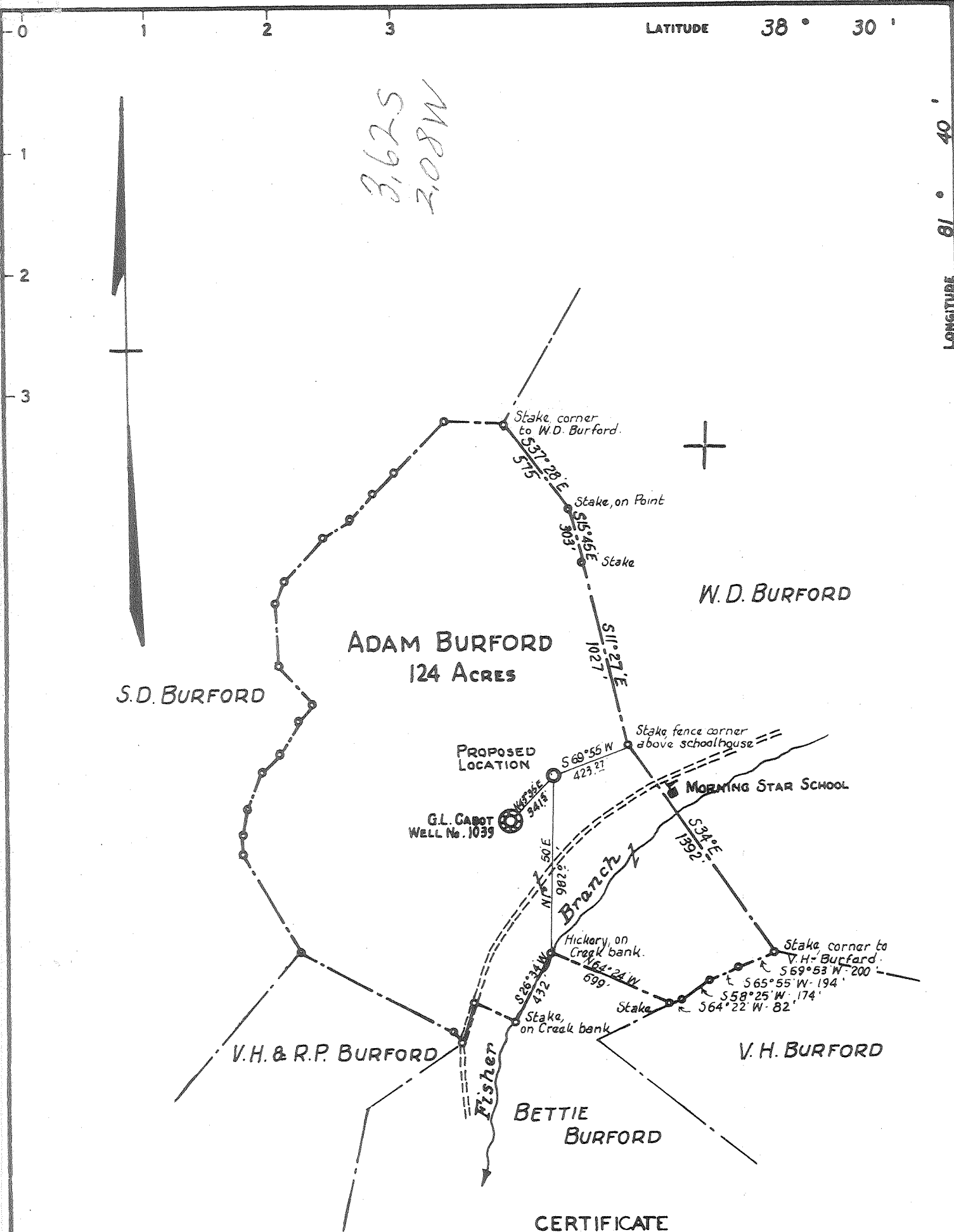


LATITUDE 38° 30'

LONGITUDE 81° 40'



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 *T.S. Johnson R.D.E.* #269

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY APPALACHIAN EXPLORATION & DEVELOPMENT INC.
 ADDRESS BOX 628 CHARLESTON, W. VA.
 FARM ADAM BURFORD ETAL
 MAP _____ ACRES 256.2 - UNIT _____ LEASE NO. _____
 WELL (FARM) NO. 2 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 702.0'
 QUADRANGLE CHARLESTON, N.W.
 COUNTY KANAWHA DISTRICT UNION
 POINT OF PROVEN ELEVATION U.S. G. S. DATUM - ROAD INTERSECTION
AT MOUTH OF FISHER BRANCH - ELEV. 696
 FILE NO. _____ DRAWING NO. _____
 DATE FEBRUARY 8, 1968 SCALE 1" = 660'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-2217
 6-6 302

◆ 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 TRACINGS.

