

Plat of WELLS NO. 3608 & 7224

HOPE NATURAL GAS CO

J.A.S. W. JACKSON & I.M. JACKSON

HACKERS CREEK 4

District

LEWIS

County, W. Va.

of the
Clarksburg, W. Va., on the
Farm consisting of 230 & 75 Acres

CNG TRANSMISSION
445 W. MAIN STREET
CLARKSBURG, WV. 26301

ELEVATION
1043

7.5 QUADRANGLE WESTON

J. W. Jackson

PERMIT
API WELL NO.

47-041-2246-DD

2247' BAYTOWN

Isaac Jackson

J. W. JACKSON
939

3608
El. 1043

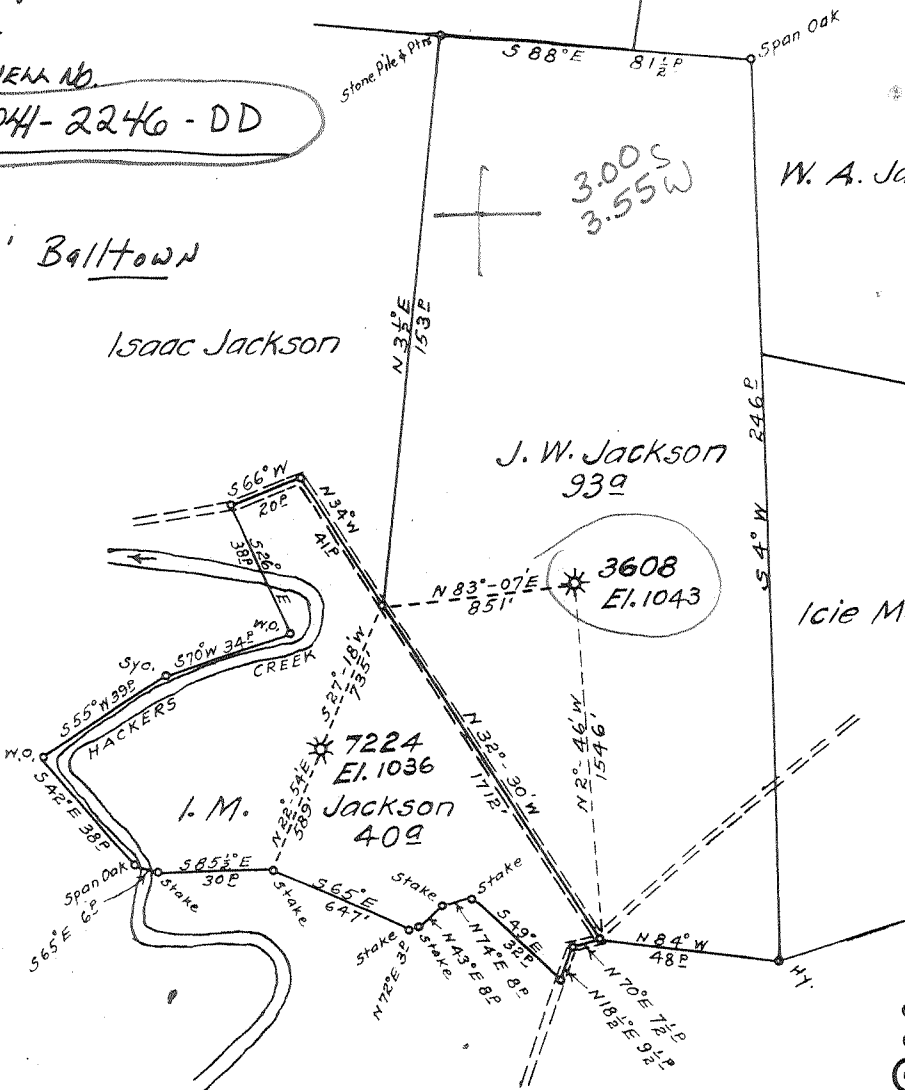
I. M. JACKSON
409

7224
El. 1036

Isaac Jackson

W. A. JACKSON

IcIE ME Whorter



LEGEND

- Location
- Oil Well
- " " Aband.
- ⊗ Gas Well
- ⊗ " " Aband.
- ⊗ Dry Hole

Field Book No. 546 P-19
Scale 1" = 40 Poles

19.....

updated 9/12/89
Jamie

ENGINEERS CERTIFICATE

I, the undersigned, hereby certify that this map is correct and shows all the information to the best of my knowledge and belief, required by the oil and gas section of the mining laws of West Virginia.

