

LATITUDE 39° 17' 30"



LONGITUDE 80° 42' 30"

7.5 OGIS topo location

7.5' loc	<u>0.87 S</u>	15' loc	<u>3.75 S</u>
	<u>1.44 W</u>	(calc.)	<u>3.67 W</u>

Company _____

Farm _____

(Elev. 840) 7.5' topo k/a 2/5 h3
centerpoint sw

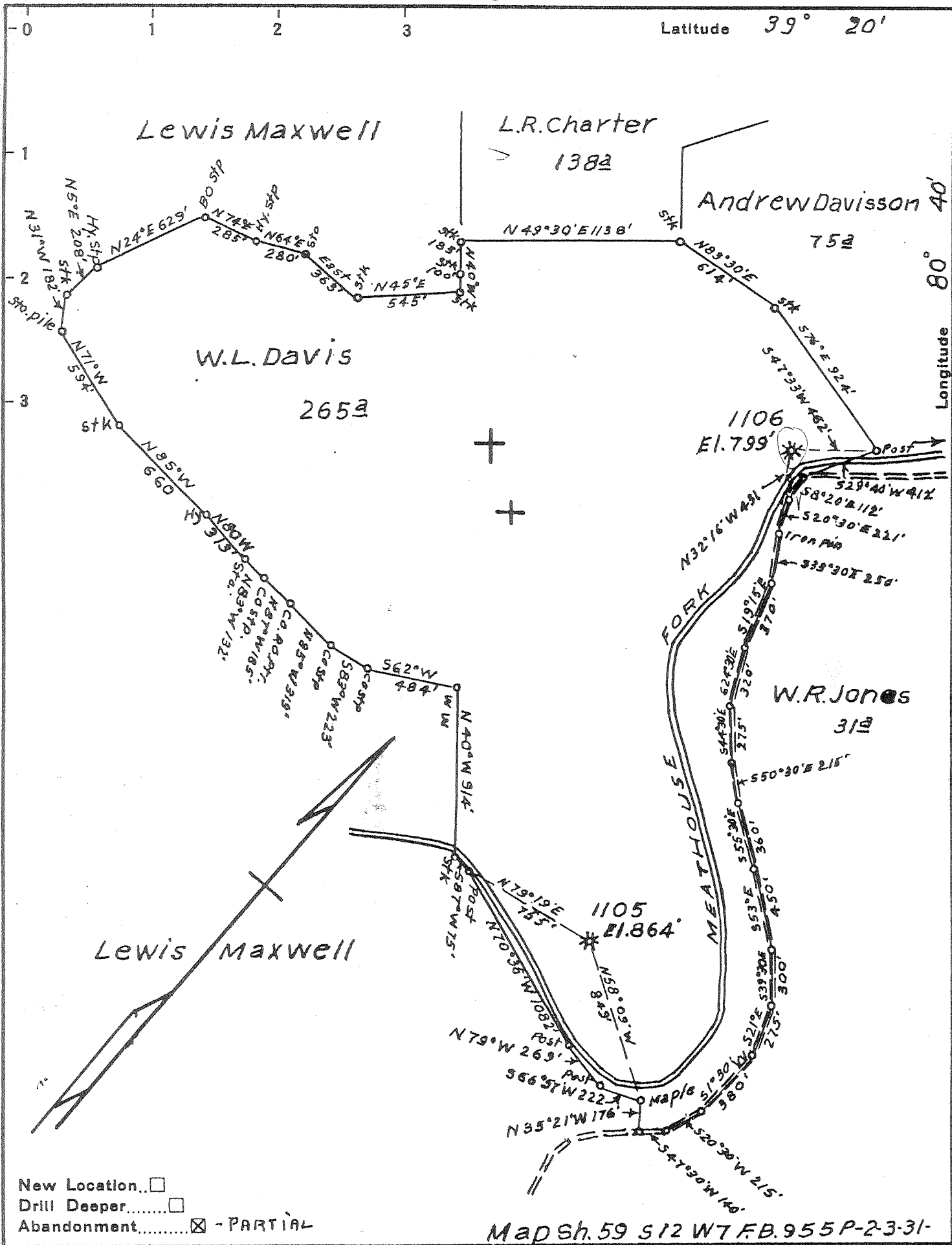
Quad SMITHBURG 7 1/2'

County DOODRIDGE

District WEST UNION

WELL LOCATION MAP

File No. 017-1916



New Location...
 Drill Deeper.....
 Abandonment..... - PARTIAL

Map Sh. 59 S12 W7 F.B. 955 P-23-31-

Company	Hope Natural Gas Co.
Address	Clarksburg, W.Va.
Farm	W.L. Davis
Tract	Acres 265 Lease No. 13253
Well (Farm) No.	Serial No. As Shown
Elevation (Spirit Level)	As Shown
Quadrangle	Centerpoint
County	Doddridge District West Union
Engineer	W.M. Bowers
Engineer's Registration No.	900
File No.	Drawing No.
Date	3-15-56 Scale 1" = 40 P

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

WELL LOCATION MAP

FILE NO. ~~DOD 1057A~~ #1106

REISSUED AS: DOD-1916
 + 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.

