



Form Od-10

Siltstone and Shale

Berea Shale

Marcellus Chondaga

Oriskany



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Quadrangle	Peytona
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Rotary	X
Spudder	
Cable Tools	

Po	ut one		OIL AND	GAS DIVISION	4	CGDIC	
Quadrangle Pe			A W A phones a m			Storage	
Permit No. KA	<u>N-2038</u>		VV E L L	RECORD		Oil or	Gas Well
PACE	BOWER CC	NSTRUCTION	COMPANY	Market Medican Annie Market			KIND
company <u></u>	elson Bld	g. Charles	ton W.Va.	Casing and	Used in	Left in	Packers
		ier Heirsa		Tubing	Drilling	Well	
rarmidoscii	Four Mil	e Fork of	Cres 1070010	Size			
Well No.			808.05K.	B 0 /0 //	2// 2/8	248	Kind of Packer G.L.
					1		
		fee by Lucy S			1		Size of
		AddressCharle		•	1 1	†	.L. 5140
							Depth set 5140
		Address		9 0 / 10	7		See Completion
Drilling commend					L1.6%-522	1	Leerf. top
		,				5140 - G	• Leerf. bottom
Date Shot	From	То_То_		Liners Used	<u></u>		Perf. top
With							Perf. bottom
Open Flow	/10ths Water i	n	Inch				
	/10ths Merc. i	n	Inch	See Chron	nological	Order	N. 170
Volume			Cu. Ft.				_No, FtDa
Rock Pressure		lbs	hrs.	13-3/8"-	3/ <u>14/00;</u> 5 /2/65	<u> </u>	/21/65
Oil.	я мережана» - « «фантира подати» «Манана по при пред обфанта при пред обфанта по		bbls., 1st 24 hrs.	COAL WAS E	NCOUNTERED	AT	FEETINCH
	RE AFTER TR	EATMENT 20				•	
Fresh Water		Feet		Salt Water		Fee	et
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
		Gamma Log-	log run fr	om K.B. 8	above gr	cound le	vel.
Sand and S	hale(Dril	lers Log)	0		Hole wet a	at 170 (I	Drillers)
Sandstone	ne prominent		185	220			•
Shale	-		220	310			
Sandstone			310 505	505		-	
Shale Sandstone			535	535 568			
Shale			568	5 7 4			
Sandstone :			574	775	Dril	ling Da	ta e
Siltstone	and Shale		775	876	(Air		
Sandstone	911020		876	908	(Air	1	- 0- 190) am- 190-1360)
Shale			908	950	(Air	1	-1360-5000)
Sandstone			950	979	(Mud		-5000-5237)
Shale			979	1012			0000-02017
Sandstone	Manten		1012	1019	13293031	2345	4
Shale			1019	1045	19 Ca.	A "5%	
dittle Lim	e .		1045	1122	2	1:65	A
Sig Lime			1122	1304	REO West	11.65	
Injun	1 ~ 1		1304	1340	West West	TIVEN 3	3

West Wiginia Dept. of Mines 1755 1757 1757 4364 4364 4395 4395 4498 4498 4508 Dolomite (Halderten & Canana) 4508 5185 Sulphur Water Zone 5045-5084 High Conductivity-Peaks at 5052 and 5077 Cored from 5160-5212 (5158-5210 Corrected to Log) (Continued on Attached Sheet) (over)

1755

1340

Formation	Top	Bottom	#16E
Newburg	5185	5204	774
Dolomite - Makenaya	5204	5235	The state of the s
Total Depth		5235 (Logo	ger)
Total Depth		5237 (Dril	ler)

Chronological Order of Events:

3/14/65-Commenced Drilling

3/14/65-Ran 341-G.L. of 13-3/8"-48# Casing. Cemented with 50 bags of cement and l bag of Calcium Chloride.

