

ACCURACY OF SURVEY - 1" in 400'
 ELEVATION FROM Gov. BM N 914 JJS 1956
 Elev. 89500 ON VA. ROUTE 42 OFF
 4 MILE CREEK.

- New Location
- Drill Deeper
- Redrill
- Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company PAGE BOYER CONSTRUCTION COMPANY
 Address ROOM 305 NELSON BUILDING CHARLESTON, W.V.
 Farm MARRET COAL COMPANY
 Tract Acres 1069 4/100 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 875.79
 Quadrangle PEYTONA NC
 County KANAWHA District LOUDDON
 Engineer A. W. H. Miller
 Engineer's Registration No. 1892
 File No. _____ Drawing No. _____
 Date NOV. 20 1967 Scale 1" = 400'

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

WELL LOCATION MAP

FILE NO. KAN-1936
2208

+ 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.



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

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well Gas (KIND)

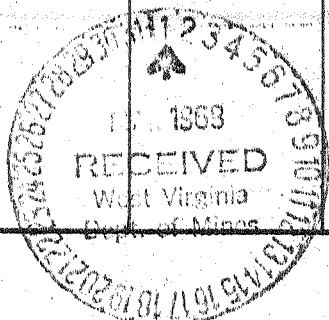
Quadrangle Peytona

Permit No. Kanawha 2208

Company Pace-Bower Construction Co.
Address Room 305 Nelson Bldg. Chas., W. Va.
Farm Marmet Acres 2500
Location (waters) Lens Creek
Well No. 3 Elev. K.B. 892.47
District Loudon County Kanawha
The surface of tract is owned in fee by L.K. Marmet
#1 Morris Apts. Address Chas., W. Va.
Mineral rights are owned by " " " "
Address " " " "
Drilling commenced 12-19-67
Drilling completed 1-10-68
Date Shot Not shot From " " " " To " " " "
With " " " "
Open Flow /10ths Water in " " " " Inch
/10ths Merc. in " " " " Inch
Volume " " " " Cu. Ft.
Rock Pressure " " " " lbs. " " " " hrs.
Oil " " " " bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) 1-15-68 with 3500
gallons after acidizing 3630
WELL FRACTURED (DETAILS) 1-17-68 (See "events")
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 17200 MCF/GD
ROCK PRESSURE AFTER TREATMENT 1950 # 1/hrs. HOURS
Fresh Water " " " " Feet " " " " Salt Water " " " " Feet
Producing Sand Newburg Depth " " " "

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
<u>3/8</u>	<u>160.06</u>	<u>160.06</u>	
<u>9 5/8</u>	<u>1504.26</u>	<u>1504.26</u>	Size of
<u>6 5/8</u>			Depth set
<u>5 3/16</u>			
<u>4 1/2</u>	<u>5392.24</u>	<u>5392.24</u>	Perf. top <u>See "events"</u>
<u>2</u>			Perf. bottom
Liners Used			Perf. top <u>5355</u>
			Perf. bottom <u>5363</u>

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Lithology based on Gamma log - Log measured from K.B. (elev. 892.47)							
Sanstone & Shale			0	100			Drillers Gamma begins at 100' Open mine 115-123 (dreller) Coal 687-688' 6"
Shale			100	115			
Sandstone			115	170			
Shale			170	232			
Sandstone			232	252			
Shale			252	305			
Sandstone			305	320			
Siltstone & Shale			320	370			
Sandstone			370	422			
Shale			422	430			
Sandstone			430	565			
Shale			565	620			
Sandstone			620	692			
Shale			692	722			
Sandstone			722	880			
Siltstone & Shale			880	950			
Sandstone			950	1030			
Shale			1030	1065			
Sandstone			1065	1102			
Shale			1102	1125			
Siltstone			1125	1140			
Shale			1140	1165			
Little Lime			1165	1248			
Big Lime			1248	1430			
Injun			1430	1465			
Shale			1465	1861			
Coffee Shale			1861	1875			



Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Berea			1875	1876			
Shale			1876	4518			
Marcellus			4518	4552	5354 892		
Onondaga			4552	4655			
Oriskany			4655	4667	446		
Chert & Limestone			4667	4799			
Limestone			4799	4866			
Dolomite & Anhydrite			4866	5354		Mudded up	5170
Newburg			5354	5372			
Dolomite & anhydrite			5372	5400			
T.D. logger		5389			T.D. Driller	5400	(Originally 5415-15' Error)
Chronological Sequence of Events:							
12-19-67	Commenced Drilling						
12-19-67	Ran 160.06' of 13 3/8 casing - Cemented with 50 sacks.						
12-30-67	Ran 1504.26' of 9 5/8 casing - One guide shoe and 2 centralizers - cemented with 50 sacks (Dowell)						
1-5-68	Went on mud at 5170						
1-10-68	Logged Well (Schlumberger): Gamma, density, induction, sonic.						
1-11-68	Ran 5392.24' of 4 1/2 casing - Centralizers on joints 1-2-5-8-11-15- Swirl guide shoe on bottom - 1 orifice fill up collar 6.65' off bottom.						
1-11-68	Cemented 4 1/2 with 220 cu. ft. of "litepoz" and 400 gallons "Cealment" (Dowell)						
11-15-68	Ran cement bond (Schlumberger) - Estimated top of cement 4259.						
1-15-68	Perforated Newburg with 446 "Hyperjets" (Schlumberger): 5355, 5355 1/2, 5356, 5356 1/2, 5357, 5358, 5359, 5360, 5361, 5362, 5363.						
1-15-68	Acidized well with 3,500 gallons acid - 1500 mud, 2,000/28%.						
1-16-68	Cleaned up well after acid job.						
	Gauged 3630 MCFGPD						
1-17-68	Fraced Newburg (Dowell):						
	500 gallons acid						
	500 gallons B-11						
	835 BBLs water						
	28,000 # sand						
	Maximum Pressure 4800#						
	Aucrage Pressure 4791						
	Final pump Pressure 4800						
	Immediate Shut in Pressure 4100						
	Adjusted Injection Rate 16.0						
	Final open flow - 17,200 MCFGPD						
	Rock Pressure - 1950 # /12Hrs.						

Date 2-29-68, 1968

APPROVED Paul - Power Const. Co., Owner

By J. A. Fair - vice president (Title)