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

API <u>47</u> - 017	_ 06091	_ County Doddride	je	District N	lew Miltor	1		
Quad New Milton 7.5	,							
Farm name Robert and				Well Nu				
Operator (as registered v	with the OOG) Jan Chapman - Ke	y Oil Company					
Address 22 Garton Pl				State	w	Zip _	26452	
T Landing Point		Northing Vertical Northing Vertical	E	asting asting				
Botto	om Hole	Northing Vertical	E	asting				
Elevation (ft) 1272	GL	Type of Well	New Existing	Туре	of Report	□Interim	# Final	
Permit Type 🛛 Devi	ated 🗆 F	Iorizontal Horizont	al 6A 🚦 Vertical	Dep	th Type	□ Deep	■ Shallow	
Type of Operation □ C	onvert 🗆]	Deepen Drill	Plug Back □ Re	drilling c	Rework	□ Stimula	ate	
Well Type □ Brine Dis	posal □ CB!	Mi ■ Gas ■ Oil □ Seco	ondary Recovery	Solution Mi	ining 🗆 Sto	orage □ C)ther	
Type of Completion □ Drilled with □ Cable	Single A Mu	ultiple Fluids Produc	ed □ Brine ■Ga	as 🗆 NGL	■ Oil	□ Other _		
Drilling Media Surface	e hole 🗂 Ai	r □ Mud □Fresh Wat	er Intermediat	te hole 🖪 A	ir □ Mud	□ Fresh	Water □ Brine	
Production hole Air	□ Mud	□ Fresh Water □ Brine						
Mud Type(s) and Addit N/A	ive(s)				·-			
Date permit issued	05/02/12	Date drilling comm	enced 08/19/1	3 p.	.4. 4.:11:		08/26/13	
		Date drilling comm 09/04/13			te drilling o			
Date completion activitie		···	Date completion a N/A			A1/A		
Verbal plugging (Y/N)		Date permission granted		Grante	ed by			
Please note: Operator is	required to s	ubmit a plugging applica	tion within 5 days o	f verbal pern	nission to p	lug		
Freshwater depth(s) ft		90'	Open mine(s) (Y/N) depths	F.	N		
Salt water depth(s) ft	•	1300'	Void(s) encountered	d (Y/N) dep	ths	N		
Coal depth(s) ft	N	I/A	Cavern(s) encounte	red (Y/N) de	pths	1 7 1	150	
Is coal being mined in ar	rea (Y/N)	N	 	-		Revie	ewed by:	

API 47- 017	_ 06091	Farm na	_{me} Robert an	d Larry J	ohnston	Well r	umber_4 (fo	ur)	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		asket epth(s)		nt circulate (Y/N) e details below*
Conductor	15"	13-3/8"	33	NEW					SANDED
Surface	12-1/4"	9-5/8*	209	NEW	J-	55			0 SKS. CTS
Coal									
Intermediate 1	8-3/4"	7"	2112	NEW	M-	-65		30	00 SKS.CTS
Intermediate 2	6-1/4"	4-1/2"	5677	NEW	J-	55			SKS. CBL POZ
Intermediate 3									TOC 2100'
Production									
Tubing									
Packer type and de	epth set				<u></u>				
CEMENT DATA	Class/Type of Cement	Number of Sacks			rield ³/sks)	Volume	Cement Top (ML		WOC (lus)
Conductor									-
Surface	CLASS A	80	15.6		1.18		SURFAC	CE	8
Coal									
Intermediate 1	CLASS A	300	15.6		1.18		SURFAC	Œ	8
Intermediate 2	CBL POZ	300	13.5		1.53		2100'		
Intermediate 3									
Production									
Tubing									
Drillers TD (ft) Deepest format Plug back proc Kick off depth	tion penetrated <u>/</u> cedure <u>N/A</u>	ALEXANDER		Loggers T Plug back					
Check all wirel	ine logs run	■ caliper■ neutron	■ density■ resistivity		ed/directio a ray		uction nperature	□sonic	
Well cored	Yes A No	Convention	nal Sidewa	all	We	re cuttings c	ollected 🗆 🤄	Yes ■	No
		ZER PLACEME				_			
					-				
WAS WELL C	OMPLETED A	S SHOT HOLE	□Yes ■ N	No DE	TAILS _			F210	
WAS WELL C	OMPLETED O	PEN HOLE?	□ Yes						
WERE TRACE	ERS USED 🗆 🗅	Yes 🖪 No	TYPE OF TRA	ACER(S) I	JSED				

Farm name_Robert and Larry Johnston____Well number_4 (four) API 47- 017 - 06091

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
1	09/04/13	5450	5522	24	ALEXANDER
2	09/04/13	5082	5178	20	BENSON
3	09/04/13	4732	4784	22	RILEY
4	09/04/13	4260	4318	20	BRADFORD
5	09/04/13	3526	3796	30	BALLTOWN
		·			
				<u> </u>	
				<u> </u>	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	09/04/13	27	3084	3380	2590	25,000	167	392,000
2	09/04/13	23	3320	2860	2800	11,000	119	293,000
3	09/04/13	25	3020	2940	2620	25,000	175	364,000
4	09/04/13	25	3258	2765	4200	17,500	137	269,000
5	09/04/13	27	2443	2245	1620	31,000	202	312,000
						C		
							1:37.35	<u>^13</u>
Dlesce	incert addition	nal pages as ai	nnliachla					ក្រ ប្រវត្តិ

Please insert additional pages as applicable.

Title PRESIDENT

Completed by JAN CHAPMAN

Signature

Date 10/29/13

Telephone (304) 269-7102

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API: 47-017-06091

Farm Name: Robert & Larry Johnston Well number: 4 (four)

ADDITIONAL PAGE FOR PRODUCING FORMATIONS

PRODUCING FORMATIONS

DEPTHS

Balltown

3660 TVD

MD

1.37 23.773