

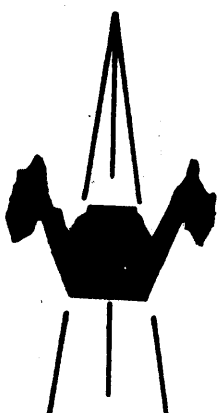
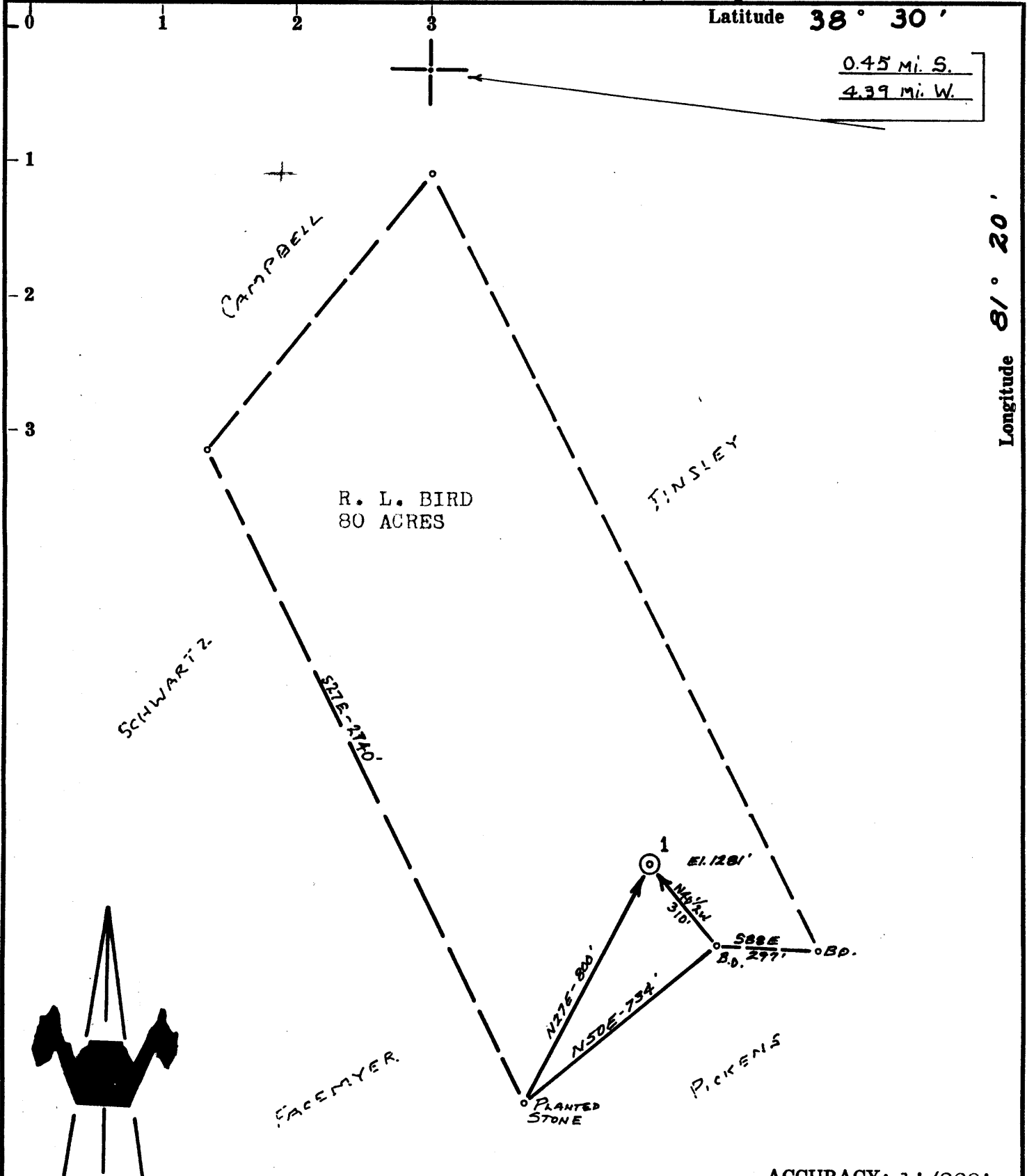
10 850

Latitude 38° 30'

0.45 Mi. S.
4.39 Mi. W.

Longitude 81° 20'

81° 22' 30"



ACCURACY: 1" / 200'

Source of Elevation USBM #J-96 Culvert on Wills Creek 790'

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 mining laws of West Virginia.

