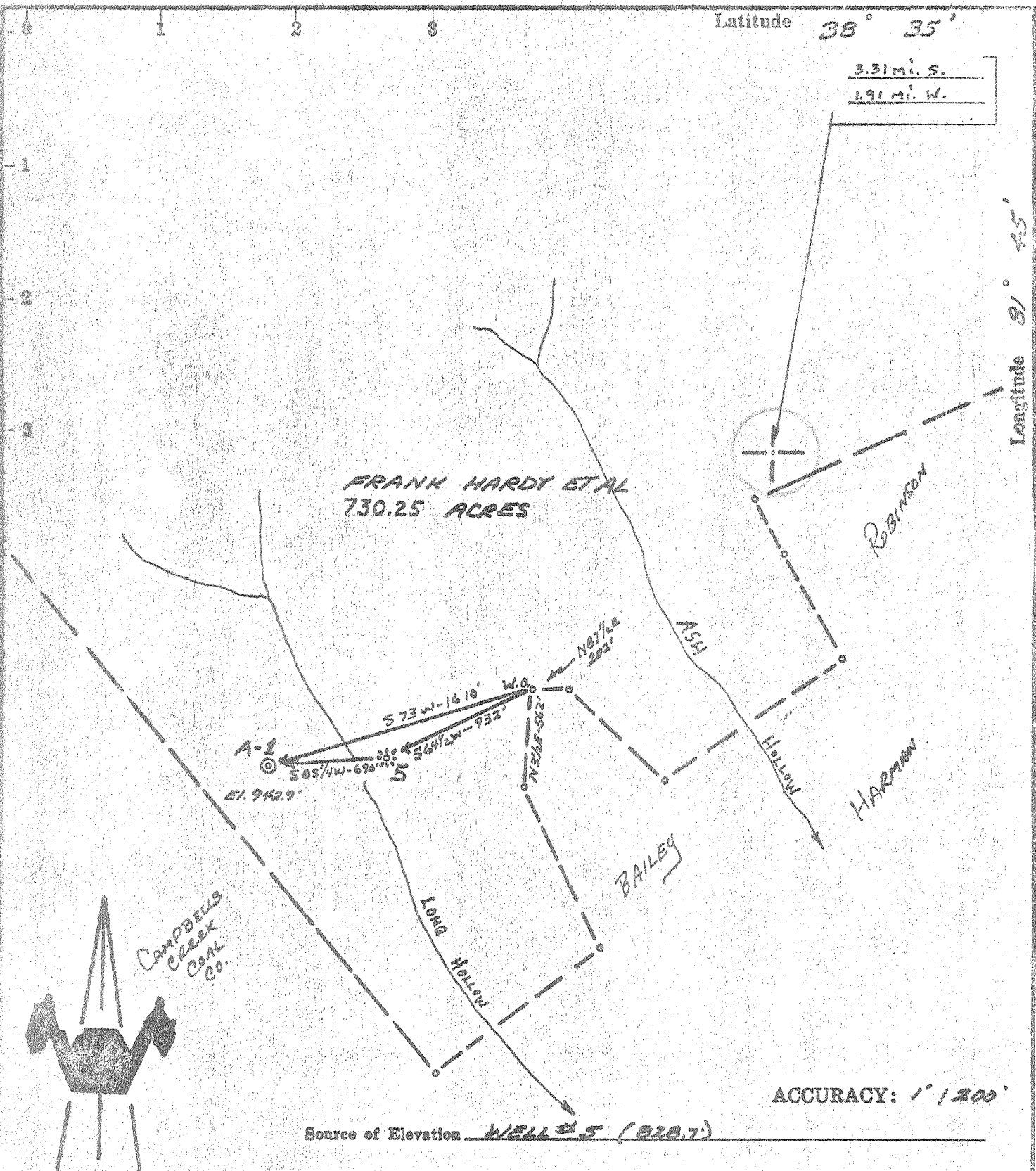


5/2/1969



Latitude 38° 35'

3.31 mi. S.  
1.91 mi. W.

Longitude 81° 45'

FRANK HARDY ET AL  
730.25 ACRES

A-1  
E1. 942.9'

S 73 W - 16 1/2'

W.O.

