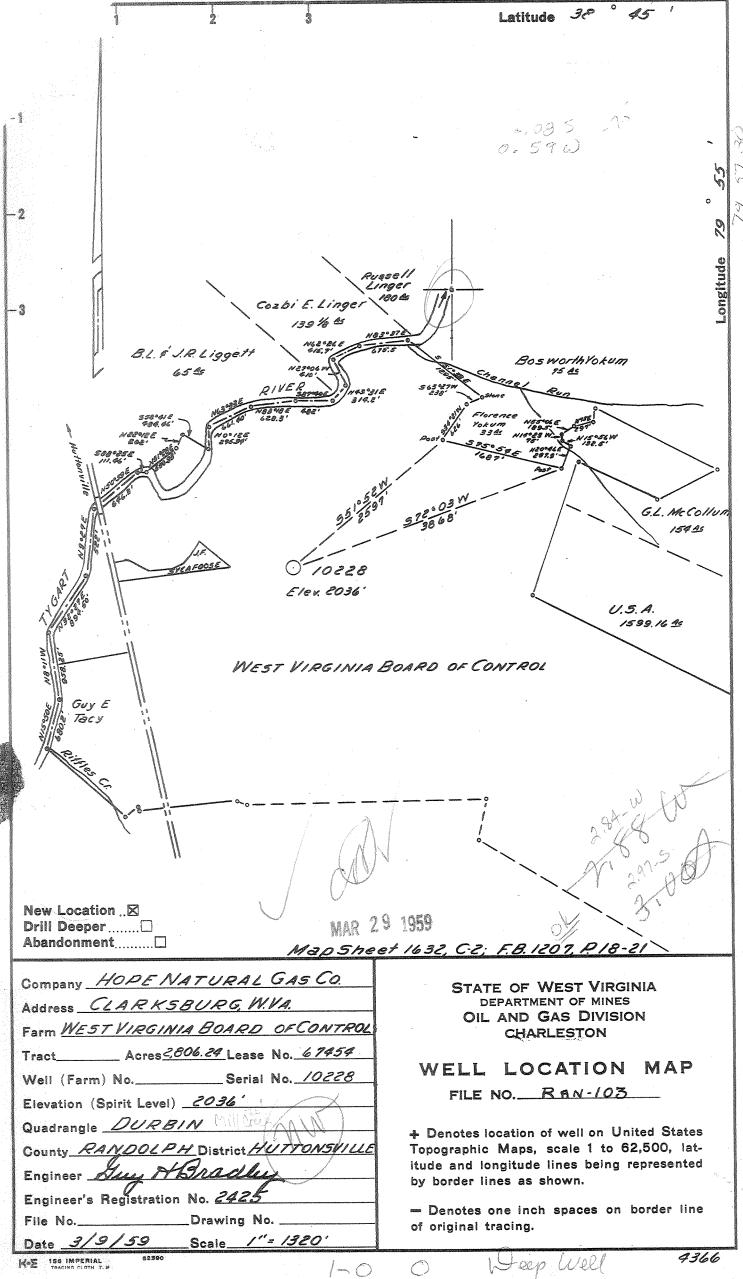
7.5 100 Wa7/2311999 0.085 0.596 Longitude Topo Location 7.5' Loc. _____ 15' Loc. 2.965 (calc.) 2.84 w Company __ WELL LOCATION PLAT 15' Quad Durbin nw (sec.) County 083 Permit 103 7.5' Quad Mill Cresc District _____ DEEP WELL

Latitude



WIVA, BOAF OF CONTROL NO. 10,728 - HUPE N. G. Co, -

RAN-103



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 14

Quadrangle	DURBIN

Permit No. RAN-103

WELL RECORD

Oil or Gas Well Gas (dry)

