WR-35 Rev (8-10)

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

DATE:	2-24-2011
API#:	47-4104007

Farm name: Yochym, Charles Gregory	Operator Well No.: Mullooly1				
LOCATION: Elevation: 1398	Quadrangle: Roanoke				
District: Courthouse	County: Lewis				
Latitude: 39 Feet South of 00 Deg.	00 Min.			•	
Longitude 80 Feet West of 25 Deg.	00 Min.	Sec.			
Сотрапу:					
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Petroleum Development Corp. 120 Genesis Blvd. Bridgeport, WV 26330		dining		up Cu. 1 L	
Agent: Bob Williamson					
Inspector: Tim Bennett					
Date Permit Issued: 12/17/2007					
Date Well Work Commenced: 3-2-2007	<u> </u>				
Date Well Work Completed: 6-17-2008					
Verbal Plugging:		22	and they aren't a them in /		
Date Permission granted on:		V -	ECEIVED	2.00	
Rotary X Cable Rig			of Oil & C	18.5	
Total Vertical Depth (ft):		· · · · · · · · · · · · · · · · · · ·	n a a 2011		
Total Measured Depth (ft):		Ť.	EB 2 8 2011		
Fresh Water Depth (ft.): None		115/18/2	BURTINET		
Salt Water Depth (ft.): None			rental Pro		
Is coal being mined in area (N/Y)?		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1821111011 1 12	9 0 X (1) 2 D (3-)	
Coal Depths (ft.): 595,1072,1100'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Void(s) encountered (N/Y) Depth(s)					
OPEN FLOW DATA (If more than two producing formatio	ons please includ	le additional dat	a on separate sh	eet)	
Producing formation 3rd Sand Pay 2	zone depth (ft)2	758-2761'	•	•	
Gas: Initial open flow MCF/d Oil: Initial open fl					
Final open flow TIL @ 41 MCF/d Final open flow		l/d			
Time of open flow between initial and final tests	Hours				
Static rock Pressure 380 psig (surface pressure) af	ter <u>24</u> Hour	S			
Second producing formation Gordon Pay zon	ne dopth (ft) 264	7-52'			
Gas: Initial open flow co-mangled MCF/d Oil: Initial open fl		ol/d			
Final open flow MCF/d Final open flow		l/d			
Time of open flow between initial and final tests					
Static rock Pressurepsig (surface pressure) af	terHour	'S			
I certify under penalty of law that I have personally examined a	and am familiar	with the inform	ation submitted o	on this document and all	
the attachments and that, based on my inquiry of those individu					
the information is true, accurate, and complete.		ż	ł		
dellhin		2/2	5/200		
Signature	**************************************		Date .	00/00/00	

Were core samples taken? YesNo_N	Were cuttings caught during drilling? YesNo_N
Were $\frac{N}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{N}{Y/N}$ or Geophysical I	ogs recorded on this well?
NOTE: IN THE AREA BELOW PUT THE FOLLOW: FRACTURING OR STIMULATING, PHYSICAL CHANGE, DETAILED GEOLOGICAL RECORD OF THE TOPS AND ENCOUNTERED BY THE WELLBORE FROM SURFACE TO	ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC BOTTOMS OF ALL FORMATIONS, INCLUDING COAL
Perforated Intervals, Fracturing, or Stimulating:	
06-17-2008: MIRU Universal & Superior Wireline. Se	et RBP at 2810' and perforate 3rd SS with 9 holes
at 2758-61'. RU Universal and treat well. Well broke a	t 2364psi then gel frac with an 80 bbl pad, 257 bbl
treating fluid with 20,000# 20/40 sand. Stage sand at	1# increments from 1-4 PPG. MTP=2875psi, ATP
= 2700psi. ISIP = 1558psi, 5 min = 1479 psi. RIH an	d set RBP at 2700'. Perforate the Gordon with 10
holes from 2647'-52'. RU Universal and break zone at	2092psi. Gel frac the Gordon with 64 bbl pad, 305
bbls treating fluid, 30,000# of 20/40 sand, and flush.	Stage sand at 1PPG increments from 1-4PPG.
MTP = 2884psi, ATP = 2623psi. SD, ISIP = 1654psi,	5min SIP = 1576 psi. RDMO.
Formations Encountered: Top Depth Surface:	n / Bottom Depth
06-18-2008: RU Arvilla Well Service and sand pump t	······································
2795'. Sand pump to 2810' and retrieve 2nd plug. Cle	
and install production valve and turn to production. R	
06-19-2008: Turn well in line with 24hr SIP = 380psi a	ind flowing 41 MCFD into pipeline.

Mullooly ?	‡1
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			80/100	20/40	GAL	(MCF)
om s d E	FORMATION	PERFS	SKS	SKS	GND	(2202)
STAGE	I Oldmir zon	11(4725-4727.5)	100	450	500	63.6
1st	Benson	•		450	750	65.6
na	Balltown	10(3663-3669)	100	450	,50	0000
2nd		10555 2579 EV	100	450	750	36.4
3rd	${ t Balltown}$	11(3576-3578,5)				

WELL LOG

FORMATION TO	P FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10 1924	Coal 595-598; 693-695
sand, shale, RR	10	1936	Coal 1072-1075; 1100-1102
Little Lime	1924 1936	1979	
sand, shale	1979		
Big Lime	2102		
aig Injun	2153		gas chk @ 2005! No Show
sand, shale	2354	-	gas chk @ 2226' No Show
Gantz	2399		
sand, shale	2439	= .	·
50 ft	2504		
sand, shale	2531		
30 ft	2574	2588	
sand, shale	2588	2651	gas chk @ 2697' 10\10-1"H2O
Gordon	2651	2749	gas chk e 2007 10 (10
sand, shale	2749	2770	
3rd No. 3 C	2770	2927	gas chk @ 2916° 10\10-1"H2O
sand, shale	2927	2979	-
5th	2979	3286	gas chk @ 3291' 10\10-1"H2O
sand, shale	3286		-
Speechley	3467		gas chk @ 3600' 10\10-1"H20
sand, shale	353		
Balltown	380		gas chk @ 4099 20\10-1"H20
sand, shale Bradford	385		gas chk @ 4315 15\10-1"H
sand, shale	398		-
Riley	450		gas chk @ 4687; 12\10-1"H20
sand, shale	459	Y	gas chk @ 4718' 50\10-1"H20
Benson	470	7	
sand, shale	474		Driller TD 56\10-1"H2O
Burnet Promise	484	4047	Collars 40/10-1"H20
		4842	Logger TD