

REVISED 5-12-86

Paul F. & Lowell F. Thomas
Total: 200 Acres
Lease 187693 D.B. 478 Pg. 919-924

NOTE: No Houses within 300' of Location
NOTE: Survey Meridian 1982 Magnetic

FILE NO. 20972-T
 DRAWING NO. FB. 1433-N Pg. 16
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION 1884' INTERSECTION OF ROUTES 3 & 3A

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 MINES.
 (SIGNED) [Signature]
 R.P.E. _____ L.L.S. 99



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-8 (8-78)
 LAT. 39° 35' 02"
 LONG. 79° 35' 11"



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE APRIL 1, 1982
 OPERATOR'S WELL NO. 20972-T
 API WELL NO. 47 - PRESTON - 0244-P
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1884' WATER SHED LITTLE LICK RUN
 DISTRICT PORTLAND COUNTY PRESTON
 QUADRANGLE GUZZART, W.VA. - 7 1/2'
 SURFACE OWNER PAUL F. & LOWELL F. THOMAS ACREAGE 200
 OIL & GAS ROYALTY OWNER PAUL F. & LOWELL F. THOMAS LEASE ACREAGE 200
 LEASE NO. 187693

PROPOSED WORK: DRILL X 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 HELDERBERG L.S. ESTIMATED DEPTH 8030'
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT R. H. SHRUT
 ADDRESS P.O. BOX 1273 ADDRESS P.O. BOX 1273
CHARLESTON, W.VA. 25325 CHARLESTON, W.VA. 25325

MAR 23 1982



IV-35
(Rev 8-86)

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DEC 09 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date 12-4-86
Operator's
Well No. 20972
Farm Thomas
API No. 47 - 077 - 02

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

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep X / Shallow ___)

LOCATION: Elevation: 1884 Watershed Little Lick Run
District: Portland County Preston Quadrangle Cuzzart

COMPANY Columbia Natural Resources, Inc.
ADDRESS P.O. Box 1273, Charleston, WV 25325
DESIGNATED AGENT J. E. Campbell
ADDRESS P.O. Box 1273, Charleston, WV 25325
SURFACE OWNER P. F. & L. F. Thomas
ADDRESS P.O. Box 206, Bruceton Mills, WV 26525
MINERAL RIGHTS OWNER FSS Coal Holdings, Inc.
ADDRESS Friedens, PA 15541
OIL AND GAS INSPECTOR FOR THIS WORK Donald Ellis
ADDRESS Fairmont, WV 26554
PERMIT ISSUED 6-19-86
DRILLING COMMENCED 6-30-86
DRILLING COMPLETED 8-6-86 ✓

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON 8-3-86

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft
Size 20- 16 Cond.	33	33	-
13- 10 "	524	524	470
9 5/8	3736	2625	1000
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 7859 feet
Depth of completed well 8080 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 32 feet; Salt ___ feet
Coal seam depths: 17-21', 100-104', 110-112', Is coal being mined in the area? Yes
233-237'

OPEN FLOW DATA

Producing formation N/A Pay zone depth ___ feet
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow ___ Bbl/
Final open flow N/A Mcf/d Final open flow ___ Bbl/
Time of open flow between initial and final tests ___ hours
Static rock pressure N/A psig (surface measurement) after ___ 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/
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

DEC 15 1986

N/A

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all and salt water, coal, oil a
SS Shale			0	630	Fresh Water @ 32' Coal @ 17-21', 100-104', 110-112'. 233-237'
Little Lime			630	739	
Blue Monday			739	798	
Big Lime			798	840	
Big Injun			840	886	
Weir			926	1157	<u>S.G. @ 1217', 1300, 1700', 1806', 1960', 2098'</u>
Elizabeth			2112	2229	
Speechley			2430	2880	
Benson			3052	3070	
Scheer Fm			4400	5740	
Brallier			5740	7230	
Tully LS			7230	7257	
Upper Marcellus			7534	7635	
Purcell Lime			7635	7657	
Lower Marcellus			7657	7694	
Onondaga Lime			7694	7710	
Huntersville Chert			7710	7830	
Needmore			7830	7859	
Oriskany			7859	7980	
Helderberg			7980	T.D.	
				TD 8080	

(Attach separate sheets as necessary)

COLUMBIA NATURAL RESOURCES, INC.

