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#:	47-017-04105	W

Farm name: Hinter, Phyllis, Et Al	Operator Well No.: Cox Heirs 3			
LOCATION: Elevation: 1257 GL	Quadrangle: _	New Milton 7.5		
District: New Milton	County: Dod	dridge		
Latitude: 1,030 Feet South of 39 Deg. Longitude 4,830 Feet West of 80 Deg.	10 Min.	ooSec		
Longitude 4,000 Peet West of 50 Deg.		Sec	•	
Company: Petroleum Development Corporation	<u></u>			
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	177'	177'	128
Agent: Bob Williamson	8 5/8"	1815'	1815'	615
Inspector: David Scranage	4 1/2"	5662'	5662'	902
Date Permit Issued: 04/27/2009				
Date Well Work Commenced: 07/28/2009				
Date Well Work Completed: 08/07/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig V				
Total Vertical Depth (ft): 5750'				
Total Measured Depth (ft): 5750'				
Fresh Water Depth (ft.): 40', 1784'				
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 formation		سنست		L
	one depth (ft)		na on separate s	neet)
Gas: Initial open flow 237 MCF/d Oil: Initial open fl	low_5B	bl/d		
Final open flow 103 MCF/d Final open flow		l/d	1	
Time of open flow between initial and final tests 24 Static rock Pressure NT psig (surface pressure) af	Hours			
p				Same and the second
Second producing formation Weir (commingled) Pay zone depth (ft) 2624'				
Gas: Initial open flowMCF/d Oil: Initial open flowBbl/d Final open flowMCF/d Final open flowBbl/d				
Time of open flow between initial and final tests Hours				
Static rock Pressurepsig (surface pressure) af	ter Hou	rs		
I certify under penalty of law that I have personally examined a	and am familiar	with the inform	nation submitted	i on this document and
all the attachments and that, based on my inquiry of those indiv				
that the information is true, accurate, and complete.				
at we	7	10/1	6/2012	
Signature	 	- · -	Date	40/40/20

Were core samples taken?	YesNo_XX	Were cutting	s caught during drilling? Yes_	No_XX
Were Electrical, Mechanical (or Geophysical logs record	ed on this well? If yes, p	lease list Hotwell Wireline GF	R/CCL log from
FRACTURING OR STIME	ULATING, PHYSICAL (AL RECORD OF THE	CHANGE, ETC. 2). TH TOPS AND BOTTOM	ETAILS OF PERFORATE E WELL LOG WHICH IS A MS OF ALL FORMATION OTAL DEPTH.	A SYSTEMATIC
Perforated Intervals, Fracturin	ng, or Stimulating:			
2009/08/07: MIRU Hotwell Servi	ice Wireline & Halliburton Fr	ac Crew. Ran in hole and s	et composite bridge plug at 3,01	0'. Pressure tested
lines to 4,500 psig. Filled hole with	1 12 bbi of acid and treated wa	ter. Pressure tested to 3,500	psig. Perforated and fractured Go	rdon
formation. Stimulated well with 30 quality N2 as	sist, 25004 lbs of 20/40 white sand and 65	5117 sci N2 (ATP 2352 psig, MTP 2597	psig) (Avg Rates 23.6 bpm; 4089 scfm). Broke d	own formation at 2597 psig.
Pumped a pad of 27 bbl, 2.150 scl @ 17.9 bpm, 1,3	116 scfm. Ramped sand concentrations from .	5-4 pps in 287 bbt, 5,161 stm @ 28.3 bpm,	, 82,838 sci. Pumped 330 bbl of sturry. Flushed with	7 bbl spacer, 12 bbl 20% HCl,
& 31 bbl of treated H2O @ 11 bpm. IStP 1,627 ps	ag, 2 min 1,483 paig, 5 min 1,373 paig, 10 m	in 1,333 psig, 15 min 1,313 psig. Hotwell s	set a flow through comp. plug at 2,683°. Perforated	and fractured Weir formaition.
			Retes 22.0 bpm; 5,305 scim). Broke down forma	
Plug-Back Details Including I	Plug Type and Depth(s): pe	ad of 50 bbl, 6617 scf @ 17,1 bpm, 199	5 sc/m. Ramped sand concentrations from .5-3	ppa in 264 bbl, 92110 sfm
@ 23 bpm, 5,704 scfm.Held 3# sand co	ncentration for 62 bbl, 19,456 scf @	24 bpm, 5,779 scfm. Held 4# sai	nd concentration for 45 bbl, 20,722 scf @	3 18.5 bpm, 5,783 scf. **
Formations Encountered: Surface:		Top Depth	/ Botto	om Depth
See Attached WR-35 &	"Well Log" from origin	nal completion of this	well (47-017-04105).	
		•		
			·	
MD				
		rushed with 32 bbi of H2O @ 11 bpm	n ISIP 2580 ps/g, 1 mm 2183 psig, 2 min 21	52 psig, 5 min 2097 psig,
10 min 2060 psig, 15 mi	ii zuo4 psig.			

COX HEIRS #3

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
lst	Alexander	16 (5532'- 5535')	58	306	500	50
2nd	Benson	16 (5132'- 5135')	58	310	500	39

WELL LOG

			REMARKS: FRESH & SALT
FORMATION	TOP FEET BO	TTOM FEET	WATER, COAL, OIL & GAS
	_		
KB - GL	0	10	1/2" water @ 40'
sand, shale, RR	10	2112	
Maxton	2112	2228	
sand, shale	2228	2306	1" water @ 1784'
Big Lime	2306	2398	gas chk @ 2291' No Show
sand, shale	2398	2403	
Big Injun	2403	2452	gas chk @ 2387' No Show
sand, shale	2452	2595	
Weir	2595	2652	
sand, shale	2652	2764	_
Berea	2764	2788	gas chk @ 2448' No Show
sand, shale	2788	2972	
Gordon	2972	2983	gas chk @ 2670' No Show
sand, shale	2983	3312	_
Bayard	3312	3333	gas chk @ 2750' No Show
sand, shale	3333	3622	gas chk @ 2921' No Show
Warren	3622	3757	gas chk @ 3110' No Show
sand, shale	3757	3785	gas chk @ 3444' No Show
Speechley	3785	4154	gas chk @ 4333' No Show
sand, shale	4154	4204	gas chk @ 5119' No Show
Balltown	4204	4611	gas chk @ 5212' No Show
sand, shale	4611	4646	gas chk @ 5274' No Show
Bradford	4646	4817	G C
sand, shale	4817	5000	gas chk @ 5430' No Show
Riley	5000	5174	gas chk @ 5682' No Show
sand, shale	5174	5228	gas chk @ TD No Show
Benson	5228	5270	Garage C 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
sand, shale	5270	5344	
Leopold	5344	5455	
sand, shale	5455	5475	
Alexander	5475	5590	
sand, shale	5590	5750	Drillers TD
sanu, shale	2230	5748	Logger TD
		3/40	TOBBET IN