ENGINEER

Acknowledged before me a Notary Public in and for the County of Harrison and State of West Virginia

this [redacted] day of [redacted] 19 [redacted]

My Commission expires [redacted]

PRINTED ON "IMPERIAL" TRADING CLOTH
A. & E. CO., N. Y.

637

Lewis Co. 2246-DD

Hackers CK DIST-4

Weston 7.5 - 670, Weston 15' - 132(5)

CNG Transmission - 1817

OWDD

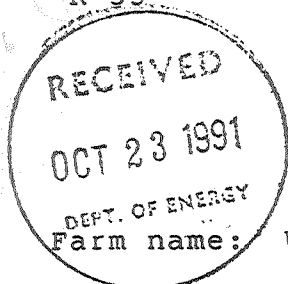
6-6 Weston - Jane Lew (153)

SEP 15 1989

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Reviewed: IMG
Recorded: _____

Well Operator's Report of Well Work



Farm name: WHITE, CHRISTINE J. Operator Well No.: 3608

LOCATION: Elevation: 1043.00 Quadrangle: WESTON

District: HACKERS CREEK County: LEWIS
Latitude: 750 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 8820 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: CNG TRANSMISSION CORP.
445 WEST MAIN ST
CLARKSBURG, WV 26302-2450

Agent: GLENN A. KNEPPER

Inspector: STEVE CASEY
Permit Issued: 09/12/89
Well work Commenced: 11/27/89
Well work Completed: 12/12/89
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet): 3232'
Fresh water depths (ft) No Report

Salt water depths (ft) No Report

Is coal being mined in area (Y/N)? N
Coal Depths (ft): No Record

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10"	155	155'	
8 1/4"	772	772'	
6 5/8"	1299	1299'	
2"	2076	2076'	
3"	182	182'	

OPEN FLOW DATA

Producing formation Balltown Pay zone depth (ft) 3232'
Gas: Initial open flow 202 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 202 MCF/d Final open flow _____ Bbl/d
~~Time of open flow between initial and final tests _____ Hours~~
Static rock Pressure 840 psig (surface pressure) after 14 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.

For: CNG TRANSMISSION CORP.

By: Glenn A. Knipper
Date: October 22, 1991

NOV 9 - 1991

Perforated: 11/29/89 - 2999-3004 - 10; 3015-3025 - 16; 2 shots per foot

No Record Below	
Dunkard Sand	165 - 375
Salt Sand	475 - 747
Injun Sand	1278 - 1373
Gantz Sand	1516-1532
Fifty Foot Sand	1599-1620
Thirty Foot	1710-1740
Stray Sand	1913-1921
Gordon Sand	1924-2001
Fifth Sand	2081-2101
Bayard Sand	2223-2226
Total Depth:	3232'

~~3232 New TD
1373 old TD???~~
~~1859 - new ftg??~~

3232 New TD
2246 TD in 1915

986 new ftg

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

- 1) Well Operator: CNG TRANSMISSION CORPORATION 10900 (4) 669
- 2) Operator's Well Number: 3608 3) Elevation: 1043'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Balltown 433
- 6) Proposed Total Depth: 2247 feet
- 7) Approximate fresh water strata depths: NO REPORT
- 8) Approximate salt water depths: NO REPORT
- 9) Approximate coal seam depths: NO REPORT
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Drill Deeper to Balltown (3225')
- 12) Drill Existing Well deeper Run 1/2
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling / Left in well	
Conductor					
Fresh Water	10"	Existing		155'	
Coal					
Intermediate	6 5/8"	Existing		1299'	
Production	4 1/2"			3225' ← 38CSR/18-11-1	
Tubing					
Liners					