Address Cl:	arksburg.	W. Va.	Acres 2866	Casing and Tubing	Used in Drilling	Left in Well	Packers
,			, ,	Size			
Location (waters) Well No. 10228 Elev. 2036			size ⊋⊊x 20″	76	76		
District Huttonsville County Randolph						9	Kind of Packer
		•		13	3015	3015	
					30.65	ريار	Size of
					6291	2874	
Mineral rights are owned byAddress				0293	2014	Depth set	
Drilling commen	~ ^				30 650	79851	
Drilling complete	2.0	-61		٠ ش	10,659	1302.	Perf. top
			0				Perf. bottom
			0				Perf. top
			Inch				Perf. bottom
~			Inch	drawater and the same and the s			
			nen	CASING CEMI			_No. FtDate
	•		Ou. Ft.	us" comenc	ed with 130) bags	
Oil None			nrs. bbls., 1st 24 hrs.		d with 200 NCOUNTERED	bags unii	flo feetinches
		(es					FEET INCHES
WELL ACIDIZE	للكلاقة اللكالية						
****** * **** * OFF**	und William	ASTRIBATORISTAN Y	ecocicectostates	FEET			FEETINCHES
		no result:					
		and the state of t	•	rks on back)			
RESULT AFTE							
Fresh Water No.	K. Kotary	Feet		Salt Water	in the second	Fe	et
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Devonian Tully Lim Marcellus Tioga-Met Onondaga Huntersvi Oriskany Helderber Silurian Rose Hill Tuscarora Juanita F Shale - Me	stone Shale abentonite Limestone lle Chert g Limeston Shale Sandstone ormation	21,80 2510 -657 2695 2830 31,60 4906	2280 2310 2475 2480 2510 2695 2830 3460 5703 5917 7310 10118	5740 sh gas 7188, 7240-1 8244, 8555 10210, 1024 10490 3,00 11443, 1145	hh sh gas - sh gas - M 6, 10298, 1 0-M est. 1,	Juniata artingsbu 0314, 103	1
Total Dep	th		13,121				71, 34¢
			and the same of th				
			T649	12-636 1	2-5-3-6		
			And the constitution of the constitution of	gante Marken estan e	A I A B B	15001000	
•					11100 K	¥`	
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		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
			, N	מסא ((r 1981	13.50	La company and the second second
(Description of the control of the c	January Commission	And the second s				不過過少數	
				2 /			

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NTROL NO, 1028 - / FOFE NGLO-

PAN-103

Formation	Color	Hard or Soft	Top 14	Bottom	Oil, Gas or Water	Depth Found	Remarks
REMARK	S:	The state of the s	THE PROPERTY OF THE PROPERTY O	Contraction of the section of the se			
	The well	was drilled	to 11,765.	The drill p	ipe twisted	off at 10,25	7:. Set
casing	on a 4-1/	E" float sho	Perforat	ed 4-1/2" ca	sing 10.472-	LO4921. Tes	ck at 10,081! of 4-1/2" t after Treat
<pre>perfor well or</pre>	ations <u>310</u> ff. Gas t	Mcf. Shut est <u>202 M</u> cf.	in for rock Attempt to	pressure tes acidize fai	t, 23 hour t led due to G	est was 3220 el-Flake plu	ging per-
l Mcf chlori	to 3 Mcf. c acid. F	Bailed flui Luid level a	dgas test t 2377° 12 h	133 Mcf. Acours after t	idized with reatment. 1	2,000 gallon 7 hours afte	Gas increased s 15% hydro- r treatment
follow	time with ed with 6,	gas test was 7,000 gallo 000 gallons Mcf in seven	ns of 15% hy fresh water.	drochloric a	cid, 14,000	gallons 5% a	Acidized cid and 00 Mcf which
Gas te	Ran 4-1/2	" Baker plug	at 10,4561,	perforated	4-1/2" casin	g at <u>10,378-</u>	10,400°. Tras Gas test 180
Mcf wh Later	ich blew d was 3 Mcf.	lown to 4 Mcf Found rota	in 2-1/2 ho	purs. Frac r	otched at 10	3431. Test	3 hours
15% hj	drochloric	acid and 6, well for ro	000 gallons	fresh water.	Gas test a	fter treatme	,000 gallons nt was
test v	7as 4,966 M	cf, blowing	to 192 Mcf i	h 28 hours.		ė.	TO CONTRACT OF THE CONTRACT OF
top.	0 , 1960. $^{\circ}$ Cut and $^{\circ}$	ulled 7985° o	Mcf. Ran 4- f 4-1/2" cas	1/2" Baker plants. Set 7"	lug at 10,01	0! with 3 ba	gs cement on
5724° at 287	with 20' o	sing 5805-58 f cement on cement on	top. Cut an top. Perfor	d pulled 287 ated 9-5/8"	'li' of 7" cas casing 2815-	ing. Set 9- 2819 and 28	5/8" plug 04-2811:
gau الر	lons salt le and aba	water per ho	ur was produ	ded thru per	foration. W	ell complete	d as a
							mar in the s
				5.30			
$\frac{ \gamma_{i} ^{2}}{ \gamma_{i} ^{2}} \frac{ \gamma_{i} ^{2}}{ \gamma_{i} ^{2}} \frac{ \gamma_{i} ^{2}}{ \gamma_{i} ^{2}} \sqrt{ \gamma_{i} ^{2}}$			Section 1				
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		· 多 (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			A Maria		
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			A STATE OF THE STA	A TRIBUS TO MARKET			

