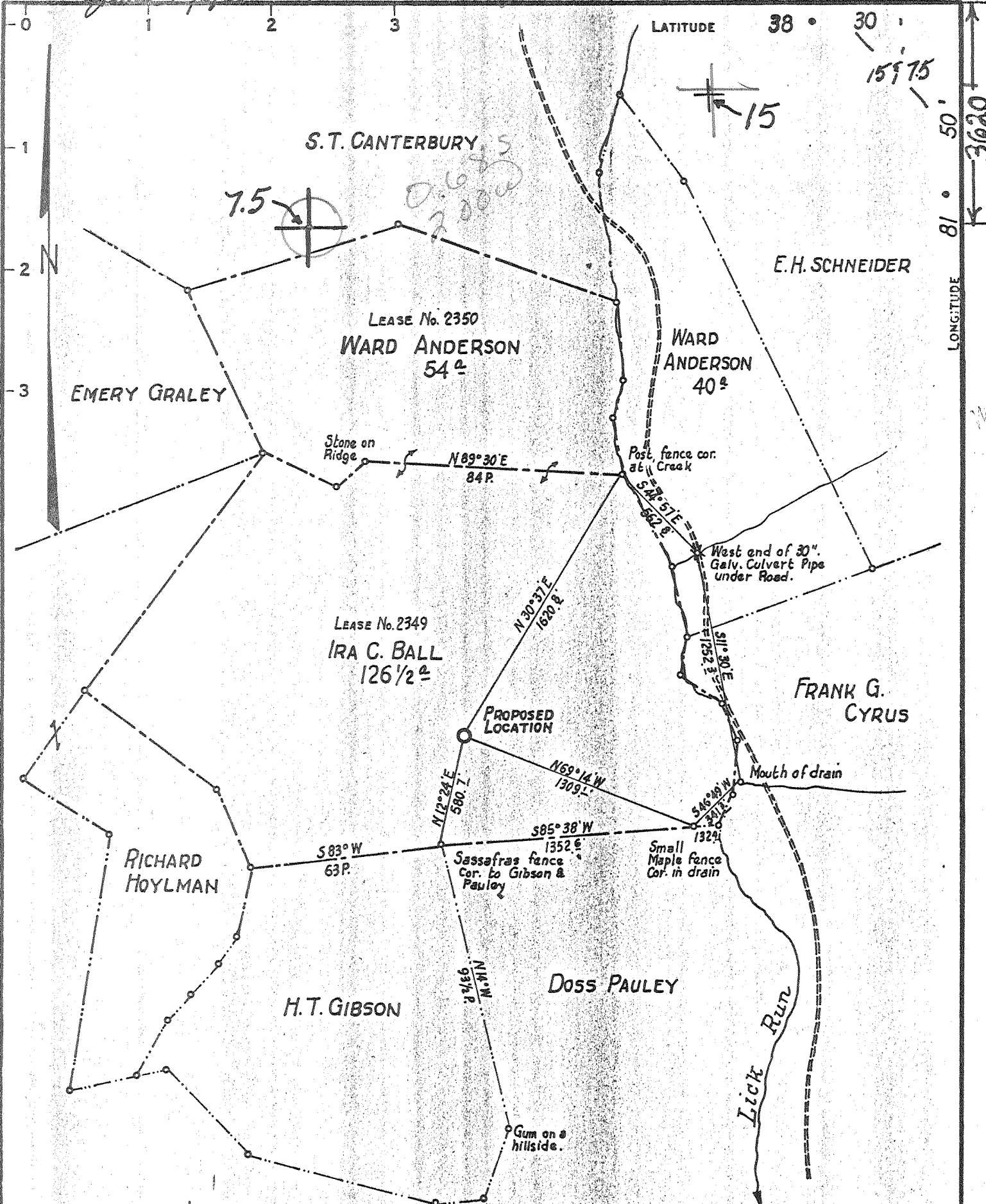


Fracture 10/6/88

10540



Fracture 10/6/88

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed *W. S. Smith* SURVEYOR

(Survey 4-21-64 W.S.G. N.B. 92 R. 31)

COMPANY ALLIANCE RESOURCES CORP.
 ADDRESS P.O. BOX 186 CHANDLER, WV 25045
 FARM IRA C. BALL ETAL - Carl Ball
 MAP WV 11 ACRES 178 1/2 LEASE NO. 2349-2350
 WELL (FARM) NO. 1 SERIAL NO. 728
 ELEVATION (SPIRIT LEVEL) 787.4' nc
 QUADRANGLE ST. ALBANS N.E. 15 SAINT ALBANS 7.5
 COUNTY PUTNAM DISTRICT SCOTT
 POINT OF PROVEN ELEVATION U.S. Army Corp. of Engineers BM. Elev. 583.875.
on top of River bank in Property Line between P.K. Fraal and Christy
 FILE NO. _____ DRAWING NO. _____
 DATE APRIL 24, 1964 SCALE 1" = 660'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Put-703
H7-079-0703-Frac
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC
 MAPS. SCALE 1" TO 62,500. LATITUDE AND LONGITUDE LINES
 BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

-OWWO- DEEP WELL 6-6 Scott Depot (212)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 30

Rotary
Spudder
Cable Tools
Storage

Quadrangle St. Albans N.E.