Well Operator

By:

C. D. Fordyce

Date:

12-4-86

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 drilling of a well."



1) Date: May 23, 1986
 2) Operator's Well No. 20972-T
 3) API Well No. 077-0244 Permit

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 JUN 19 1986

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

APPLICATION FOR A WELL WORK PERMIT

DIVISION OF OIL & GAS
 DEPT. OF ENERGY

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 1884 Watershed: Little Lick Run
 District: Portland County: Preston Quadrangle: Cuzzart
- 6) WELL OPERATOR Columbia Natural Resources, Inc. 7) DESIGNATED AGENT Joseph E. Campbell
 Address P. O. Box 1273 Address P. O. Box 1273
Charleston, WV 25325 10460 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis
 Address 2604 Crab Apple Lane
Fairmont, WV 26554
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Helderberg 485
- 12) Estimated depth of completed well, 8030 feet
- 13) Approximate true depths: Fresh, ≈ 274, 419 feet; salt, _____ feet.
- 14) Approximate coal seam depths: 412, 444 Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM PERMIT #s 221, 220, 213

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	13-3/8			X		474 98	474 98	To surface	<u>Per Rule 15.05</u>
Fresh water									Sizes
Coal									
Intermediate	9-5/8			X		2800'	2800'	To surface	
Production	5-1/2			X		8030'	8030'	<u>600 SKS</u>	Depths set
Tubing								<u>OL AS REQUIRED BY RULE</u>	Perforations:
Lin.								<u>15.01</u>	Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-077-0244 Date June 19, 1986

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires June 19, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>5-010686</u>	WBCP: <u>AS</u>	S&E: <u>AS</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

John W. Johnston
 Director, Division of Oil and Gas File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

Margaret J. Hesse

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APR 03 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

FSS Coal Holdings, Inc.
Coal Operator or Owner
P. O. Box 121, Friedens, PA 15541
Address

Coal Operator or Owner
Address
P. F. & L. F. Thomas
Lease or Property Owner
P. O. Box 206, Bruceton Mills, WV
Address

Columbia Natural Resources, Inc.
Name of Well Operator
P. O. Box 1273, Charleston, WV 25325
Complete Address

April 2 19 87

WELL AND LOCATION

Portland District
Preston County

WELL NO. 20972

P. F. & L. F. Thomas Farm

STATE INSPECTOR SUPERVISING PLUGGING Donald Ellis

AFFIDAVIT

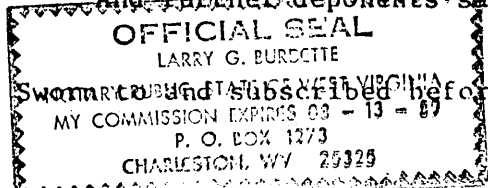
STATE OF WEST VIRGINIA,
County of Kanawha ss:

Charles D. Fordyce and Charles E. Bellinger
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Columbia Natural Resources, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 4th day of August, 19 86, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
	13-3/8" casing cemented to surface	390 sx Cl. A	541	
	Class A Cement	Surface to 2750'		
Various	9.4# Polymer Mud			
Sandstone	Class A Cement 65 sx	2590' to 2750'		
Sandstone	9-5/8" casing cemented to surface	800 sx Cl. A	2645'	
Shale & Limestone	9.4# Polymer Mud	2750' to 7750'		
Oriskany Sand	Class A Cement 106 sx	7750' to 8050'		
	Note drawing on back			
Coal Seams				
(Name)	(17'-21')	All coal seams are behind		
(Name)	(100'-104')	13-3/8" casing cemented from		
(Name)	(110'-112')	541'KB to surface w/Class A		
(Name)	(233'-237')	cement		

and that the work of plugging and filling said well was completed on the 6th day of August, 19 86.

And further deposes and saith not.



Sworn to and subscribed before me this 2nd day of April, 19 87.

Charles D. Fordyce
Charles E. Bellinger
Larry G. Burdette
Notary Public

My commission expires:
August 13, 1989

Permit No. 47-011-0244 APR 13 1987