

ACCURACY: 1/2000

Source of Elevation BRIDGE OVER LITTLE SANDY (566')

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  5/5/78
- Fracture
- Redrill

*Chet Waterman*

Company DONALD H. VERNAU  
 Address PO. Box 398 Brongille OH 43023  
 Farm C. BUNNER ET AL  
 Tract \_\_\_\_\_ Acres 143 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 619.8'  
 Quadrangle RAVENSWOOD NE  
 County JACKSON District GRANT  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 69009-19 Drawing No. \_\_\_\_\_  
 Date 1/18/69 Scale 1" = 20P

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

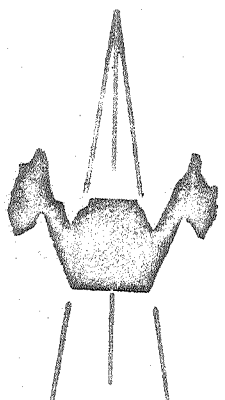
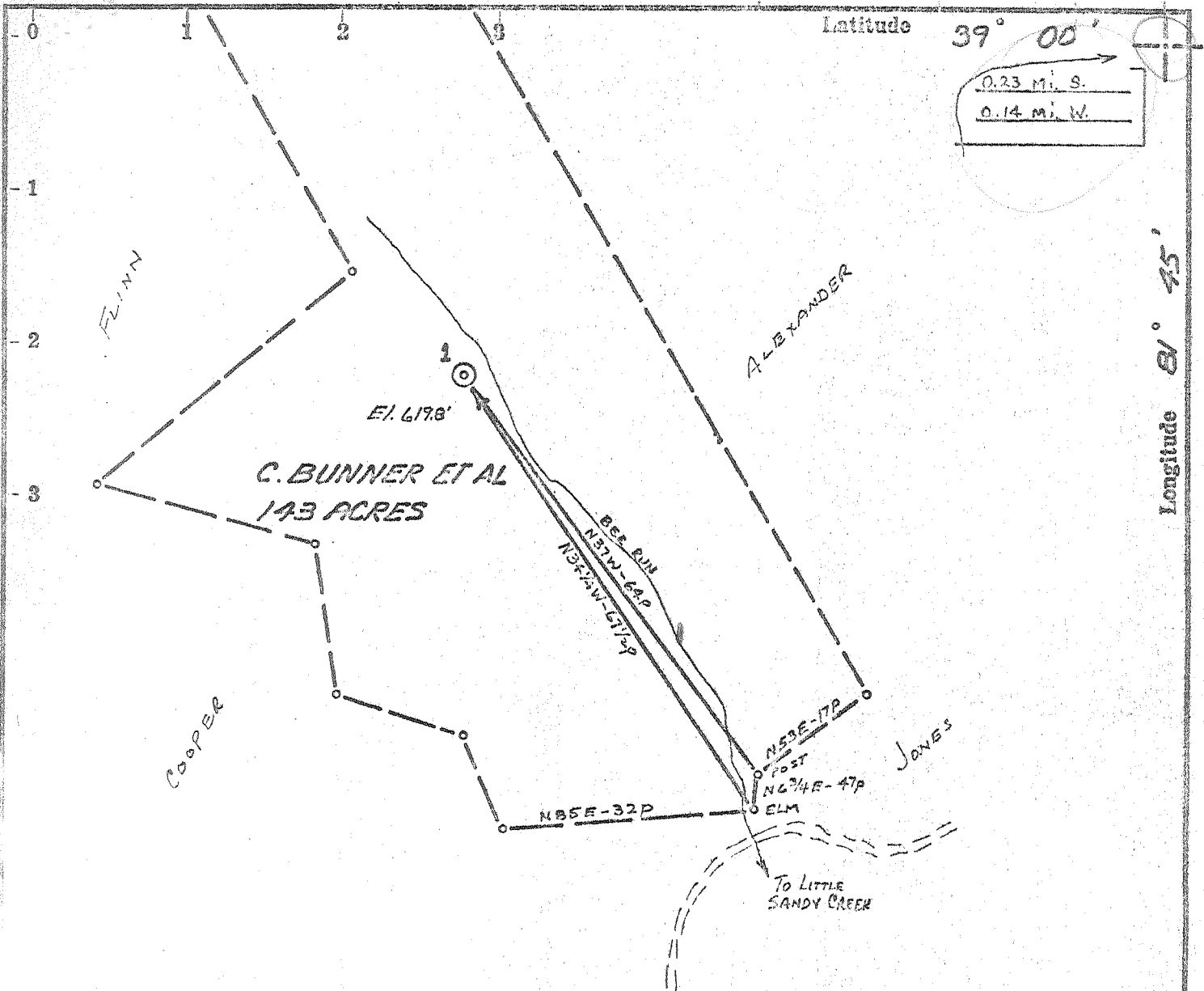
WELL LOCATION MAP  
 FILE NO. JAC-1168-P

+ 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.

