

Minimum Error of Closure 1 in 200

Source of Elevation E.H. Stearman No. 1-B = 1065

Fracture
 Non-Location
 Drill Deeper
 Abandonment 1-15-71

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.

Signed: W. H. St. John
 Squares: N 3 E 1 W

Company John R. Warren dba Warren Drilling Company
 Address 1215 United Founders Tower Oklahoma City, Oklahoma
 Farm Edna Smith
 Tract _____ Acres 130 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 943
 Quadrangle Nadis WC
 County Doddridge District Cow
 Engineer W. H. St. John
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 7, 1970 Scale 1" = 400' = 660'

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

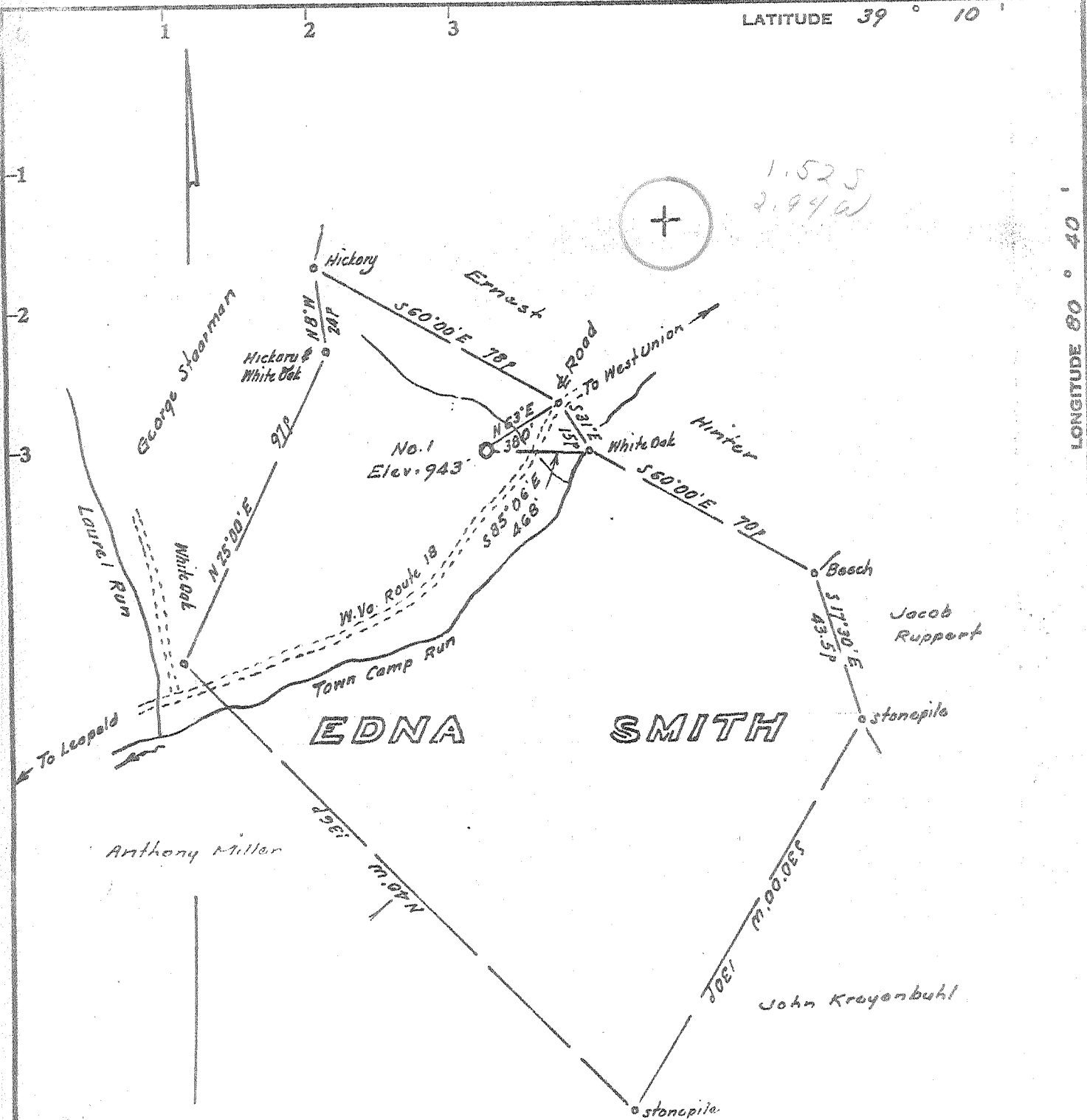
WELL LOCATION MAP

FILE NO. DOD-1546-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.