3/21/65-Logged well from 320-1353-Gamma Ray (1" and 5"), Density (12 and 5") (Lane Wells)

3/21/65-Ran 1350'-G.L. of 9-5/8"-32.3# Casing. Cemented with 125 cubic feet cement and 300# Calcium Chloride. (Dowell)

3/29/65-4/1/65-Cored from 5158-5210. (Oilfield Research)

4/2/65-Completed Drilling.
4/3/65-Logged Well: Gamma Ray-1"-150-5220
(Schlumberger) Gamma Ray-5"-4320-5220 Gamma Ray-1"-150-5220 - Density-1" and 5"-4300-5234 Gamma Ray-5"-4320-5220 - Induction-1358-1930 - 4250-5229 4/3/65-Ran 5227'-G.L. of 4-1/2"-11.6# Casing. Cemented with 120 cubic feet of Litepoz #2 and 400 gallons of Cealment.

4/6/65-Ran Cement Bond Log (McCullough) indicating possibility of channel in primary cement job.

4/7/65-Perforated 4 holes at 5150 and set cement retainer at 5145. Could not pump into well at 3400 psig; released cementing unit.
4/9/65-Perforated from 5186-97 with 4 shots per foot; total of 45 shots with

Zamco Glass Jets. (McCullough)

4/11/65-Acidized with 1500 gallons mud acid and 750 gallons Dowell XF Acid at average pressure of 3400 psi; injection rate of 2.8 BPM. (Dowell) 5/12/65-Re-perforated 4 holes at 5188 and 4 holes at 5194 using 3-3/4" (McCullough) Monoplane.

5/12/65-Re-acidized with 500 gallons mud acid. (Dowell)

6/28/65-Fractured with 640 BBLS. water frac, 500 gallons Mud Spearhead, 26,000# 20/40 sand and 4000# 12/20 glass beads. Maximum pressure 5200 psi, average pressure 5185 psi, average liquid injection rate 18.9 BPM, adjusted injection rate 19.9 BPM. (Dowell)
Well did not respond to fracture. After several weeks of testing it

was decided to re-acidize to clean critical area of bore hole and check for channel with radio-active tracer.

7/15/65-Pumped 1000 gallons of Super Mud Acid with radio-active tracer material. Survey indicated frac job went out top set of perforations and channeled 190 feet up the hole.

7/16/65-Squeezed with 60 sacks common cement with flac. Standing pressure of 4200 psi at surface and 6480 psi on perforations.

7/27/65-Perforated in acid and pumped in 300 gallons of mud acid at 5400 psi at 4 BPM.

/28/65-Fractured with an additional 1000 gallons mud acid, 570 BBLS. water frac, 5000# sand. Average pressure 5500, injection rate 9 BPM.

8/4/65-Abrasijet formation at 5194 since radio-active survey indicated this zone

was not treated initially. 8/6/65-Pumped into formation with acid. Pressure was too high to start fracturing. Acidized with 2000 gallons mud acid and swabbed back.

8/11/65-Attempted to re-jet entire Newburg section with reverse-out jet tool. Jetted approximately 45 minutes and jets wore out. Well cleaned up and no further stimulation attempted.

Production Data:

4/13/65-Open 4 hours -989 MCF-Flow Meter 4/14/65-Open 4 hours - 1,007 MCF-Flow Meter 4/21/65-Open 4 hours - 901 MCF-Flow Meter 901 MCF-Flow Meter 4/23/65-Open 6-1/2 hours - 904 MCF-Flow Meter 5/14/05-Open 1 hour - 1,388 MCF-Flow Meter

5/19/65-Open 1-1/2 hours - 2,524 MCF-Flow Meter

5/19/65-Open 2 hours - 2,543 MCF- 2" Side Static Reading

26/65-Open 3 hours - 2,454 MCF- 2" Side Static Reading 2/65-Open 4 hours - 713 MCF (38/10 M 2") Flow Meter 896 MCF (60/10 M 2") Flow Meter 8/12/65-Open 4 hours -8/13/65-Open 4 hours -

Final open flow = 980 MCF - Open 8-1/2 hours (Flow Meter) 5 day Rock Pressure = 2050#