S 64 1/2 W - 932'

N 34 1/2 E - 562'

N 87 1/2 E - 202'

ASH

HOLLOW

ROBINSON

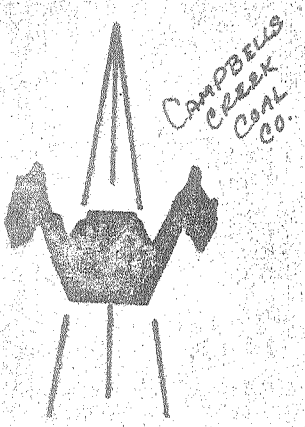
HARMAN

BAILEY

Lone Hollow

ACCURACY: 1' / 200'

Source of Elevation WELL #5 (828.7)



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

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.

issued 6-18-69

*Chet Waterman*

Company APPALACHIAN EXPLORATION & DEVELOPMENT, INC.  
 Address CHARLESTON, W. VA.  
 Farm FRANK HARDY ET AL  
 Tract Acres 730.25 Lease No.  
 Well (Farm) No. A-1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 942.9'  
 Quadrangle WINEFIELD SE  
 County PUTNAM District POCA  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 69003-120 Drawing No. \_\_\_\_\_  
 Date 4/23/69 Scale 1" = 800'

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

WELL LOCATION MAP  
FILE NO. PUT-757-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.

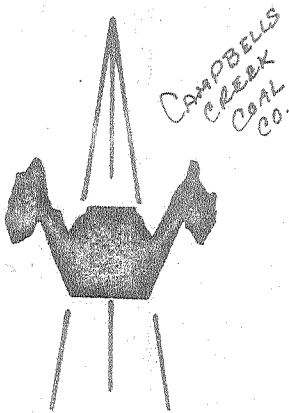
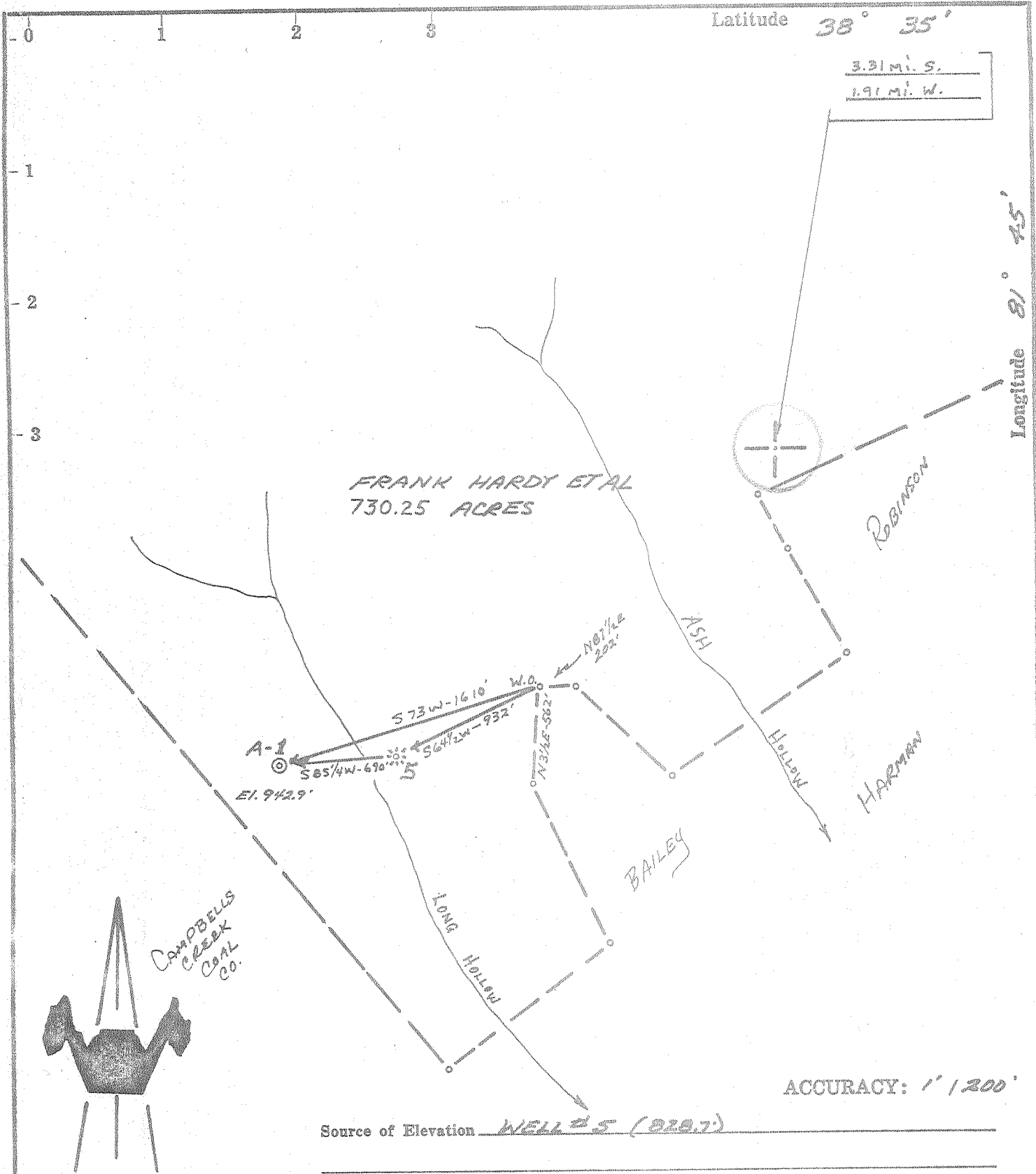
- Denotes one inch spaces on border line of original tracing.

