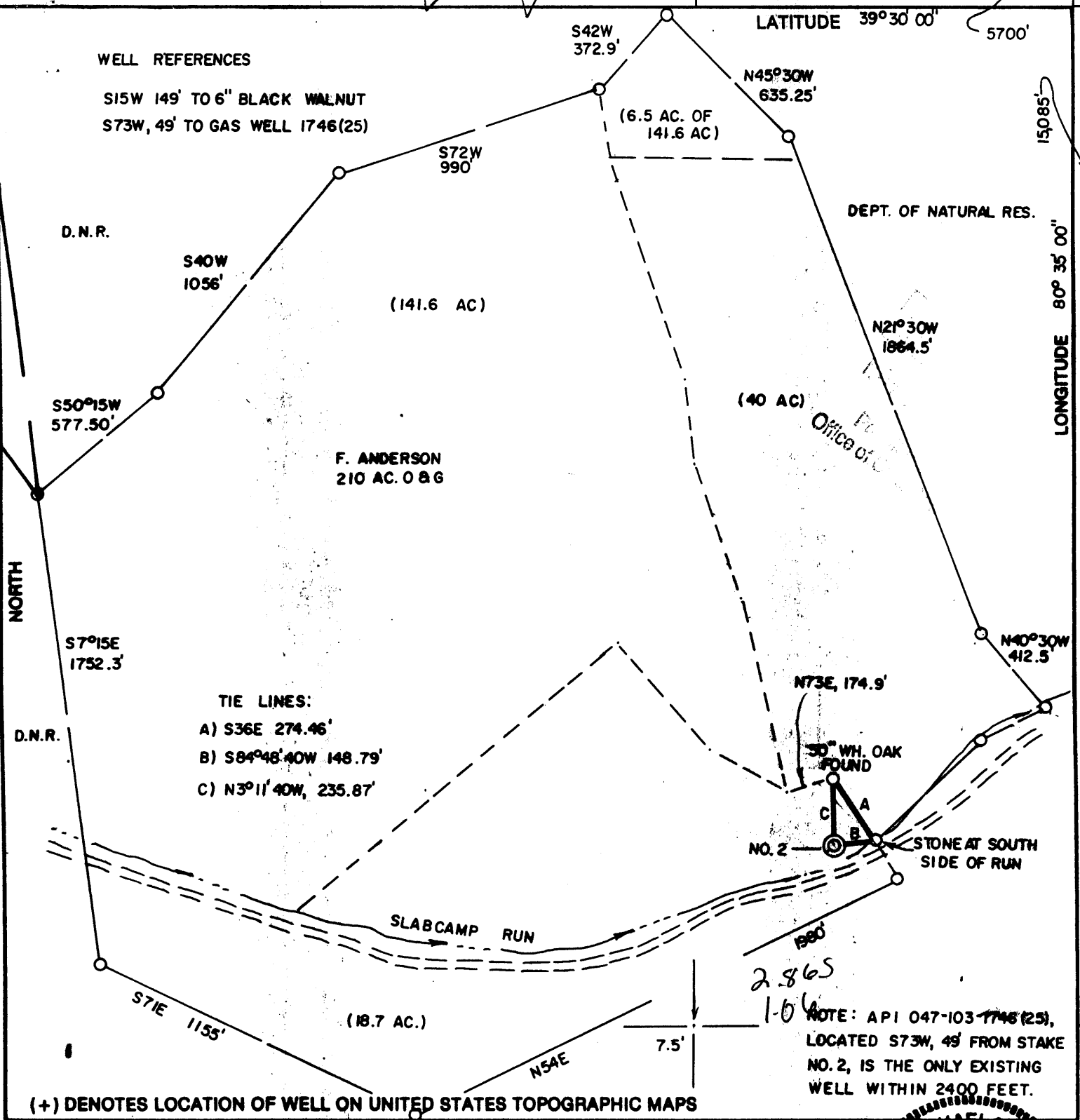


WELL REFERENCES

S15W 149' TO 6" BLACK WALNUT  
S73W, 49' TO GAS WELL 1746(25)



TIE LINES:

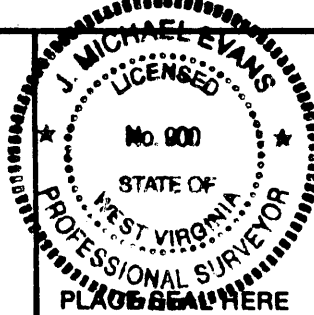
- A) S36E 274.46'
- B) S84°48'40W 148.79'
- C) N3°11'40W, 235.87'

NOTE: API 047-103-1746(25), LOCATED S73W, 49' FROM STAKE NO. 2, IS THE ONLY EXISTING WELL WITHIN 2400 FEET.

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION Top of knob  
3125' East at 1477'

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 ENERGY.  
(SIGNED) J. Michael Evans  
R.P.E. \_\_\_\_\_ L.L.S. 900



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE October 24, 19 97  
OPERATOR'S WELL NO. F. Anderson 2  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 958' WATERSHED Slabcamp Run  
DISTRICT Grant COUNTY Wetzel  
QUADRANGLE Folsom 7.5'  
SURFACE OWNER John L. Ash ACREAGE 166.40  
OIL & GAS ROYALTY OWNER F. Anderson LEASE ACREAGE 210.