Chet Waterman

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

Company Quaker State Corporation
 P.o. Bx. 189-Belpre, Ohio 45714-0189
 Surface: Harold Tinsley
 Well No: R.L. Bird #1

Farm _____
 Tract _____ Acres 80 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1281'
 Quadrangle CLENDENIN
 County KANAWHA District BIG SANDY
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 67003-22 Drawing No. _____
 Date 3/24/67 Scale 1" = 400'

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

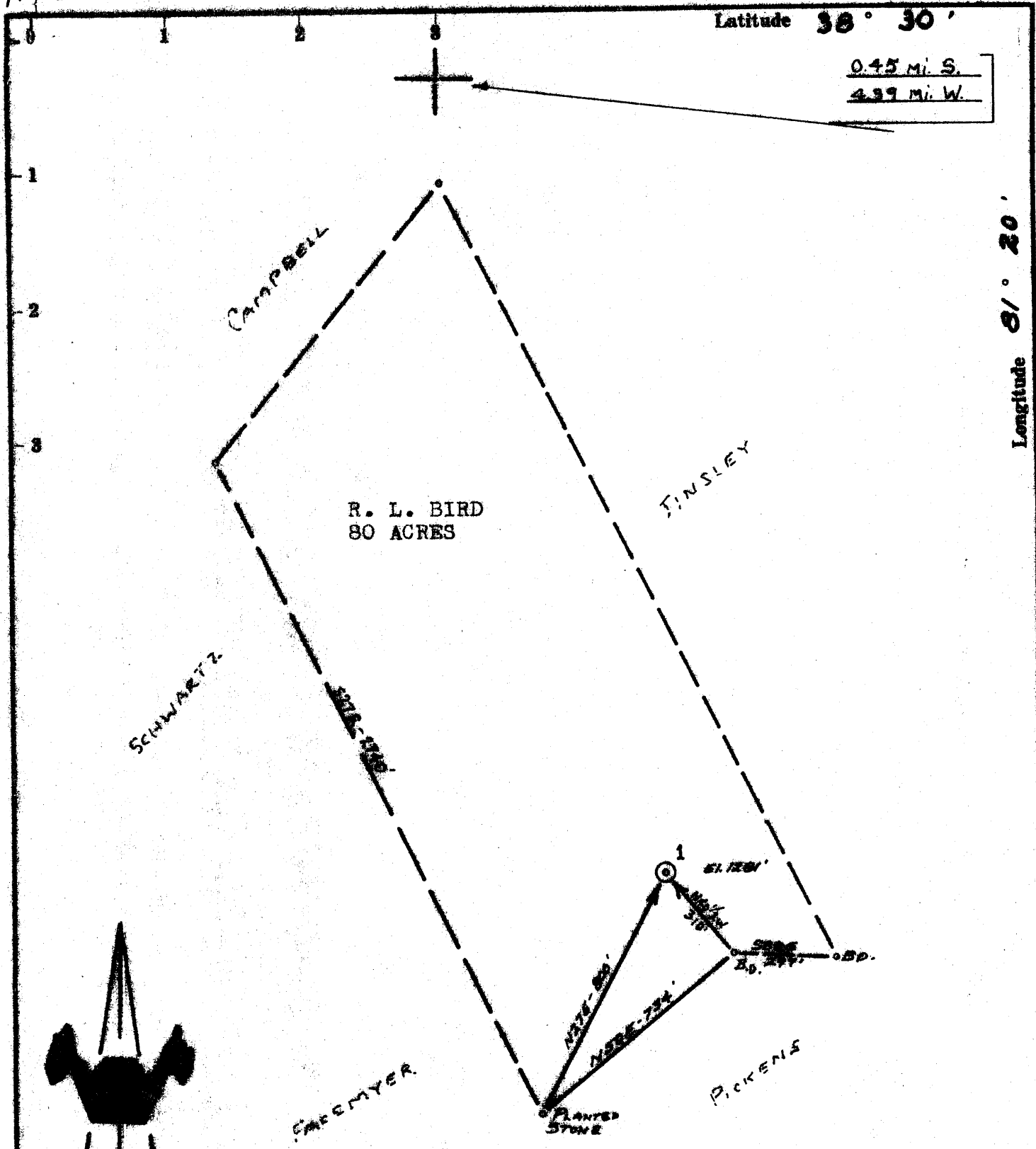
WELL LOCATION MAP

FILE NO. KAN - 2102 - 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.

APR 20 1992



- New Location
- Drill Hoop
- Abandonment
- Fracture
- Redrill

Source of Elevation USBM #J-96 Culvert on Wills Creek 790'

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.

