

LATITUDE 39° 10' 00"

80° 54' 08"

LONGITUDE



7.5 OGIS topo location

7.5' loc 2.035
1.29W

15' loc 2.035
(calc.) 1.29W

Company _____

Farm _____

Elev. 940' - 75' topo - k/a 3/5/93
Holbrook EC

Quad OXFORD 7 1/2'

County DOORIDGE

District COVE

WELL LOCATION MAP

File No. 017-1966

NATURAL GAS COMPANY

Well No. 529

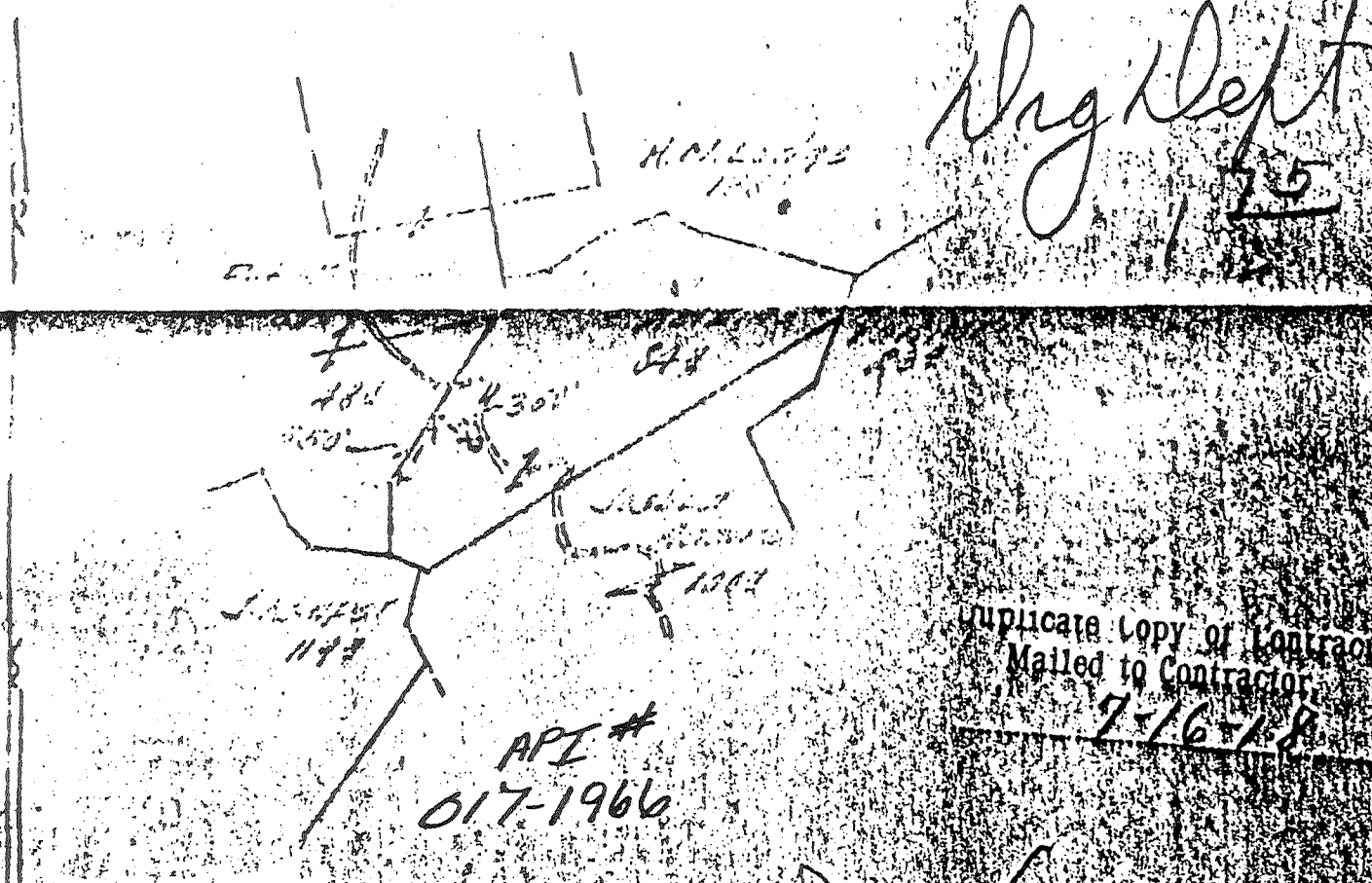
DISTRICT

District

County, West Virginia

85 N. S. 31 E. W. 10

Location made in Pittsburgh ... Sent to Clarkburg ... Location to be 350 feet ...