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 100

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION Big Injun ESTIMATED DEPTH 2300'  
WELL OPERATOR Cobham Gas Industry, Inc. DESIGNATED AGENT Rick Underwood  
ADDRESS P. O. Box 1697 ADDRESS P. O. Box 1697  
Clarksburg, WV 26302-1697 Clarksburg, WV 26302-1697

FORM WV-6

COUNTY NAME  
PERMIT

WR-35

18-Nov-97

API # 47-103-01757

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

Well Operator's Report of Well Work

Farm name: ASH, JOHN L. & LAURA Operator Well No.: F.ANDERSON #2

LOCATION: Elevation: 958.00 Quadrangle: FOLSOM

District: GRANT County: WETZEL  
Latitude: 15085 Feet South of 39 Deg. 30Min. 0 Sec.  
Longitude 5700 Feet West of 80 Deg. 35 Min. 0 Sec.

Company: COBHAM GAS INDUSTRIES, IN  
P. O. BOX 1697  
CLARKSBURG, WV 26302-1697

Agent: RICK UNDERWOOD

Inspector: RANDAL MICK  
Permit Issued: 11/20/97  
Well work Commenced: 1/6/98  
Well work Completed: 1/22/98  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2360  
Fresh water depths (ft) 5; 25; 63

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 170; 410; 710

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To Surface
13 3/8	70	70	100 sks
9 5/8	809	809	275 sks
4 1/2	2281		681' fill 140 sks

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2099-2105  
Gas: Initial open flow show MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 100 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure 150 psig (surface pressure) after 8 Hour

Second producing formation None 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 \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

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.

RECEIVED  
WV Division of  
Environmental Protection

MAR 11 1998

Permitting  
Office of Oil & Gas

COBHAM GAS INDUSTRIES, INC.  
For: COBHAM GAS INDUSTRIES, INC.

By: [Signature]  
Date: March 3, 1998

MAR 24 1998

FRAC

Big Injun 2099-2105 (20); Crosslink Frac; 20,000 lb20/40 Sand; 12bbl HCL

Formation Description

Soil	0 - 50	Water @ 5 & 25'-total 1 1/2' stream
Shales & Red Rock	50 - 170	Water @ 63'
Coak	170 - 175	
Sand & Shales	175 - 380	
Red Rock	380 - 410	
Coal	410 - 430	Coal @ 410'
Shales	430 - 710	
Coal	710 - 720	Coal @ 710'
Shales	720 - 1320	
Sandstone	1320 - 1450	
Shales	1450 - 1530	
Sandstone	1530 - 1560	
Shales	1560 - 1620	
Sandstone	1620 - 1650	
Shales	1650 - 1710	
Sandstone	1710 - 1750	
Shales	1750 - 1975	
Big Lime	1975 - 2045	
Big Injun	2045 - 2210	Gas show @ 2100
Shales	2210 - TD	
T.D.	2360	

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 Environmental Protection

MAR 17 1998

Permitting  
 Office of Oil & Gas

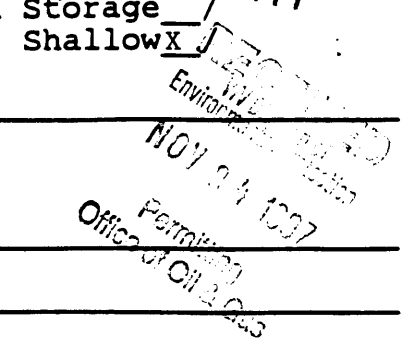
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 Office of Oil & Gas

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

103 1757

24576

- 1) Well Operator: <sup>5630</sup> Cobham Gas Industries, Inc. 10195 (4) 349
- ) Operator's Well Number: F. Anderson #2 3) Elevation: 958
- ) Well type: (a) Oil\_\_\_/ or Gas~~X~~/ *Issued 11/20/97*  
 (b) If Gas: Production~~X~~/ Underground Storage\_\_\_  
 Deep\_\_\_/ Shallow~~X~~ *Expires 11/20/99*
- ) Proposed Target Formation(s): <sup>371</sup> Big Injun
- o) Proposed Total Depth: 2300 feet
- 7) Approximate fresh water strata depths: 64'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 714'
- 10) Does land contain coal seams tributary to active mine? Yes\_\_\_/ No~~X~~/
- 11) Proposed Well Work: Drill and Stimulate
- 12)



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	Api	55	10	10	
Fresh Water	13 3/8	Api	48	75	75	To Surface
Coal	9"	H-40	26	800	800	To Surface
Intermediate						
Production	4 1/2	M-65	9.5	2250	2250	
Tubing						
Liners						

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

*000 4883  
35*

For Office of Oil and Gas Use Only

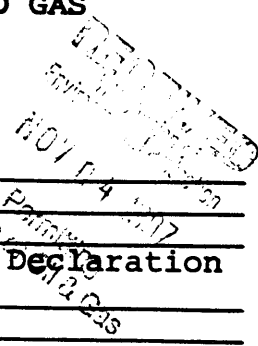
Fee(s) paid:     Well Work Permit     Reclamation Fund     WPCP  
 Plat     WW-9     WW-2B     Bond \_\_\_\_\_     Agent  
(Type)

70

1) Date: October 23, 1997  
2) Operator's well number  
F. Anderson #2  
3) API Well No: 47 - 103 - 1757  
State - County - Permit

STATE OF WEST VIRGINIA  
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 John L. & Laura Ash  
Address Rt. 9, Box 439  
Fairmont, WV 26554  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Randy Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304)- 986-3324

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name None  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

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  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B 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 Cobham Gas Industries, Inc.  
By: Richard Underwood *Richard Underwood*  
Its: Agent  
Address Rt. 4, Box 350A, P.O. Box 1697  
Clarksburg, WV 26302-1697  
Telephone 304-623-0374

Subscribed and sworn before me this 31<sup>st</sup> day of October, 1997

Rhonda J. Wharton Notary Public  
My commission expires November 15, 2001