	Date_	March	21,	1961	· · · · · · · · · · · · · · · · · · ·	19
APPROVED	Hope	Natural	Gas	Company		, Owner
Rv.	Qu	ck l	3a	Cen	. (*	
	7-		('	Title)		

Entropsylle District, Mardolla County, J. Va. 37 Hose Hasurs : was Co., Clarksours, b. Va. equiled order joy is ken-100; Larota wait. on 2000 sorss. Mievation. Subof L. Drissing epasseess w-f-or; compless S-9-5%. Well may succ. Volume, - show only. hoon pressure - ? Well fractured - no results.

The well was drilled to 11,765 feet. Ten drillpipe twisted off at du, 2577. Set beger gang at 10, 2557 and placed 2007 of cement on top of gaug. Set whipstock at 10,001 feet and original to 10,181 - total degra. Plugged becare 10,00% feet. Ran 10,00% of 4% casing on a 4g" float shoe. Feri. 4g" 10,472-10,492". Pest after peri. 510 Mcf. Saut in for rock pressure test, 25 nours, test was 3220 lb. blew well off. Was test 202 mof. Attempt to acidize failed due to Wel-Flake plugging perforations. bailed fluid- gas test 1 mef. Frac notened 10,490-10,4741. Gas inc. l mer to 5 mef. pailed fludk - gas test 103 mef. -cidized with 2,000 gals. 15% hydrochloric acid. Fluid level at 2377° 12 mrs. after treatment. 17 hrs. eiter treatment, well flowed and gas test was 1,641 Rcf. blowing down to 152 Mcr in 95 nours, acidized second time with 7,000 gels. of low hydroculoric acid, 14,000 gais. of 5% acid and followed with 6,000 gals fresh water. Vas test 5 days, after treatment - 400Mcf which blew down to 72 gof in seven days.

Man 45" Baker plug at 10,456, perforered 45" casing at 10,578-10,400". Cas test 192 Mcf, 20 min. after perf. Perf. 10,358-10,350 Gas test 180 Mcf which blew down to 4 Mcf in 25 hrs. Frac notched at 10,343 . Test 3 hrs. iater was 5 Wef Found rotary drilling mud-st 9500 in hold. Harleddrining mud. Was test - 130 Mcf. After blowing 2 days, gas test was 62 mcf. Acidized with 4,000 gal. 15% hydrocaloric acid and 6,000 gals. fresh wever. Gas vest after freatment was 33 Mcf. Shut in well for rock prassure test. 4150 lo. desd weight test in 10% days. Was test was 4,906 mcf., blowing to 192 hef in 20 mrs.

Drove plug set at 10,45% down to 10,555%. Gas test - 272 Mcf. Well bailed dry tot. 3/00. Was vest - 55 fef. Han 4g Baker plug at 10,010 with 5 bags cement on top. Out and pulled 7980 of 48 casing. Set 7° plug av 6150' and cemented to 5911'. Perf. with 20' of cement on top. Out and pulled 2374" of 7" casing. Get 9-5/6" plug at 2374" with 31" cement on top. Ferf. 9-0/6" casing 2010-2019 and 2004-2011. 30 gais. said water per ar. was produced thru perf. Well completed as a dry note and enendoned.

Hater 78'; water 5847%; 4667%; 5740'; shale gas 5740'; shale gas 7106%; 7240-441; 82441; 85551; 102.01; 102461; 102961; 103141; 103221; 103641; 10537; 104981; 3,000 m est 1,400 ... conel gas 144431; 144531. Record to Dept. or wines 5-21-th. Mecord from sollen 4-0-01.