Duplicate Copy of Contract Mailed to Contractor

7-16-18

Duplicate Copy of Contract Mailed to Contractor

6-7-5-18

TITLE RESERVE *...*

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE *September 1, 1918*

Same Lease on which Located Well No. ...

As per plat, except as noted. On field map ...

Date Signed

NEW WELL _____
 D. O. _____
 OLD WELL A

REPORT ON HYDRAULIC FRACTURING

WELL NO. 5295
 MAP _____
 SQUARES N E S 21, 10

FARM NAME Joshua Adams DISTRICT Cove COUNTY Doddridge STATE W. Va.

OPERATOR Hope Natural Gas SERVICE COMPANY Dowell DATE May 20, 1957

FORMATION 30 Foot TOP 2480 BOTTOM 2490

PAY ZONE: TOP 2480 BOTTOM 2490 HAS FORMATION SHOT? Yes

SURVEYS: CALIPER Yes TEMPERATURE Yes GAMMA RAY Yes OTHER _____

O. F. ORIGINAL 179 MCF, R. P. 920 # IN ? HOURS

O. F. BEFORE FRAC. 12 MCF, R. P. 350 # IN 12 days HOURS

PRODUCTION STRING: SIZE 5-1/2" LENGTH 2450 CEMENTED WITH 165 BAGS OF Portland CEMENT

WAS LINER SET? No SIZE _____ TOP _____ BOTTOM _____

INJECTION STRING: SIZE 5-1/2" LENGTH _____ PACKER SET @ _____ SIZE _____

PACKER (CONTD): TYPE _____ MAKE _____ CEMENTED WITH _____ BAGS OF _____ CEMENT

(TO BE FILLED IN BY SERVICE ENGINEER)

TREATMENT - BREAKDOWN

FLUID: KEROSENE 3696 GALS
 CRUDE OIL _____ GALS
 M. H. MCF, O.P.S. 200 GALS
 OTHER _____ GALS
 TOTAL 3896 GALS
 VISCOSITY 33 ± (SSU)

BREAKDOWN PRESSURE: MAXIMUM 1800 #
 FINAL 1800 #
 TIME 2 MINUTES
 INJECTION RATE: 273 GALS PER MINUTE
 SP. GR. .8021

TREATMENT - FRACTURE

FLUID: KEROSENE _____ GALS
 CRUDE OIL _____ GALS
 GEL AGENT _____ GALS
 Sand Frac Oil OTHER 4000 GALS
 TOTAL 4000 GALS
 VISCOSITY 85 ± (SSU)
 FLUID LOSS _____

SAND: AMOUNT 6000 POUNDS
 SIZE 20 - 40
 PRESSURE: MAXIMUM 1800 #
 FINAL 1775 #
 TIME 5 MINUTES
 INJECTION RATE: START OF GEL 840 GALS PER MINUTE
 AVERAGE 800 GALS PER MINUTE

TREATMENT - SP. GR. FLUSH

FLUID: KEROSENE 2940 GALS
 CRUDE OIL _____ GALS
 OTHER _____ GALS
 TOTAL 2940 GALS
 VISCOSITY 33 ± (SSU)
 TOTAL FLUID USED 10536 GALS

PRESSURE: MAXIMUM 1900 #
 FINAL 1900 #
 TIME 5 MINUTES
 INJECTION RATE: 630 GALS PER MINUTE
 SP. GR. .8021

COMPLETION

PRESSURE 10 MINUTES AFTER PUMPS SHUT DOWN: 1200 #
 PRESSURE AT END OF SHUT IN PERIOD: _____ #
 FLUID RECOVERED: 75 BBLS IN 24 HOURS, 99 IN 48 HOURS, 124 BBLS. IN 72 HOURS
 FLUID REMAINING IN FORMATION: 5723 GALS (FOLLOWING LAST REPORTED ABOVE)
 VOLUME OF SAND RECOVERED: _____

O. F. AFTER FRAC. 25 MCF, R. P. _____ # IN 7 days HOURS

REMARKS: Still recovering fluid

(CONTINUE ON BACK)

COPY TO: A. R. MCCANEY ✓
 R. E. BAYLES ✓
 J. W. HENDRICKSON
 DIVISION SUPERINTENDENT
 DISTRICT SUPERINTENDENT

REPORTED BY: Geo. R. McCallough
 DATE: May 29, 1957
 WORKING DISTRICT: Gilmer District

District Gilmer Commenced August 18, 1924
 N S 21 E W 10 **REPAIRS** Completed December 2, 1924

CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
6 1/2"	1835'4"	None	None	1835'4"	
8"	2541'	2541'	2445'11"	2445'11"	
2" Perf.	21'	21'	21'	21'	
3" Tbg	43'1"	43'1"	43'1"	43'1"	