*Deep Well (Oriskany)*

6-0 Sissonville (Elk-Poca) 192

JUL 0 5 1969

5/23/69



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

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.

*Chet Waterman*

Company APPALACHIAN EXPLORATION & DEVELOPMENT, INC.

Address CHARLESTON, W. VA.

Farm FRANK HARDY ET AL

Tract Acres 730.25 Lease No. \_\_\_\_\_

Well (Farm) No. A-1 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 942.9'

Quadrangle WINEFIELD 5E

County PUTNAM District POCA

Engineer CHET WATERMAN

Engineer's Registration No. 3788

File No. 69003-120 Drawing No. \_\_\_\_\_

Date 4/23/69 Scale 1" = 800'

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

WELL LOCATION MAP  
FILE NO. PUT-757

+ 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.

6-0 Sissonville (Elk-Poca) 192

Deep Well  
(Oriskany)  
MAY 20 1969  
Wills Creek



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

Rotary   
Spudder   
Cable Tools   
Storage

Oil or Gas Well  (Dry)

Form OG-10  
Quadrangle Winfield  
Permit No. Putnam - 757

WELL RECORD

Company Appalachian Exploration & Development, Inc.  
Address P.O. Box 628, Charleston, W.Va. 25322  
Farm Frank A. Hardy Acres 730.25  
Location (waters) Hizer  
Well No. A-1 Elev. 942.9  
District Poca County Putnam  
The surface of tract is owned in fee by Lovell Slater  
Rt. 1, Box 55 Address Poca, West Virginia  
Mineral rights are owned by Frank A. Hardy, c/o Kanawha  
Valley Bank, Agent, Address Charleston, W.Va.  
Drilling commenced May 15, 1969  
Drilling completed May 24, 1969 (Plug)  
Date Shot Not shot From          To         

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13-3/8	63'	63'	
10			Size of
8-5/8	2200'	2200'	
6-3/4			Depth set
5-1/2	5717'	3317'	
4-1/2			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Open Flow /10ths Water in          Inch  
/10ths Merc. in          Inch  
Volume          Cu. Ft.  
Rock Pressure          lbs.          hrs.  
Oil          bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) None  
WELL FRACTURED (DETAILS) None

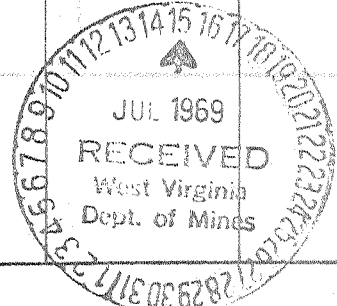
Attach copy of cementing record. (See back of sheet.)  
CASING CEMENTED          SIZE          No. Ft.          Date           
Amount of cement used (bags)           
Name of Service Co. Halliburton  
COAL WAS ENCOUNTERED AT          FEET          INCHES  
         FEET          INCHES          FEET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

RESULT AFTER TREATMENT (Initial open Flow or bbls.)           
ROCK PRESSURE AFTER TREATMENT          HOURS  
Fresh Water 105 Feet          Salt Water 1735 Feet           
Producing Sand None Depth         

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandstone		Soft	0	40			
Sand & shale		"	40	265	Fresh water	105	
Shale		"	265	335			
Shale-red rock			335	470			
Shale			470	1095			
Sand			1095	1155			
Shale-red rock			1155	1185			
Sand-shale			1185	1210	Salt wtr.	1735	Big Lime
Sand			1210	1225			
Shale-sand			1225	1615			
Sand <u>Salt</u>			1615	1890			
Limestone			1890	2100			
Sand			2100	2145			
Lime & shale			2145	2180			
Shale			2180	4925			
Limestone			4925	5000			Onondaga
Sand (Oriskany)			5000	5035	Gas	5014	Oriskany
Limestone <u>Heiderberg</u>			5035				

TD 5717 Wills Creek Fm. (?)

Note - Drln's log incomplete  
TD 5717, Unable to recover  
4 drill collars  
Junked & Abdn



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>PIPE AND CEMENT RECORD</u>							
5-16-69	Set 13-3/8" @ 72' cemented with		50	sacks			
5-23-69	Set 8-5/8" @ 2192' cemented with		600	sacks			
5-28-69	Set 5-1/2" @ 5717' cemented with		200	sacks			

Date July 14, 1969  
 APPALACHIAN EXPLORATION & DEVELOPMENT, INC.  
 APPROVED *Jenna Salo*, Owner  
 By Field Engineer  
 (Title)