Top. Morroll. Devomian snale 0 - 2200 Tully limestone 2250 - 2510 2510 - 2475 Marcellus shale bioga-wevapemonite 2475 - 2460 Omondage Linestone 2400 - 2510

Humersville Chert 2510 - 2095

2005 - 2050 Orisksay. Helderberg-limestone 2850 - 5460

Depuleel

5460

Rose Alla shale
Tuscerora baldstone
Juniate Formetion
Chale
Trento limestone

10p. Bottom:
4900, - 0403
0700 - 5917
5917 - 7310
7310 - 10118

Total degra

13,121

Huttonsville District Randotph County, J. Ve. By Hope Nature: Gas do. Clarksburg, W. Va. Prilled under per it Ran-103; Duroin quad. On 2800 acres. Blevetion, 2035; L. Brilling commenced 3-9-59; completed 5-9-61. Well not shot. Volume, - show only. Rock pressure - ? Well fractured - no results.

The well was drilled to 11,705 feet. Ten drillpipe twisted off at 10,257. Set baker plug at 10,255 and placed 200 of cement on top of plug. Set whipstock at 10,001 feet and drilled to 10,121 - total depth. Plugged back to 10,009 feet. Ran 10,059 of 4g casing on a 4g float snoe. Perf. 4g 10,472-10,492. Test after perf. 310 Mcf. Shut in for rock pressure test, 25 nours, test was 3220 lb. blew well off. Gas test 202 Mcf. Attempt to acidize failed due to bel-flake plugging perforations. Dailed fluid- gas test 1 Mcf. Frac notined 10,490-10,474. Gas Inc. 1 Mcf to 3 Mcf. Bailed fluid- gas test 153 Mcf. Acidized with 2,000 gals. 15% hydrochloric acid. Fluid level at 2377 12 hrs. after treatment. 17 hrs. after treatment, well flowed and gas test was 1,641 Mcf, blowing down to 152 Mcf in 90 hours. Acidized second time with 7,000 gals. of 15% hydrochloric acid, 14,000 gals. of 5% acid and followed with 0,000 gals fresh water. Gas test 5 days, after treatment - 400Mcf which blew down to 72 Mcf in seven days.

Ran 4g" Baker plug at 10,456', perforated 4g" casing at 10,378-10,400'. Gas test 192 mcf, 20 min. after perf. Perf. 10,338-10,350'. Gas test 100 mcf which blew down to 4 mcf in 2g hrs. Frac noticed at 10,343'. Test 3 hrs. later was 5 mcf Found rotary drilling mud at 9500' in nold. Baileddrilling mud. Gas test - 130 mcf. After blowing 2 days, gas test was 62 mcf. Acidized with 4,000 gal. 15% hydrochloric acid and 6,000 gals. fresh water. Gas test after freatment was 33 mcf. Shut in well for rock pressure test.

4180 lb. dead weight test in 103 days. Gas test was 4,900 mcf., blowing to 192 mcf in 20 mrs.

Drove plug set at 10,45% down to 10,533. Gas test - 2% Mcf. Well bailed dry Oct. 3/60. Gas test - 56 Mcf. Ran 4g Baker plug at 10,010 with 5 bags cement on top. Gut and pulled %965 of 4g casing. Set 7" plug at 6150 and cemented to 5911. Perf. with 20 of cement on top. Gut and pulled 2874 of 7" casing. Set 9-5/6" plug at 2874 with 31 cement on top. Ferf. 9-5/6" casing 2015-2019 and 2804-2811. 30 gals. sait water per nr. was produced thru perf. Well completed as a dry note and abandoned.

Water 78'; water 5347g', 4087', 5740'; shale gas 5740'; shale gas 7188'; 7240-44'; 8244'; 8555'; 102.0!; 10246'; 10298'; 10514'; 10522'; 10534';

10337; 10490; 3,000 M est 1,400 ... schel gas 14443; 14453. Record to Dept. of mines 3-21-ol. Record from Allen 4-5-ol.

	Top. Botton	iÌ
Devonian snale	0 - 2280	
Tully limestone	2250 - 2310	
Marcellus shale	2310 - 2475	
Tioga-Metabentonite	2475 - 2480	
Onondagelimestone	2480 - 2510	
Huntersville Chert	2510 - 2645	
Oriskany	2 99 5 – 28 3 0	
Helderberg-limestone	2830 - 346 0	
SILURIAN	3460	

Deputel

Rose Mill shale Tuscarora Sandstone Juniata Formation Shale Trento limestone

Total desta

Top. Bottom.
490b - 5703
5703 - 5917
5917 - 7310
7310 - 10118

13,121