WR-35 Rev (9-11)

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 #:	47-017-04106

Farm name: Hinter, Phyllis, Et Al	Operator Wel			
LOCATION: Elevation: 1.124 GL	_ Quadrangle: _	New Millon 7.5		
District: New Milton Latitude: 2,830 Feet South of 39 Deg	. 10 Min	ddridge 00Se	c.	
Longitude 4.820 Feet West of 80 Deg	g. <u>42</u> Min	. <u>30</u> Se	c.	
Company: Petroleum Development Corporation				
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	16"	12'	12'	Sanded In
Agent: Bob Williamson	11 3/4"	174'	174'	124
Inspector: David Scranage	8 5/8"	1745'	1745'	599
Date Permit Issued: 04/27/2009	4 1/2"	5579'	5579'	904
Date Well Work Commenced: 07/27/2009				
Date Well Work Completed: 07/29/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig 🗸				
Total Vertical Depth (ft): 5616'				
Total Measured Depth (ft): 5616'				
Fresh Water Depth (ft.): 127', 1638'	-			
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None Reported				
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing format	ions please inclu	do additional a	loto on conomic o	-h
	zone depth (ft)		ata on separate s	sneetj
Gas: Initial open flowMCF/d Oil: Initial open		bl/d	Y	
Final open flow 146 MCF/d Final open flo		ol/d		
- · · · · · · · · · · · · · · · · · · ·	Time of open flow between initial and final tests 24 Hours			
				nor. 37 200
Second producing formation Weir (commingled) Pay zone depth (ft) 2442'				
Gas: Initial open flowMCF/d Oil: Initial open flowBbl/d Final open flowMCF/d Final open flow Bbl/d				
Time of open flow between initial and final tests Hours				
Static rock Pressure psig (surface pressure) a		ts		
I certify under penalty of law that I have personally examined	l and am familia	r with the info	mation cubmitte	d on this dogween and
all the attachments and that, based on my inquiry of those ind	lividuals immedi	ately responsib	le for obtaining	the information I believe
that the information is true, accurate, and complete.				
Allei	`	10.	16/2012	
Signature	•		Date	404040

Were core samples taken? Yes	No_XX	Were cutting	s caught during drilling?	YesNo_XX
Were Electrical, Mechanical or Geophy Hotwell Wireline GR/CCL tog from 3000' - 2300'.	sical logs recorded or	n this well? If yes, p	olease list	
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE V	G, PHYSICAL CHA ORD OF THE TO	NGE, ETC. 2). THE PS AND BOTTO	IE WELL LOG WHICH MS OF ALL FORMAT	IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stin	nulating:			
07/27/2009: MIRU Hotwell Service Wireline & ran in hole	and set composite bridge plug	at 2,890'. RU BJ Serv. & Stir	mulated well with 30 quality N2 assist,	20,129 lbs of 20/40 white sand
and 64,000 acl N2(ATP 2,470 palg, MTP 2,678 palg) (Avg Raics 20bpm; 6	8.600 scim). Broke down formation at 2	2,085 psig. Pumped a pad ol 39 bbl., 1	8,000 sci @ 15 bpm, 6,600 scim. Ramped sand	concentrations from .5-4 ppa in 154 bbt
46,000 sfm @ 20 bpm, 6,800 scfm. Pumped 175 bbl o	of sturry (154 bb) of clean Line	ear 1,500 Gel). Flushed with	1 2 bbi spacer, 10 bbi 15% HCl, & 35	bbl of treated H2O @ 19 bpm.
ISIP 1855 psig. 1 mln 1524 psig. 2 mln 1500 psig. 5 mln 1432 psig. 1	10 min 1404 psig. 15 min 1380 psig.i	Holwell set a flow through comp. pl	ug at 2,513".Stimulated well with 25 quality N2	assist, 35157 lbs of 20/40 white sand
and 155000 sci N2 (ATP 3233 psig. HTP 3328 psig) (Avg Rates 22 bpm	: 7700 scim). Brokedown formation at	2130 psig. Pumped a pad of 64 bbl.	24000 sel @ 22 bpm. 6700 sclm. Ramped sam	d concentrations from 5-3 ppm in 283 bbl.
115000 stm @ 23 bpm, 7700 sctm. Held 3# eand concentration	for 17 bbl, 8000 scl @ 23 bpm, 77	00 actm. Held 4# sand concentre	illion for 17 bbl, 8000 scf @ 23 bpm, 7700 s	cl. Pumped 315 bbl of slurry in ramp
Plug Back Details Including Plug Type	and Depth(s): (283 bbl	of clean Linear 1500 Gel). Pu	mped 38 bbls of starry in 3 & 4# holds (34 bbl of clean Linear 2000 Gel)
Flushed with 40 bbl of H2O @ 23 bpm.ISIP	2263 psig, 1 min 1858	psig, 2 min 1828 psig,	5 min 1795 psig, 10 min 177	0 psig, 15 min 1740 psig.
Formations Encountered: Surface:	Тор	Depth .	1	Bottom Depth
See Attached WR-35 & "Well Lo	og" from original c	completion of this	s weli (47-017-04106)).
				<u>:</u>
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COX HEIRS #4

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
lst	Alexander	13 (5212'-5363')	50	400	500	51
2nd	Benson/Riley	12 (4644'- 4997')	50	400	500	45

WELL LOG

			REMARKS: FRESH & SALT
FORMATION	TOP FEET	BOTTOM FEET	WATER, COAL, OIL & GAS
KB - GL	0	10	1/2" water @ 127'
sand, shale, RR	10	1943	1/2" water @ 1638'
Maxton	1943	2012	-
sand, shale	2012	2204	gas chk @ 2109' No Show
Big Lime	2204	2249	gas chk @ 2173' No Show
sand, shale	2249	2252	gas chk @ 2235' No Show
Big İnjun	2252	2326	
sand, shale	2326	2424	gas chk @ 2362' No Show
Weir	2424	2535	5 ,
sand, shale	2535	2630	gas chk @ 2580' No Show
Berea	2630		B C
sand, shale	2656		gas chk @ 2771' No Show
Gordon	2819		5 C
sand, shale	2850		gas chk @ 2990' No Show
5th	3170		gas chk @ 3084' No Show
sand, shale	3218		gas chk @ 3366' No Show
Warren	3470		B C
sand, shale	3642		
Speechley	3760		
sand, shale	4140		·-
Balltown	4154		
sand, shale	4434		
Bradford	4491		gas chk @ 4555' No Show
sand, shale	4642		Pag cur 6 4333 No pilon
Riley	4826		
sand, shale	4049		gas chk @ 5056' No Show
Benson	5092		Wolld on ococ b and and
sand, shale	5132		gas chk @ 5150' No Show
	5186		Bas cur @ JIJO, NO 200M
Leopold	5234		and able A 5305/ No Observ
sand, shale			gas chk @ 5305' No Show
Alexander	5328		gas chk @ 5522' No Show
sand, shale	5469	5616	Drillers TD
		5621	Logger TD