

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Farm Name: C. O. Davis Operator Well No. 7
Location: Elevation: 1840.16' Quadrangle: Jaeger 7.5
District: Sandy River County: McDowell
Latitude: 4,646 Feet South of 37 Degrees 27 Minutes 30 Seconds
Longitude: 1,360 Feet West of 81 Degrees 47 Minutes 30 Seconds

Company: Northport Production Company
2601 NW Expressway St. Suite 902-E
Oklahoma City, Oklahoma 73112

Agent: W. T. White
Inspector: Barry Stollings
Permit Issued: 11/5/2005
Well work Commenced: 8/18/2005
Well work Completed: 9/23/2005
Verbal Plugging Permission granted on: N/A
Rotary Cable Tool Rig
Total Depth (ft): LTD- DTD-
Fresh Water Depths (ft):
Salt Water Depths (ft):
Is coal being mined in area:
Coal Depths:

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft.
Rows: 16", 12 3/4", 9 5/8", 7", 4 1/2"
Content: See Original WR-35

OPEN FLOW DATA:

Producing formation(s): Berea, Big Lime, Ravencliff Pay zone depth (ft) See Next
Gas: Initial open flow Trace MCF/D Oil: Initial open flow 0 Bbl/d
Final open flow 152 MCF/D Final open flow 0 Bbl/d
Time of open flow between initial and final tests: 36 Hours
Static rock pressure 235 psig (surface pressure) after 72 Hours

Second producing formation(s): Pay zone depth (ft)
Gas: Initial open flow MCF/D Oil: Initial open flow Bbl/d
Final open flow MCF/D Final open flow Bbl/d
Time of open flow between initial and final tests: Hours
Static rock pressure psig (surface pressure) after Hours

NOTE: ON THE BACK OF THIS FORM PUT THE FOLLOWING; 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.)THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: Northport Production Company
BY: Tom White - Consultant
DATE: 7-19-2013

RECEIVED
Office of Oil & Gas

JUL 22 2013
07/26/2013
WV Department of Environmental Protection

**January 19, 2005**

MIRU Meeks Wireline to run GR/CBL/CCL from TD - 1600' (all depths correlated back to open hole log).

Logger's TD -- 6512'      Calc TOC -- N/A      Actual TOC -- N/A      Marker Jt. 1 -- 4330'

**February 8, 2005**

MIRU Allegheny Wireline to run GR/CBL/CCL from TD - 700' (all depths correlated back to open hole log).

RJH found no cement below 5000', set Solid Bridge Plug at 6490'. ROH with wireline.

Logger's TD -- 6478'      Calc TOC -- 3975'      Actual TOC -- 800'      Marker Jt. 2 -- 2246'

**August 18, 2005**

MIRU Superior Well Services to conduct a squeeze cement job (775' - Surface).

RIH with wireline, set Solid Bridge Plug at 775'. ROH with wireline.

RIH with 3 1/8" HSC perforating gun, shot 4 sqz hole at 775', dumped 85 sks. Class A Cmt.

MIRU Petty's Well Service to drill out plugs to TD, then swab well dry.

**September 23, 2005**

MIRU Fisher Wireline Services to perforate 3-stage job.

RIH with wireline, set Solid Bridge Plug at 4560'. ROH with wireline.

MIRU Universal Well Services to conduct 3-stage completion. Tested lines to 4500 psi.

RIH with 3 1/8" SF perforating gun, perforated Berea (4411' - 4443'). ROH with gun.

**1st Stage - Berea: (4411' - 4443') - 25 holes total. 75-Q Foam Frac.**

3 Bbls. (125 gals.) 15% HCl; 45,000 lbs. 20/40 Sand, 1-4 ppg; 184 Bbls. Twtr; 474 Mscf N2.

BKDN -- 2150 psi.      ATP -- 1800 psi.      AIR -- 18.0 bpm.      ISIP -- 1500 psi.

RIH with 3 1/8" SF perforating gun, perforated Big Lime (3436' - 3746'). ROH with gun.

Set "LM" Frac Plug at 825'. Dropped frac ball in 12 Bbls. 15% HCl, followed by N2 breakdown.

**2nd Stage - Big Lime: (3436' - 3746') - 12 holes total. N2 Energized Acid Frac.**

48 Bbls. (2000 gals.) 15% HCl; N2.

BKDN -- 2830 psi.      ATP -- 2087 psi.      AIR -- 5.0 bpm.      ISIP -- 2400 psi.

RIH with 3 1/8" SF perforating gun, perforated Ravencliff (2318' - 2328'). ROH with gun.

Set "LM" Frac Plug at 2350'. Dropped frac ball in 12 Bbls. 28% HCl, followed by N2 breakdown.

**3rd Stage - Ravencliff: (2318' - 2328') - 16 holes total. 75-Q Foam Frac.**

12 Bbls. (500 gals.) 28% HCl; 29,000 lbs. Sand, 1-3 ppg; 165 Twtr; 334 Mscf N2.

BKDN -- 3810 psi.      ATP -- 2927 psi.      AIR -- 19.5 bpm.      ISIP -- 2463 psi.

RDMO Fisher Wireline and Universal Well Services. RU flowback and open well on 1/4" choke.

**RECEIVED**  
Office of Oil & Gas

JUL 22 2013

WV Department of  
Environmental Protection

07/26/2013