

ACCURACY: 1" = 200'

Source of Elevation WELL #1 (615.13')

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.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

revised 7/25/74

Chet Waterman

Company APPALACHIAN EXPLORATION & DEVELOPMENT, INC.

Address CHARLESTON, W. VA.

Farm H.G. MILAM ET AL

Tract _____ Acres 173 Lease No. _____

Well (Farm) No. 2 Serial No. _____

Elevation (Spirit Level) 651.7'

Quadrangle KENNA SW

County KANAWHA District UNION

Engineer CHET WATERMAN

Engineer's Registration No. 3788

File No. 68003-113 Drawing No. _____

Date 7/11/68 Scale 1" = 600'

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

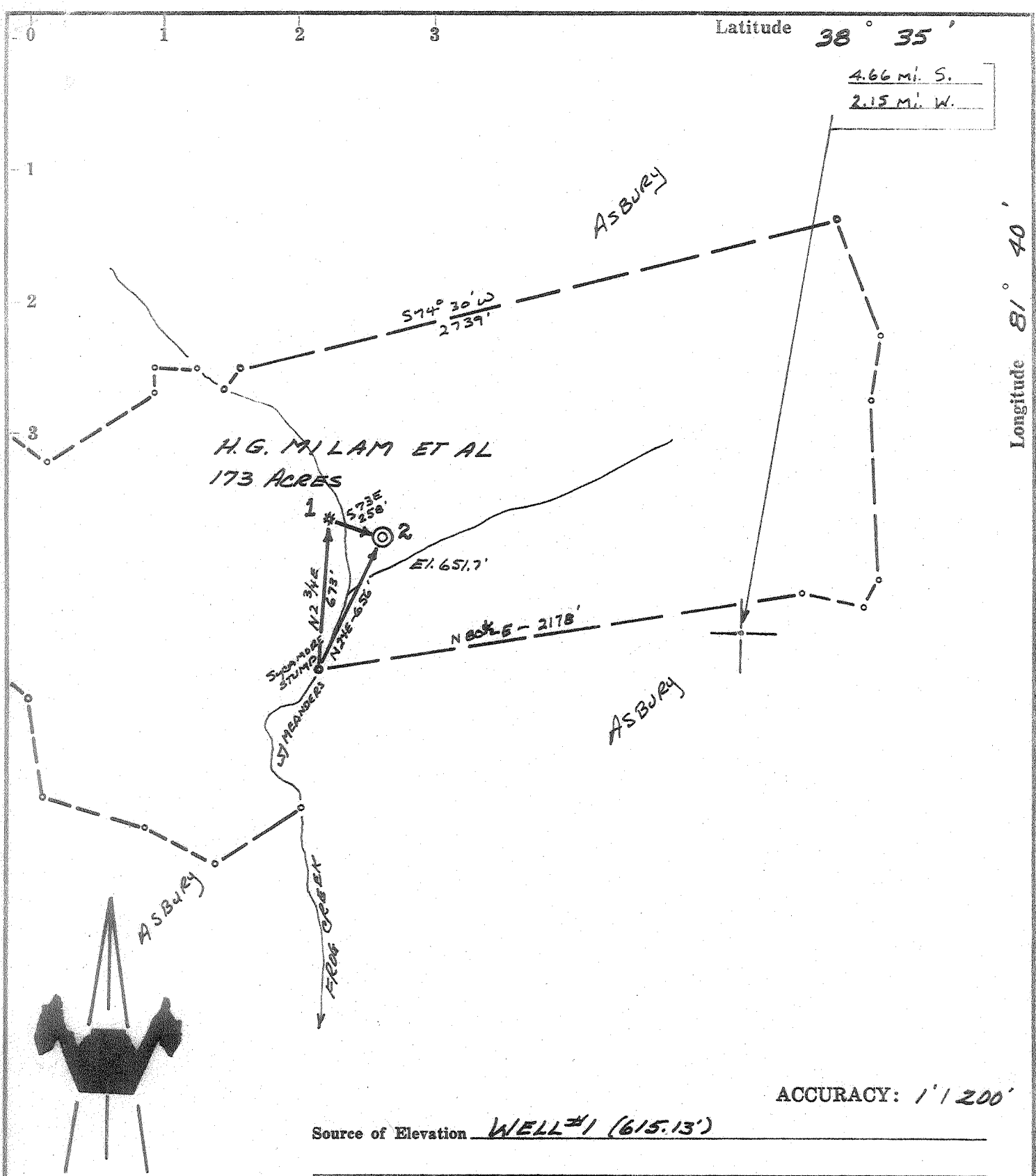
WELL LOCATION MAP
FILE NO. KAN-2287-P

+ 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.

47-039

Deep Well



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Chet Waterman

Company APPALACHIAN EXPLORATION & DEVELOPMENT, INC.
 Address CHARLESTON, W. VA.
 Farm H.G. MILAM ET AL
 Tract _____ Acres 173 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 651.7'
 Quadrangle KENNA SW
 County KANAWHA District UNION
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
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Deep well (new)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Kenna S.W.

WELL RECORD

Permit No. Kanawha - 2287

Oil or Gas Well Gas
(KIND)

Company Appalachian Exploration & Development, Inc.
Address Box 628, Charleston, West Virginia
Farm H. G. Milam Acres 173
Location (waters) Pocatalico
Well No. 2 Elev. 651.7
District Union County Kanawha
The surface of tract is owned in fee by H. G. Milam
1112 Rosalie Drive Address Charleston, W.Va.
Mineral rights are owned by H. G. Milam
1112 Rosalie Drive Address Charleston, W.Va.
Drilling commenced 8-18-68
Drilling completed 9-4-68
Date Shot None From To
With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>None</u>
16			
13-3/8	68	68	
10			Size of
9-5/8	1860	1860	
7	5455	5455	Depth set
5 3/16			
4 1/2			
3			Perf. top <u>None</u>
2-3/8	5475	5475	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
Volume 75,000 Cu. Ft.
Rock Pressure 1875 lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) 22,000# sand, 1500 gallons mud acid, 800 barrels water.

Attach copy of cementing record. (See back of sheet.)
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 3,500 Mcf. 3,500 Mcf
ROCK PRESSURE AFTER TREATMENT 1875 HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Newburg Depth 5506

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay & shale		Soft	0	30			
Sand		Soft	30	90			
Shale		Soft	90	105			
Sand		Soft	105	210			
Sand & shale		Soft	210	540			
Sand		Soft	540	640			
Sand & shale		Soft	640	1050			
Sand		Soft	1050	1560			
Big Lime		Hard	1560	1680			
Sand - <u>Irwin</u>		Soft	1680	1740			
Lime & shale		Soft	1740	1775			
Sand & shale		Soft	1775	2135			
Shale		Soft	2135	4627			
Lime - <u>Onondaga</u>		Hard	4627	4727			
Sand (Oriskany)		Hard	4727	4765			
Lime		Hard	4765	5475			
Sand (Newburg)		Hard	5475	5487			