47-035 MAY 15 1978

*Deep well*



ACCURACY: 1/200P

Source of Elevation BRIDGE OVER LITTLE SANDY (566)

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

*Chet Waterman*

Company HUNTING OIL CO. INC.  
 Address 14701 DETROIT AVE. LAKEWOOD, OHIO 44107  
 Farm C. BUNNER ET AL  
 Tract \_\_\_\_\_ Acres 143 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 619.8'  
 Quadrangle RAVENSWOOD NE  
 County JACKSON District GRANT  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 69003-13 Drawing No. \_\_\_\_\_  
 Date 1/18/69 Scale 1" = 200'

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

**WELL LOCATION MAP**  
 FILE NO. JAC-1168

+ 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.

Deep Well (Newburg) 1-1 Unnamed 0



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

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Ravenswood  
Permit No. JAC-1168

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company <u>Hunting Oil Company, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>14701 Detroit Ave., Lakewood, Ohio</u>	Size			
Farm <u>C. E. Bunner</u> Acres	16			Kind of Packer <u>None</u>
Location (waters) <u>1214' S &amp; 739' W</u>				
Well No. <u>#1-A</u> Elev. <u>6198' G.L.</u>	13 <u>3/4"</u>	<u>30"</u>	<u>30"</u>	
District <u>Grant</u> County <u>Jackson</u> Elev. <u>622' D.F.</u>	10 <u>3/4"</u>	<u>585"</u>	<u>585"</u>	Size of
The surface of tract is owned in fee by <u>Bunner</u>	<del>8 5/8"</del>	<u>1131"</u>	<u>1131"</u>	Depth set
Address	<del>7"</del>	<u>2105"</u>	<u>2105"</u>	
Mineral rights are owned by <u>C. E. Bunner, H. Price, E. Price, O.S. Salsor, Ritchie</u>	5 <del>3/4"</del> <u>3 1/2"</u>	<u>4950"</u>	<u>4950"</u>	
Address <u>Sherman, W. Va.</u>	4 1/2			Perf. top <u>4276'</u>
Drilling commenced <u>2-1-69</u>	3	<u>4413"</u>	<u>4413"</u>	Perf. bottom <u>4196'</u>
Drilling completed <u>6-4-69</u>	2 <u>3/8"</u>	<u>None</u>		Perf. top
Date Shot From To <u>6-4-69</u>	Liners Used			Perf. bottom

With fillup

Open Flow 10ths Water in Inch Attach copy of cementing record.

10ths Merc. in Inch CASING CEMENTED 5 1/2" SIZE 1120' No. Ft. 5-2-69 Date

Volume 512 MCFPD Cu. Ft. Amount of cement used (bags) 70 sks

Rock Pressure 512 MCFPD lbs. hrs. Name of Service Co. Williams & Hitt

Oil 512 MCFPD bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT FEET INCHES

WELL ACIDIZED (DETAILS) 500 gal. HCl FEET INCHES FEET INCHES

6-3-69 FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) Fraced with Halliburton. Pumped 915 bbl fresh water, 30,000 #

20/40 sand & 4,000 # 10/20 sand. (6-4-69)

RESULT AFTER TREATMENT (Initial open flow or bbls) 512 MCFPD 512,000

ROCK PRESSURE AFTER TREATMENT 1460 psi HOURS 48

Fresh Water 52' Feet 300' Salt Water 900' Feet 1110'

Producing Sand Helderberg Oriskany Onondaga Depth 4275'

4264-76 4256-64 4196-4256

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Permian			Surface	16'			
Pennsylvania		Cyclothem	16'	1462'	Water	52'	
Maxville		Limestone	1462'	1502'	Water	300'	
Logan		Sandstone & Shale	1502'	1980'	Salt Water	900'	Show oil & gas
Sunbury		Shale	1980'	1997'	Salt Water	1110'	
Berea		Sandstone	1997'	2014'			
Bedford		Shale	2014'	2238'			
Ohio		Shale	2238'	4174'	Gas	2238'	Show
Onondaga - 463		Limestone	4174'	4256'			
Oriskany		Sandstone	4256'	4264'			
Helderberg			4264'	4466'	Gas	4275'	
Salina			4466'	4962'			
Williamsport		Sandstone	4962'	4966' TD			

535

4966  
4276  
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690'

D.H. footage

MAY 1 1970