

LATITUDE

39° 20' 00"

90° 57' 08"

1.195
0.19 W
0.19

LONGITUDE

7.5 OGIS topo location 1.195

7.5' loc.

15' loc ~~7.185~~
(calc.) ~~0.22 W~~

0.19 W

Company H. M. G. Co. 4/46

Farm E. C. Tetrick

Elev. 1160' top East

Quad Wolf Summit / Clark SW

County Harrison

District Sardis

WELL LOCATION MAP

File No. 033-1402

HOPE NATURAL GAS COMPANY

LOCATION FOR WELL NO. 446

DISTRICT

Farm, on waters of Kary

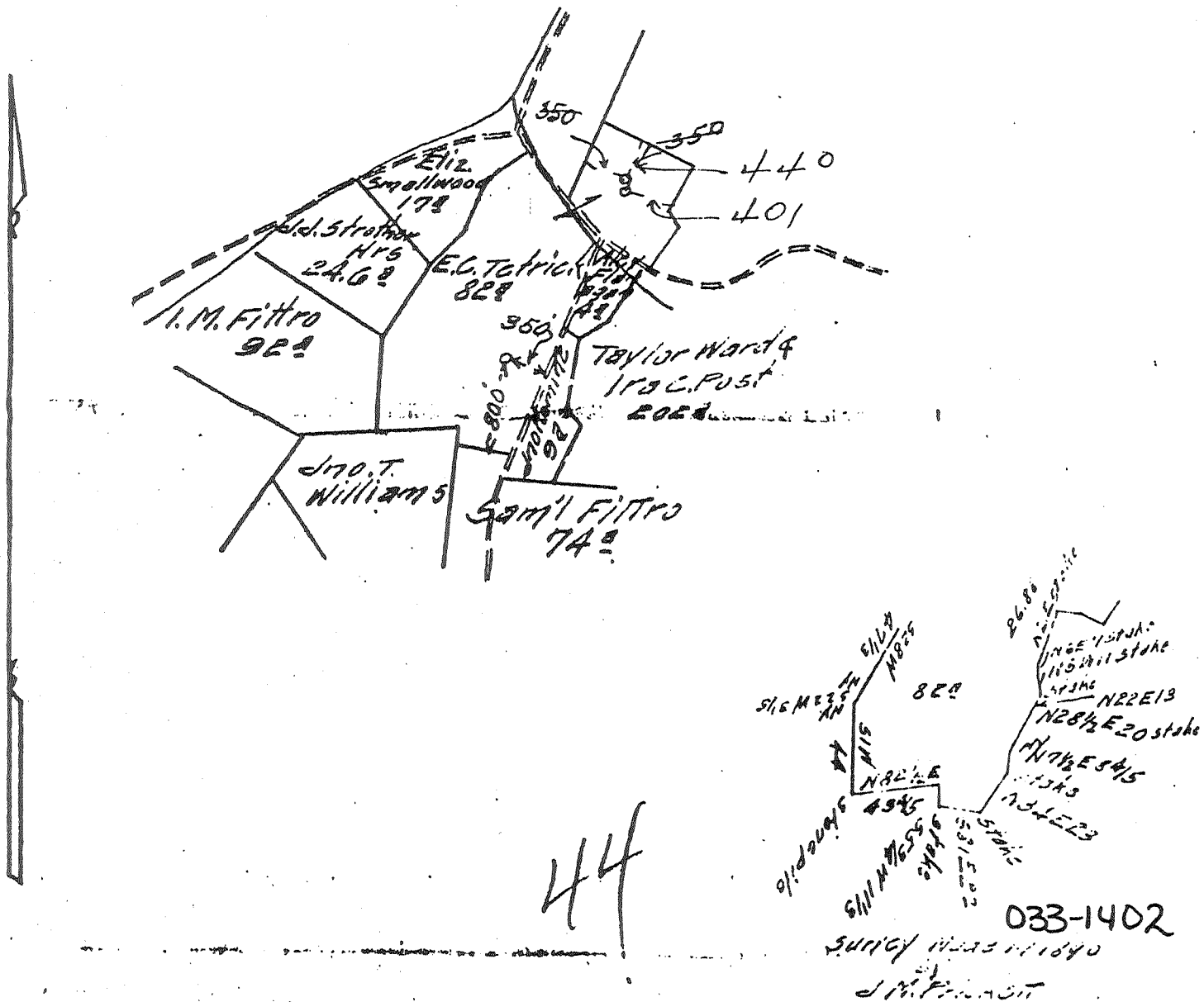
District, Kanawha

County, West Virginia.

Lease No. 2277 Acres 82 N. 10 E. 11 W.

