

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/16/2012
API #: 47-033-04927

Farm name: Diana Goff Cather - TRST Operator Well No.: Goff 42

LOCATION: Elevation: 1360' GL Quadrangle: Wolf Summit 7.5'

District: Coal County: Harrison
Latitude: 3,150 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 3,550 Feet West of 80 Deg. 20 Min. 30 Sec.

Company: Petroleum Development Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>120 Genesis Boulevard</u> <u>Bridgeport, WV 26330</u>	<u>13 3/8"</u>	<u>22'</u>	<u>22'</u>	<u>Sanded In</u>
Agent: <u>Bob Williamson</u>	<u>9 5/8"</u>	<u>276'</u>	<u>276'</u>	<u>139</u>
Inspector: <u>Tim Bennett</u>	<u>7"</u>	<u>1161'</u>	<u>1161'</u>	<u>347</u>
Date Permit Issued: <u>09/10/2007</u>	<u>4 1/2"</u>	<u>4833'</u>	<u>4833'</u>	<u>368</u>
Date Well Work Commenced: <u>08/25/2009</u>				
Date Well Work Completed: <u>08/27/2009</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>5225'</u>				
Total Measured Depth (ft): <u>5225'</u>				
Fresh Water Depth (ft.): <u>35', 420', 890'</u>				
Salt Water Depth (ft.): <u>None Reported</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>480', 930'</u>				
Void(s) encountered (N/Y) Depth(s) <u>234' -244'</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation 4th Sand Pay zone depth (ft) 2482'

Gas: Initial open flow TSTM MCF/d Oil: Initial open flow --- Bbl/d

Final open flow 60 MCF/d Final open flow --- Bbl/d

Time of open flow between initial and final tests 48 Hours

Static rock Pressure NT psig (surface pressure) after --- Hours

Second producing formation Gordon (comingled) Pay zone depth (ft) 2286'

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

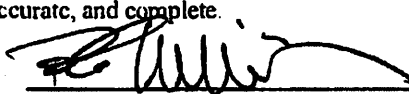
Static rock Pressure --- psig (surface pressure) after --- Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

11/15/2012

Date

11/23/2012

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list JW Wireline GR/CCL log from 2640' to 2100'

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

2009/08/25: MIRU Weatherford Fracturing Technologies crew and JW Wireline Company. Pressure tested casing and ran a correlation log.

Set a composite bridge plug @ 2569'. Perf 4th Sand at 2482-2542 w/22 holes. RU Weatherford & pump 12 bbls 15% HCl ahead of an N2 assist

linear AquaFrac w/ 50,255 lbs of 30/50 sand, 156,420 SCF N2, & 487 bbls treated fluid. Break at 1,775psi & avg treating foam rate was 19.9 BPM

& ATP was 2,377 psi. Drop 12 bbls 28% HCL. ISIP = 1,714 psi. Set composite flow through frac plug @ 2320'. Perf Gordon at 2286-2286 w/20 holes.

RU Weatherford & pump an N2 assist linear AquaFrac w/ 31,658 lbs of 30/50 sand, 132,915 SCF N2, & 479 bbls treated fluid.

Break at 2,420 psi & avg. treating foam rate was 20.2 BPM & ATP was 2,750 psi. ISIP = 1,926 psi. RDMO Weatherford.

Plug Back Details Including Plug Type and Depth(s):

Comp. Bridge Plug @ 2569' & Comp. Flow Thru Frac Plug @ 2320'. Both drilled out & hole cleaned to original TD @ 4705'.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

See Attached WR-35 & "Well Log" from original completion of this well (47-033-04927).

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