

ELEVATION FROM O.L.O. WELLS #6 EL. 1008.00  
 SURVEY CONN. - 1" = 1000'

- New Location
- Drill Deeper
- Redrill
- Abandonment

3.52 S  
 2.23 W  
 2C (K-5)

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 PACE BOYER CONSTRUCTION COMPANY  
 Address ROOM 305 NELSON BUILDING, CHARLESTON, W.VA.  
 Farm GREAT MANAWHA PETROLEUM COAL & LUMBER COMPANY  
 Tract \_\_\_\_\_ Acres 2809 Lease No. \_\_\_\_\_  
 Well (Farm) No. (22) Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1053.09  
 Quadrangle PETTONA - NC  
 County MANAWHA District LOUDDON  
 Engineer Geo. H. Miller  
 Engineer's Registration No. 1892  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date AUGUST 28 1965 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. KAN-2058

+ 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.

ALLEN BLUEPRINT & SUPPLY CO.  
 No Samples 6-6 305 Deep Well



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Rotary [X] Spudder Cable Tools Storage Oil or Gas Well GAS

1-17-66

Quadrangle Peytona Permit No. Kan. 2058

WELL RECORD

Company Pace Power Construction Company Address 305 Nelson Bldg., Charleston, W. Va. Farm. Great Kanawha Petroleum Coal & Lumber Location (waters) Lane Creek Well No. 22 District Loudon County Kanawha

Casing and Tubing Used in Drilling Left in Well Packers Kind of Packer Size 3/8(4.0) 27 27 9-5/8(32#) 1605.19 1605.19 7(23#) 5396 873 5380

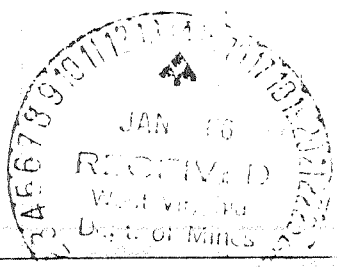
Drilling commenced 8/30/65 Drilling completed 9/21/65 Date Shot not shot From To With Open Flow 1/10ths Water in 1/10ths Merc. in Volume flow gas natural - Newburg Roofers Rock Pressure lbs. Nonn Oil Nonn bbls., 1st 24 hrs. WELL ACIDIZED See completion data

Ground Level Measurement 27 27 5668.45 5668.45 5380 5380 Liners Used CASING CEMENTED SIZE No. Ft. Date See completion data COAL WAS ENCOUNTERED AT FEET INCHES FEET INCHES FEET INCHES

WELL FRACTURED See completion Data RESULT AFTER TREATMENT 980 MCF - Newburg ROCK PRESSURE AFTER TREATMENT 2000# Fresh Water 65# Feet

Table with 8 columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Includes lithology data and drilling dates.

DRILLING DATE: 0-1615 Air and Foam 1615-5250 Air 5250-5104 Mud 5104-5675 Air



Deep Well

Formation	Color	Hard or Soft	Top 10	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale			591	597			
Sandstone			597	700			
Shale			700	724			
Sandstone			724	727			
Shale			727	766			
Sandstone			766	788			
Shale			788	810			
Sandstone			810	835			
Shale			835	878			
Sandstone			878	972			
Shale			972	986			
Sandstone			986	993			
Siltstone			993	1024			
Sandstone			1024	1041			
Siltstone and shale			1041	1074			
Sandstone			1074	1090			
Shale			1090	1103			
Sandstone			1103	1117			
Shale			1117	1121			
Sandstone			1121	1167			
Shale			1167	1204			
Sandstone			1204	1252			
Shale			1252	1266			
Sandstone			1266	1274			
Shale			1274	1301			
Little Lime			1301	1378			
Big Lime			1378	1567			
Inim			1567	1591			
Siltstone - Macchady			1591	1615			
Shale			1615	2000			
Coffee shale			2000	2013			
Iron			2013	2015			
Shale			2015	1640			
Onondaga			1640	1738			
Cristony			1738	1749			
Limestone, Dolomite, Anhydrite			1749	5411			H <sub>2</sub> S Zone 5280-5310
Newbury			5411	5429			Show Gas (Baroid Sniffer)
Dolomite			5429	5550			
Limestone			5550	5604			
Koofar Sand			5604	5650			Show Gas (Baroid Sniffer)
Shale - Rose Hill			5650	5675			
T.D.			5675				(Driller & Logger)