Company	JOSEPH S. GRUSS	
Address	SPENCER, W. VA.	
Farm	R. L. BIRD	
Tract	Acres 80	Lease No.
Well (Farm) No.	1	Serial No.
Elevation (Spot Level)	1281'	
Quadrangle	GLENDENIN	NC
County	KANAWHA	District BIG SANDY
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	67003-22	Drawing No.
Date	3/24/67	Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. KAN - 2102

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MAR 31 1967

6-6-217



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Rotary
Spudder
Cable Tools
Storage

Quadrangle Clendenin

WELL RECORD

Permit No. KAN-2102

Oil or Gas Well Oil
(KIND)

Company Joseph S. Gruss
Address P. O. Box 471 Spencer, W. Va.
Farm R. L. Bird Acres 80
Location (waters) Wills Creek
Well No. 1 Elev. 1281'
District Big Sandy County Kanawha
The surface of tract is owned in fee by H. Tinsley
Wills Creek Address Clendenin, W. Va.
Mineral rights are owned by R. L. Bird etal
Address Charleston, W. Va.
Drilling commenced 4/6/67
Drilling completed 4/12/67
Date Shot From To
With

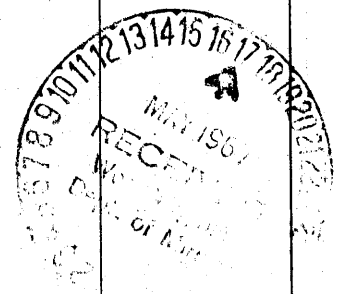
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			Depth set
8 1/4	158	158	
6 5/8			
5 3/16			Perf. top
4 1/2			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil No Show bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) 250 gals. 15% Reg.
WELL FRACTURED (DETAILS) 24,500 #20/40 sand and 28,000 gallons gelled fresh water.

Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 2539 No. Ft. 4/12/67 Date
Amount of cement used (bags) 165
Name of Service Co. HOWCO
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls) 15 BOPD
ROCK PRESSURE AFTER TREATMENT 150 HOURS 24
Fresh Water Feet Salt Water Feet
Producing Sand Big Injun Depth 2230

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Rotary			0	5			
Shale, sand, rock			5	99			
Rock and sand			99	162			
Rock and sand			162	325			
Red rock and shale			325	365			
Red rock and sand			365	600			
Blue slate			600	625			
Sand and shale			625	680			
Slate and shale			680	875			
Sand and shale			875	1093			
Sand, shale and slate			1093	1315			
Sand and shale			1315	1495			
Salt sand			1495	1660			
Lime			1660	1685			
Salt sand			1685	1695			
Salt sand			1695	1832			
Salt sand			1832	1941			
Salt sand			1941	1995			
Lime			1995	2037			



Formation	Color	Hard or Soft	Top ⁷	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			2037	2116			
Lime			2116	2187			
Lime			2187	2226			
Injun			2226	2260			
Sandy shale			2260	2280			
Sandy shale			2280	2312			
Sand and shale			2312	2335			
Slate and lime			2335	2348			
Sand and shale			2348	2415			
Stuck pipe @ 2230 in Injun sand			2348				
Sand and shale			2415	2485			
Lime and shale			2485	2522			
Sandy shale			2522	2619			
Shale			2619	2652			
Sand Berea?			2652	2662			
Sandy shale			2662	2707			
Shale			2707	2750	T.D.		

Date April 25, 19 67

APPROVED JOSEPH S. GRUSS, Owner

By I. N. Hickox (I. N. Hickox)
(Title)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: TINSLEY, HAROLD Operator Well No.: R.L. BIRD #1

LOCATION: Elevation: 1281.00 Quadrangle: BLUE CREEK
District: BIG SANDY County: KANAWHA
Latitude: 2600 Feet South of 38 Deg. 30 Min. 0 Sec.
Longitude 11200 Feet West of 81 Deg. 22 Min. 30 Sec.

Well Type: OIL _____ GAS _____ WASTE DISPOSAL X

Company: Quaker State Corporation Coal Operator N/A
P. O. Box 189 or Owner _____
Belpre, OH 45714 _____

Agent: Frank Rotunda Coal Operator N/A
or Owner _____

Permit Issued: 04/14/92

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Kanawha ss:

George Cumberledge and Roger Atkinson

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Carlos Hively Oil and Gas Inspector representing the Director, say that said work was commenced on the 7th day of May, 1992, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Class A CMT (15SX)	2225'	2025'		
6% GEL	2025'	442'	917' 4 1/2"	1622' 4 1/2"
Class A CMT (185 SX)	442'	0		158' 8 5/8"

Description of monument: 6 5/8
and that the work of plugging and filling said well was completed on the 8th day of May, 1992.

And further deponents saith not.

Sworn and subscribe before me this 22 day of June, 1992
My commission expires: March 14, 1995

Dolores L. Branch
Notary Public, State of Ohio
My Commission Expires March 14, 1995

George Cumberledge
Roger L. Atkinson
Dolores L. Branch
Notary Public

Oil and Gas Inspector: Carlos W. Hively JUN 26 1992