Scale one inch equals 80 Poles Location made in Pittsburgh Jul 23 1916 Sent to Clarksburg 23 1916

Location to be 800 feet from Sam'l Fittro farm and 350 feet from



TITLE RESERVE The oil and gas
accumulated buildings
 SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE Commencement of production
 Same Lease on which Located Well No. 302
 Entered 10 parcels James Macdonald Dec 10 1916
 Location made 3-7-16 by P. Reatt As per plat, except as noted. On field map
3-8-16 Returned to Pittsburgh 3-8-16
 Location changed on account of Reservation
 Authorized by J.B. Carrin Date 3-7-16 Signed M.T. Bradley
4-7-16 rep.

Well No. 4140 District W.Va.
 Located on E. C. Litch County Harmon State W.Va.
 District W.Va. County Harmon State W.Va.
 Location Made 4-6-1916 First Work Done 4-6-1916
 Rig Commenced Apr 6-16 Rig Completed Apr 13-1916 105
 Drilling Commenced Apr 17-1916 Drilling Completed June 7-1916 11E
 Rig Contractor Hopkins & Co Drilling Contractor Hopkins & Co
 Drillers H. E. Southern and J. H. Keener H. H. S. Co. Tools, String No. Hopkins
 Tool Dressers J. H. Keener and J. H. Keener

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
ive Coal							
sburg Coal	<u>break</u>						
le Dunkard	<u>410</u>	<u>460</u>					
	<u>470</u>	<u>525</u>					
Sand	<u>600</u>	<u>675</u>		<u>330</u>			
Salt	<u>690</u>	<u>780</u>					
nd Salt	<u>800</u>	<u>865</u>					
on	<u>1297</u>	<u>1300</u>					<u>1308 Sand 910</u>
e Line	<u>1328</u>	<u>1343</u>					<u>1308</u>
il Cave	<u>1343</u>	<u>1365</u>					
Line	<u>1365</u>	<u>1425</u>					
njun	<u>1425</u>	<u>1515</u>					
w	<u>1528</u>	<u>1540</u>					<u>1444 to 1453</u>
	<u>700</u>						
	<u>1800</u>	<u>1815</u>					
Foot	<u>1955</u>	<u>2035</u>					
y Foot	<u>2050</u>	<u>2075</u>					
on Stray	<u>2161</u>	<u>2172</u>					
on	<u>2195</u>	<u>2215</u>					
th	<u>2225</u>	<u>2265</u>					
rd	<u>2384</u>	<u>2389</u>					<u>2386, 4/10 water</u>
Depth	<u>Dest Line</u>	<u>2567 1/2</u>					<u>81 met.</u>

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
4" Cag													
6" "	<u>173</u>	<u>4</u>	<u>130</u>	<u>2</u>			<u>130</u>	<u>2</u>	<u>111</u>		<u>42</u>	<u>3</u>	
8" "	<u>1093</u>	<u>8</u>	<u>1030</u>		<u>1030</u>						<u>1093</u>	<u>8</u>	
10" "	<u>1548</u>	<u>9</u>	<u>1422</u>				<u>1422</u>		<u>70</u>		<u>106</u>	<u>9</u>	
12" "	<u>2396</u>	<u>8</u>	<u>2167</u>				<u>2167</u>				<u>229</u>	<u>8</u>	
Tbg													

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
	<u>6 7/8 steel shoe on bottom of 6 7/8 Casing</u>			
	<u>1-5 3/16 Anc.</u>	<u>2 ft.</u>	<u>2165</u>	<u>1-5 3/16 steel shoe on bottom.</u>

DATE	Gauge	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
<u>6-11</u>	<u>15</u>	<u>2384</u>	<u>2389</u>	<u>4 1/4</u>	<u>5th</u>	<u>7/10</u>	<u>W</u>	<u>2</u>	<u>7/10</u>	<u>W</u>	<u>2</u>	<u>74</u>	<u>M J Co</u>

CEMENTING RECORD

Top Cemented.....Not Cemented.....Size Holy Cemented.....Not Cemented.....Size Casing Cemented.....Not Cemented.....
 Bottom Pittsburg Coal.....Not Cemented.....Top Cementing.....Not Cemented.....Amount Cement Used.....Not Cemented.....
 Bottom Pittsburg Coal.....Not Cemented.....Bottom Cementing.....Not Cemented.....Amount Sand Used.....Not Cemented.....
 of.....Not Cemented.....Coal Company on ground when coal was cemented.....
 Well Book GEO. A. KINLEY.....Signature of persons who cemented well.....
 Tests Book.....Not Cemented.....
 Well Map JUL 19 1916 A.J.D.
 Line Map.....
 Sheets JUL 11 1916 H.H.S.

Approved by... H. V. White Foreman

033-1402