LATITUDE 39° 10'

LONGITUDE 80° 40'



Minimum Error of Closure 1 in 200

Source of Elevation F. & H. Staarman No. 1-A - 1065

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.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: Walter J. [Signature]
Squares: N S E W

Map No. _____

Company John R. Warren dba Warren Drilling Company

Address 1215 United Founders Tower Oklahoma City, Oklahoma

Farm Edna Smith

Tract _____ Acres 130 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 943

Quadrangle Nadis WC

County Doddridge District Coun

Engineer Walter J. [Signature]

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date March 7, 1970 Scale 1" = 400' = 660'

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

WELL LOCATION MAP
FILE NO. DOD-1586

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Rotary
Spudder
Cable Tools
Storage

Quadrangle Vadis SW
Permit No. DOD 1586

WELL RECORD

Oil or Gas Well **DRY**
(KIND)

Company JOHN R. WARREN DBA WARREN DRILLING CO.
Address 1215 UNITED FOUNDERS BUILDING
OKLAHOMA CITY, OKLA. 73112
Farm Edna Smith Acres 130
Location (waters) Cove
Well No. One (1) Elev. 943'
District Cove County Doddridge
The surface of tract is owned in fee by Edna Smith
Address Leopold, W.Va.
Mineral rights are owned by Edna Smith et al
Address Leopold, W.Va.
Drilling commenced 4/12/70
Drilling completed 4/27/70
Date Shot none From none To none
With none

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		20	
13		20	
10			Size of
8 1/4	137	137	
6 3/4			Depth set
5 3/16			
4 1/2	2260	2260	
3			Perf. top <u>2115'</u>
2			Perf. bottom <u>2133'</u>
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in none Inch
/10ths Merc. in none Inch

Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 2260 No. Ft. 4/30/70 Date
Amount of cement used (bags) 50 cu. ft. Type I, 50 cf Litepoz
Name of Service Co. Dowell tn 1-12 4410

Volume unknown Cu. Ft.
Rock Pressure unknown lbs. hrs.
Oil show bbls., 1st 24 hrs.

COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS) 1300 Bbls. Water, 36500# sand, 250 gals. acid, 13.2 RPM at 2773 psi.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) show oil (First Fracture Now Pumps Only Water)

ROCK PRESSURE AFTER TREATMENT 150 HOURS 60

Fresh Water 105 Feet Salt Water 1520' Feet
Producing Sand Big Injun Sand Depth 2115-2178'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
clay			0	5			
red rock			5	14			
sand			14	17			
red rock			17	96			
sand, slate & shells			96	195			
shale, red rock			195	245			
lime			245	260			
sand, slate			260	369			
red rock & shale			369	625			
lime & shale			625	750			
red rock & shale			750	849			
sand			849	882			
sand & shale			882	1059			
lime & shale			1059	1155			
shale			1155	1200			
slate & rr			1200	1255			
sand			1255	1260			
shale & sand			1260	1400			
sand			1400	1415			
shale			1415	1500			
sand			1500	1600			
shale			1600	2705			
sand			1705	1725			
sandy shale			1725	1810			
sand			1810	1839			

O V E R

RECEIVED
DEC 23 1970
OIL & GAS DIVISION
DEPT. OF MINES

Formation	Color	Hard or Soft	Top 2	Bottom	Oil, Gas or Water	Depth Found	Remarks
shale			1839	1900			
sand			1900	1928			
shale			1928	1968			
sand			1968	1979			
shale			1979	1985			
lime			-1985	2012			
shale			2012	2034			
lime			-2034	2106			Big Lime
sand	Big Injun		2106	2186			Big Injun
shale			2186	2160			
TOTAL DEPTH			2260				

Date 12/18/70, 10

APPROVED WARREN DRILLING COMPANY, Owner

By [Signature] (Title) Consultant