Permit No. Put 703

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Commonwealth Gas Corporation
Address P. O. Box 1433, Charleston, W. Va.
Farm Ira C. Ball Acres 178-1/2
Location (waters) Lick Run of Bills Creek
Well No. 728 Elev. 787.4
District Scott County Putnam
The surface of tract is owned in fee by Ira C. Ball & Ward Anderson, Rt. #1 Address Winfield, W. Va.
Mineral rights are owned by Same Address _____
Drilling commenced May 28, 1964
Drilling completed Aug. 27, 1964
Date Shot _____ From _____ To _____
With _____
Open Flow 10ths Water in _____ Inch
10ths Merc. in _____ Inch
Volume 133,000 Cu. Ft.
Rock Pressure 1350 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>None</u>
13	<u>31'</u>	<u>31'</u>	Size of _____
10	<u>547'</u>		Depth set _____
8 1/2	<u>1623'</u>	<u>1623'</u>	Perf. top <u>4565'</u>
6 1/2	<u>1877'</u>		Perf. bottom <u>4570'</u>
<u>4-1/2</u>	<u>4572'</u>		Perf. top _____
3			Perf. bottom _____
2	<u>4570'</u>	<u>4570'</u>	
Liners Used			

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

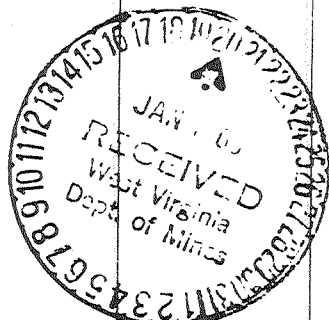
WELL FRACTURED Sept. 11, 1964 by Dowell through 4-1/2" casing with 500 gal. mud and 10,000 20/40 sand 12,600 gal. water. Well started flowing after blowing 72 hours.

RESULT AFTER TREATMENT 133,000 — Oristany

ROCK PRESSURE AFTER TREATMENT 1350# - 72 hours

Fresh Water 160 Feet 2nd 735 Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Yellow Clay			0	5			
Red Mud			5	30			
Blue Mud			30	40			
Sand			40	55			
Blue Mud			55	70			
Red Mud			70	80			
Blue Mud			80	115			
Red Rock			115	135			
Blue Slate			135	180	Water	160'	2/3 bailer per hr
Red Rock			180	195			
Sand			195	215			
Blue Slate			215	225			
Red Rock			225	245			
Blue Slate			245	265			
Red Rock			265	285			
Blue Slate			285	340			
Sand			340	349			
Blue Slate			349	360			
Red Rock			360	398			
Blue Slate			398	408			
White Slate			408	435			
Blue Slate			435	472			
Sand			472	495			
Blue Slate			495	575			
Sand			575	615			
Blue Slate			615	730			
Broken Sand			730	795	Water	735	Hole full
Blue Slate			795	855			
Sand			855	885			



179
079-0703-F

Issued 10/6/88 Expires 10/6/90
Page ___ of ___

FORM WW-2B

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

- 1) Well Operator: ⁰²⁴⁵ Alliance Resources Corp 1375, 4, 593
- 2) Operator's Well Number: 1375 Carl Ball #1 3) Elevation: 787.4'
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale, Berea Sandstone
- 6) Proposed Total Depth: 4000' feet
- 7) Approximate fresh water strata depths: 160'
- 8) Approximate salt water depths: 1780'
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Plug back from Oriskany to base of Devonian "Brown" Shale. Stimulate Devonian Shale and Berea Sandstone
- 12)

CASING AND TUBING PROGRAM EXISTING

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13"	N/A	N/A	31'	31'	surface
Fresh Water	7"	ERW	20#	1877'	1877'	400 SK
Coal						
Intermediate	7"	"	20#	1877'	1877'	400 SK
Production	4.5"	ERW	11.6#	4000'	4000'	170 sx
Tubing						
Liners						

RECEIVED
OCT 06 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

2792

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 121 Well Work Permit 33 Reclamation Fund 33 WPCP
33 Plat 33 WW-9 33 WW-2B 33 Bond 50 Blanket Agent
 (Type)

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

RECEIVED
OCT 06 1988

1) Date: 10/3/88
2) Operator's well number
Carl Ball #1
3) API Well No: 47 - 079 - 0703-FRAC
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 Carl H. Ball
Address 301 Blue Lick Rd
Winfield, WV 25213
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name Same
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____

6) Inspector Jerry Tephabock
Address Rt. 1 Box 101-A
Ripley, WV 25271
Telephone (304)- 372-6805

(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

____ 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 Alliance Resources Corp.
By: Christopher A. Farmer *Christopher A. Farmer*
Its: Agent
Address P.O. Box 186
Clendenin, WV 25045
Telephone 548-4129

Subscribed and sworn before me this ____ day of _____, 19__

Notary Public

My commission expires _____

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

Perforate 30 holes Select-Fire , 14 holes Hollow-Steel Carrier

Fracture 2-Stage 75% quality N₂ Foam, 80,000 # 20/40 sand, 300 gal. 15% HCl

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
					ALL DEPTHS MEASURED FROM G.L.
Sand and Shale			0	1304	
Salt Sand			1304	1498	
Shale			1498	1524	
Little Lime			1524	1574	
Pencil Cave			1574	1578	
Big Lime			1578	1735	
Lime and Shale			1735	1770	
Big Injun			1770	1814	
Siltstone and Shale			1814	2228	
Sunbury Shale			2228	2242	
Berea Sand			2242	2263	
Shale and Siltstone			2263	3446	
Brown and Grey Shale			3446	3882	
Shale			3882	4160	T.D. 4160'

(Attach separate sheets as necessary)

Alliance Resources Corp.
Well Operator

By: Christopher A. Farmer

Date: 12/29/88

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 ¹¹⁹² ~~mineral~~, encountered in the drilling of a well."

JUL 7 1989