Farm Name W. L. Davis
 Repairs Commenced March 31, 1942

N 12 E 7 W
 Repairs Completed June 24, 1942

CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
6 1/2"	1492			1492	
5 3/16"			1519	1519	S.L. 1518
4 1/2" Liner			265	265	(Including 43' Perf.)

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		
5/18/42	40	1570	1579	5"	Inj	19/10	W	1/2"	44/10	W	1"	FM 30	days Mar. Torp O
5/17/42	40	2232	2243	5"	Gord.				49,951	ou. ft			

RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Names of Drillers		Time (Days)
			8 Hr.	16 Hr.	
Commenced drilling at depth of	2457		P. S. Williams	43	9
			J. S. Fluharty	5	3
Slate & shells	2457	2601	E. G. Gain		2
			D. O. Reed		2
No Bayard Sand found			Names of Tool Dressers		
			S. J. Hopkins	43	9
			Albert Gatrell	5	3
			F. E. Duckworth		6
			H. B. Underwood		2

PACKER RECORD (ALSO NOTE BELOW IF ANY PACKERS ARE PULLED)			
Size	Kind	Anchor	Amount Above Anchor
No packer run. 5 3/16" Casing set in 50 feet of cement.			

OIL AND GAS DISCOVERIES IN DEEPER DRILLING			
Oil at	None	Ft. in	San
Gas at	None	Ft. in	San

VOLUME AND PRESSURE REPORT

BEFORE REPAIRS

Reading	Liquid	Opening	Rock or Minute Pressure	Sands Gas From
19/10	Water	1/2" F.M.	8,206 cu. ft.	Big Injun & Gordon

AFTER REPAIRS

VOLUME TEST

Date of Test	Flow Meter or Open Flow	Size of Opening	PITOT TUBE		OPEN FLOW	Sands Gas From
			Reading	Liquid Used		
6/18/42	FM	1"	44/10	Water	49,951	ou. ft. Injun & Gordon
Time Blown						

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.	Hrs.
6/18/42	5 3/16"	1	2	3	4	5	6	7	8	9	10	23	40	24
" Tubing														

OIL: From None Sand
 Estimated Production Bbl. per Day
 Remarks: Drilled deeper. No sands found. Cemented 50' in Big Lime between 6 1/2" & 5 3/16" Casing.

Frank Mornie
 District Superintendent

017-1916

HOPE NATURAL GAS COMPANY

REPORT ON HYDRAULIC FRACTURING

NEW WELL _____
D. D. _____
OLD WELL _____

WELL NO. 1106
MAP 60
SQUARES N E 32 W 7

FARM NAME H. I. Davis DISTRICT West Union COUNTY Doddridge STATE W. Va.

OPERATOR HBE Co. SERVICE COMPANY Halliburton DATE 2-6-56

FORMATION Intal TOP 1570 BOTTOM 1655

PAY ZONE: TOP 1570 BOTTOM 1575 HAS FORMATION SHOT? Yes

SURVEYS: CALIPER Yes TEMPERATURE Yes GAMMA RAY Yes OTHER _____

O. F. ORIGINAL No record MCF, R. P. _____ # IN _____ HOURS

O. F. BEFORE FRAC. 26.0 MCF, R. P. 46 # IN 72 HOURS

PRODUCTION STRING: SIZE 5 1/2 LENGTH 1518 CEMENTED WITH 10 BAGS OF X CEMENT

HAS LINER SET? No SIZE _____ TOP _____ BOTTOM _____

INJECTION STRING: SIZE 2 3/8 LENGTH 1543 PACKER: SET @ 1503 SIZE 2 x 5 1/2

PACKER (CONTD): TYPE Upside Down MAKE Baker CEMENTED WITH Not cemented OF _____ CEMENT

(TO BE FILLED IN BY SERVICE ENGINEER)

TREATMENT - BREAKDOWN

FLUID: KEROSENE 35 XXX BBL
CRUDE OIL _____ GALS
M. C. A. _____ GALS
OTHER _____ GALS
TOTAL _____ GALS

BREAKDOWN PRESSURE: MAXIMUM 750 #
FINAL 450 #
TIME 5 MINUTES
INJECTION RATE: 192 GALS PER MINUTE

TREATMENT - FRACTURE

FLUID: KEROSENE 35 XXX BBL
CRUDE OIL _____ GALS
GEL AGENT 300 # XXX
OTHER 5 GALS Gel. Breaker
TOTAL _____ GALS
VISCOSITY _____
FLUID LOSS _____