Water Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 10

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston
Permit No. Kanawha -2217

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company <u>Appalachian Exploration & Development, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P.O. Box 628, Charleston, W. Va. 25322</u>				
Farm <u>Adam Burford</u> Acres <u>256.2</u>	Unit Size			
Location (waters) <u>At mouth of Fisher Branch</u>	<u>18 20"</u>	<u>14"</u>	<u>14"</u>	Kind of Packer
Well No. <u>2 Unit</u> Elev. <u>702'</u>	<u>13-3/8"</u>	<u>240'</u>	<u>240'</u>	<u>None</u>
District <u>Union</u> County <u>Kanawha</u>	<u>10 8-5/8"</u>	<u>1785.48'</u>	<u>1785.48'</u>	Size of
The surface of tract is owned in fee by <u>Marita M. Burford</u>	<u>8 1/4"</u>			Depth set
Address <u>Gastonia, N. Carolina</u>	<u>6 5-1/2"</u>	<u>5511.31'</u>	<u>5511.31'</u>	
Mineral rights are owned by <u>Marita M. Burford</u>	<u>5 3/16"</u>			Perf. top
Address <u>Gastonia, N. Carolina</u>	<u>4 1/2"</u>			Perf. bottom
Drilling commenced <u>February 16, 1968</u>	<u>3"</u>			Perf. top
Drilling completed <u>February 28, 1968</u>	<u>2 1-1/2"</u>	<u>5515'</u>	<u>5515'</u>	Perf. bottom
Date Shot <u>Not</u> From <u>---</u> To <u>---</u>	Liners Used			Perf. top
With <u>---</u>				Perf. bottom
Open Flow <u>---</u> /10ths Water in <u>---</u> Inch	Attach copy of cementing record. See Back of Report.			
<u>---</u> /10ths Merc. in <u>---</u> Inch	CASING CEMENTED <u>---</u> SIZE <u>---</u> No. Ft. <u>---</u> Date <u>---</u>			
Volume <u>3</u> Mmcf. <u>---</u> Cu. Ft.	Amount of cement used (bags) <u>---</u>			
Rock Pressure <u>1640</u> lbs. <u>48</u> hours	Name of Service Co. <u>Dowell</u>			
Oil <u>None</u> bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>None</u> FEET <u>---</u> INCHES			
WELL ACIDIZED (DETAILS) <u>---</u>	FEET <u>---</u> INCHES <u>---</u> FEET <u>---</u> INCHES			
WELL FRACTURED (DETAILS) <u>500 gallons mud acid treated with 20,000 gallons water and 25000 lbs. sand.</u>	FEET <u>---</u> INCHES <u>---</u> FEET <u>---</u> INCHES			
RESULT AFTER TREATMENT (Initial open Flow or bbls.) <u>17 Mmcf.</u>	<u>17,000,000</u>			
ROCK PRESSURE AFTER TREATMENT <u>1640</u>	HOURS <u>48</u> hours			
Fresh Water <u>---</u> Feet	Salt Water <u>---</u> Feet			
Producing Sand <u>Newburg</u>	Depth <u>5511.31'</u>			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top soil		S	0	35	Water	76'	
Sand & Shale		H	35	110			
Shale & Sd.		S	110	905			
Sand		H	905	1505			
Lime		H	1505	1640			
Sand		S	1640	1748	Water		
Sand & Shale		S	1748	1765			
Shale		S	1765	2175			
Sand		S	2175	2200			
Shale		S	2200	4675			
Lime (Onondaga)		H	4675	4755			4622' (log)
Sand (Oriskany)		H	4755	4815			
Sand & Lime		H	4815	5145			
Dolomite & Anhydrite		H	5145	5504			
Sandstone			5504	5513	Gas	5504'	Newburg (by log depth)
Dolomite	<u>Mckenzie</u>		5513	5540 T.D.			