SEE ATTACHED COMPLETION DATA

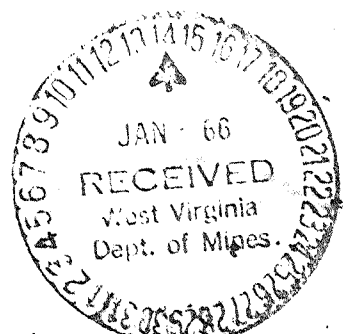
Date January 12, 19 66

APPROVED Pace - Bauer Construction Co., Owner

By G B Pace - President  
(Title)

CHRONOLOGICAL ORDER OF EVENTS:

- 8/30/75 Commenced Drilling
- 8/30/65 Ran 27.00 Feet of 13-3/8" casing - cemented with 20 sacks of cement and one sack of calcium chloride
- 9/6/65 Ran 1605.49 feet of 9-5/8" casing with guide shoe and four centralizers cemented with 40 sacks cement and 5 gallons Resiment.
- 9/14/65 Ran 5396 feet of 7" casing with guide shoe and 5 centralizers cemented with 95 sacks of cement.
- 9/21/65 Completed Drilling - T. D. 5675
- 9/21/65 Logged Well (Schlumberger):
  - Gamma Ray - 1" and 5" - 50 to 2100; 4480-5674
  - Density - 1" and 5" - 5100 to 5674
  - Induction - 5" - 5100-5669
- 9/21/65 Ran 5668.45 feet of 4-1/2" casing with Float Shoe, Float Collar, and 6 Centralizers - Cemented with 45 sacks cement. (Dowell)
- 9/24/65 Perforated 4-1/2" casing with 15- 3-5/8" Selecto Jets. (Birdwell): 9 Holes 5618-5626 (Schlumberger Meas)  
6 Holes 5641-5645 " "
- 9/25/65 Fractured Keefer (Dowell):
  - Props & Liquids Injected:
    - 500 Gallons mud acid
    - 13,000 # - 20/40 Sand
    - 557 BBLs. Water
    - 80,000 Scf. of Nitrogen
  - Treating Data:
    - Breakdown Pressure - 3,000#
    - Average Pressure - 2,591#
    - Average Liquid Injection Rate - 11.4
    - Adjusted Injection Rate (Solids) - 11.8
  - Results:
    - Show Gas before Frac
    - Slight increase after frac.
- 9/27/65 Set Plug with Calceal at 5490'
- 9/27/65 Perforated Newburg (Birdwell):
  - 2 Shots/Foot 5414-16 (Schlumberger Meas.)
  - 4 Shots/Foot 5419-23 " "
- 9/27/65 Fractured Newburg (Dowell):
  - Props & Liquids Injected:
    - 500 gallons Mud Acid
    - 13,000# - 20/40 Sand
    - 1,500# - 12/20 Glass Beads
    - 611 BBLs. Water
    - 115,000 SCF. of Nitrogen
  - Treating Data:
    - Breakdown Pressure - 4900#
    - Average Pressure - 4862#
    - Average Liquid Injection Rate - 10.8
    - Adjusted Injection Rate (Solids) - 11.2
  - Results:
    - Show Gas before Frac (Less 50 MCF)
    - 680 MCF after Frac.



DEEP WELL

11/12/65

Acidized Newburg Through 2-3/8" Tubing (No Packer) set at 5417  
(Dowell):

Liquids Injected:

1,000 Gallons Mud Acid  
750 Gallons Dowell X (HCL-Acid)

Results:

Before Acidizing 680 MCF  
After Acidizing 980 MCF ✓

Ran 5380 Feet of 2-3/8" Tubing with Packer at 5380

FINAL OPEN FLOW - 980 MCF and 2,000# R.P.

Kan-2058