SAND: AMOUNT 3200 #
SIZE _____
PRESSURE: MAXIMUM 2350 #
FINAL 1900 #
TIME 18 MINUTES
INJECTION RATE: START OF GEL 192 GALS PER MINUTE
AVERAGE 192 GALS PER MINUTE

TREATMENT - FLUSH

FLUID: KEROSENE 40 XXX BBL
CRUDE OIL _____ GALS
OTHER _____ GALS
TOTAL _____ GALS

PRESSURE: MAXIMUM 1500 #
FINAL 700 #
TIME 5 MINUTES
INJECTION RATE: 192 GALS PER MINUTE

TOTAL FLUID USED 110 XXX BBL

COMPLETION

PRESSURE 10 MINUTES AFTER PUMPS SHUT DOWN: 700
PRESSURE AT END OF SHUT IN PERIOD: 450 HOURS
FLUID RECOVERED: 12 BBL IN 24 HOURS, 22 IN 48 HOURS, 50 IN 312 HOURS
FLUID REMAINING IN FORTALION: 60 BBL XXX (FOLLOWING LAST REPORTED ABOVE)
VOLUME OF SAND RECOVERED: a little sand recovered

O. F. AFTER FRAC. 384.0 MCF, R. P. 150 # IN 16 HOURS

MARKS: _____

(CONTINUE ON BACK)

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

REPORTED BY: Warren R. Mason
DATE: 2-24-56
WORKING DISTRICT: Sales

017-1916



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

1000

Quadrangle _____
Permit No. 100-1057-A → now Dodd 1916 **WELL RECORD**
Oil or Gas Well Gas (KIND)

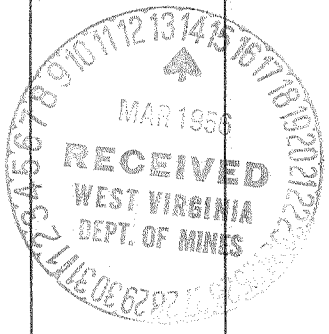
Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm W. L. Davis Acres _____
Location (waters) _____
Well No. 1106 Elev. _____
District West Union County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 9-30-04
Drilling completed 11-26-04
Date Shot 12-7-14 From Gordon ~~xxx~~ and Injun
With 42 Qts
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 3/4	1492	1492	Depth set
5 3/16	1519	1519	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
No Cementing _____

COAL WAS ENCOUNTERED AT 138' FEET 24 INCHES
____ FEET _____ INCHES FEET _____ INCHES
____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal			138	140			
Gas Sand			740	880			
First Salt			895	1095			
Second Salt			1120	1160			
Maxon			1396	1416			
Lime			1480	1570			
Big Injun			1570	1655	Gas	1570	
Squaw			1665	1670			
BEREA			1810	1865			
Gordon Stray			2224	2227			
GORDON			2232	2239	Gas	2237	
Slate & Shells			2457	2601			
Total Depth				2601			



B. R. NUZUM
General Superintendent
March 12, 1956 By Parley
Hope Natural Gas Company

JUNE 21 1956
(Over)

By

APPROVED

Date

19

Remarks	Depth Found	Oil, Gas or Water	Bottom	Top	Hard or Soft	Color	Formation



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle Centerpoint

Permit No. DOD-1916

Oil or Gas Well Gas
(KIND)

Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm W. L. Davis Acres _____
Location (waters) _____
Well No. 1106 Elev. _____
District West Union County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
18			
10			Size of _____
8 1/2			
6	1492	1492	Depth set _____
5 3/16	1519	1519	
8			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

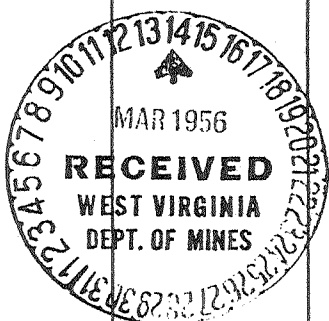
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Date Shot 12-7-14 From Gordon and Injun
With 42 Qts
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
No Cementing

COAL WAS ENCOUNTERED AT 128' FEET 24 INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal			138	140			
Gas Sand			740	880			
First Salt			895	1095			
Second Salt			1120	1160			
Maxon			1396	1416			
Lime			1480	1570			
Big Injun			1570	1655	Gas	1570	
Squaw			1665	1670			
BEREA			1810	1865			
Gord on Stray			2224	2227			
GORDON			2232	2239	Gas	2237	
Slate & Shells			2457	2601			
Total Depth				2601			

*1976 Prod.
7,912,000*



B. R. NUZUM
General Superintendent
March 12, 1956 By *[Signature]*
Hope Natural Gas Company