SHOOTING RECORD

Date	Quarts	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		
5-30-24	30	2427	2425	5"	Gordon	10/10	W	2	60/10	W	1"	60	Marietta Torpedo Company
								150	720			92/60	

RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Names of Drillers	Time (Days)
			William B. Alfred	80
Commenced drilling at depth of Did not drill any deeper.			Names of Tool Dressers	Time (Days)
			James G. Dennison	80

PACKER RECORD (ALSO NOTE BELOW IF ANY PACKERS ARE PULLED)

Size	Kind	Anchor	Amount Above Anchor
6 1/2" X 2"	H.W. Anchor	560'10"	1949'8"

OIL AND GAS DISCOVERIES IN DEEPER DRILLING

Oil at	Not drilled any in deeper.		Sand
Gas at		Ft. in	Sand

VOLUME AND PRESSURE REPORT

BEFORE REPAIRS

Reading	Liquid	Opening	Rock or Minute Pressure	Sand Gas From
6/10	Water	2"	Not taken	Gordon
		115.968		

AFTER REPAIRS

VOLUME TEST

Date of Test	Opening	PITOT TUBE		OPEN FLOW	Sand Gas From
		Reading	Liquid Used	Lbs.	
12/2/24	" Casing				Gordon
Time Blown 2 HOURS	2" Tubing	6/10	Water	115.968	

PRESSURE TEST

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.	Hr.	Pr.
12/2/24	" Casing														
Time Blown 2 HRS	2" Tubing	0	0	0	0	0	20	25	30	35	40	65	105	24	

OIL: From _____ Sand _____
 Estimated Production _____ Bbl. per Day
 Remarks: Completed & shut in.

J.A. Shaughnessy
 Foreman

REMARKS

Moved in 28-L Bucyrus-Erie Machine to clean out.

Pulled and fished 2-3/8" tubing and 43 ft. of 3-1/2" tubing. Bailed off oil and gas. Gas test 12/10 W 1/2" FM (6.5 M). Fished old 2" sinkers and swab that had been lost in hole. Cleaned out on bottom.

Conducted Gamma Ray Survey. Ran 2449' SL 5-1/2" OD 17# casing on steel shoe and cemented approximately 500 ft. behind casing using 140 bags cement. Aquagelled to surface using 6 bags aquagel.

Shot well with 10 qts. open from 2484 to 2494. Gas test before shot 16/10 W 1/2" FM (7.5 M). Test 16 hrs. after shot 20/10 W 1/2" FM (8.4 M). 16 hr. RP 145#

Fractured 30 Foot sand from 2480-2490. Used 10836 gals. oil and 6000# sand. Fracture. Maximum pressure 1900#. Recovered 6519 gals. oil. Test before fracture 44/10 W 1/2" FM (13.8 M). Test 10 days after fracture 73/10 W 3/4" FM (36.2 M).

Final gas test 50/10 W. 1" FM (53.2 M).
Shut well in on 5-1/2" casing.

Jesse J. Gum
Darrell O. Bush

C. O. Driller
C. O. Helper

THIS RECORD IS TAKEN FROM A GAMMA RAY LOG
#5295

Big Dunkard	945	1008
Gas Sand	1118	1290 bk. 1185-1250
1st Salt	1412	1511
3rd Salt	1605	1660
Little Lime	1754	1785
Big Lime	1790	1850
Big Injun	1850	1939
Berea	2260	2265
50'	2390	2410
30'	2481	2512
Total Depth		2520

ON OTHER SIDE OF THIS FORM, MAKE DETAILED REPORT OF WORK DONE TOGETHER WITH NAMES OF DRILLERS, TOOL DRESSERS & O.G.W. ETC.

DISTRICT SUPERINTENDENT

W. R. ...

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	11	12	13	14	15
June 5, 1957	5-1/2															

PRESSURE TEST

Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From
			None			

AFTER DRILLING DEEPER

Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From
June 5, 1957	PM	50/10	Water	11	53,251	30.00

AFTER CLEANING OUT

Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From
			Gas down out			

BEFORE CLEANING OUT (Take Test When Ready to Clean Out)

VOLUME AND PRESSURE REPORT

Top	Bottom	Oil	Gas	Water	Other	Remarks
						2520

Map Sheets
Well Map
Memo Book
Well Card
Report Cards
CLARKSBURG OFFICE ENTRANCE
Checked None
OIL PRODUCTIONS
6-5/8 x 2 1/2
KINDLE HOOK WEL
PACKING PLUGS
5/8" casing ran on steel shoe
PACKING RECORD

017-1966

RECORD OR ANY DEPTH DRILLING

(Notes) See other side for summary table

Not deeper drilling

Commenced drilling at depth of