RECEIVED
AUG 03 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

063400
Fee(s) paid: Well Work Permit Reclamation Fund WPCP

RECEIVED
AUG 03 1989

Page 1 of 2
Form WW2-A
(09/87)
File Copy

1) Date: July 18, 1989
2) Operator's well number 3608
3) API Well No: 47 - 041 - 2246 -DD
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Christine J. White
Address Box 19
Jane Lew, WV 26378
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mr. Stephen Casey
Address Route 2, Box 232-D
Jane Lew, WV 26378
Telephone (304)-884-7470

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name Christine J. White
Address Box 19
Jane Lew, WV 26378
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
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
XX 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)
- XX 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.


NOTARY PUBLIC
STATE OF WEST VIRGINIA
FELICIA M. CAPUTO
218 Westwood Ave.
Bridgeport, W. Va. 26330
My Commission Expires January 20, 1998

Well Operator CNG TRANSMISSION CORPORATION
By: _____
Its: MANAGER OF PRODUCTION
Address 445 W. Main Street
Clarksburg WV 26301
Telephone 623-8000

Subscribed and sworn before me this 25th day of July, 19 89

Felicia M. Caputo
My commission expires January 20, 1998 Notary Public

Record of *Hope Natural Gas Co* Company
 District *1915*
 Well No. *36081*
 Located on *Hack Creek* County *Lewis* State *MO*
 Location Made *7-30-14* First Work Done *8-2-14* ENT'D
 Rig Commenced *8-6-14* Rig Completed *1-27-15* F. E. D.
 Drilling Commenced *7-3-15* Drilling Completed *3-16-15*
 Drilling Contractor *H. H. & Co. Tools, String Co.* Drilling Contractor *Nelson & Thwaites*
 Drillers *Ray Brown*
 Tool Dressers *Pass, Goodman*

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Live Coal	70	72					
Pittsburg Coal	165	204					
Little Dunkard	295	275					
Big Dunkard							
Gas Sand							
First Salt	475	620					
Second Salt	632	747					
Maxon							
Little Lime							
Conell Cave							
Big Lime	1196	1278					
Big Injun	1278	1373					
Squaw							
Berea							
Gantz	1516	1532					
Fifty Foot	1590	1620					
Thirty Foot	1710	1740					
Gordon Stray	1913	1921					
Gordon	1924	2001					
Fourth							
Fifth	2081	2101					
Bayard	2223	2226					
Total Depth	2246						

1612 ft. Enough to test
1963 6/10 Marc 2' off
2083-2094 1/10 Marc 2' off
2224 1/10 Marc 2' off

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Cag.	Haul		Haul		Haul		Haul		Haul		Haul		
10" "	214	6	155	0	155	0	Haul		Haul		214	6	
8 1/2" "	961	3	772	0	772	0	Haul		Haul		961	3	
6 5/8" "	1778	2	1299	0	Haul		1299	0	Haul		479	2	
5 3/16" "	3057	3	1933	0	Haul		1933	0	Haul		114	3	
2 1/2" Tubg.	2400	2	Haul		Haul		Haul		Haul		2400	2	

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
8 1/2 x 6 7/8	B.H.	Haul	1299 0	
6 5/8 x 5 3/16	B.H.	Haul	1933 0	

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By When Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
7/19-15	8	2229	2226	4	13 1/2	12	11	2"	Leaking over				
12/19-15	30	2083	2097	4	5 1/2	10							

CEMENTING RECORD

Date Cemented *Not Cemented* Hole Cemented..... Site Casing Cemented.....
 Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....
 Mr. *APR 3 1915 H.U.B.* of..... Coal Company on ground when coal was cemented
 Signature of person who cemented well

Remarks: *W. L. Brock MAY 9 1915 G.A.K.*
W. L. Brock MAR 21 1915 J.C.L.
W. L. Brock APR 4 1915 H.U.B.
 Approved by *W. J. Drappelman* Foreman
 Lew-2246