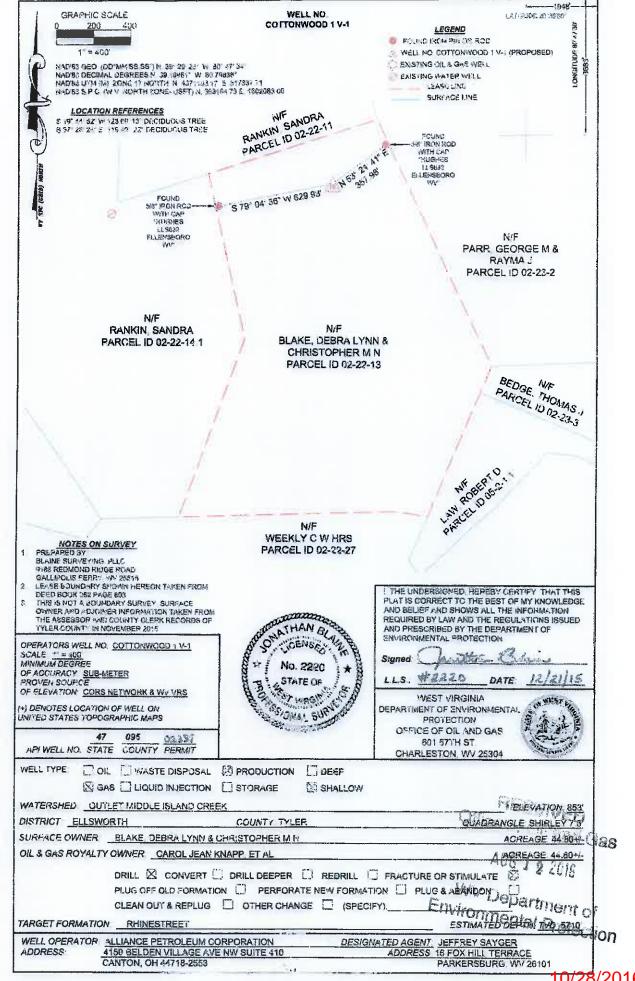
State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 095 02339 County Ty	ler District Ellsworth					
Farm name Blake, Debra Lynn & Chris	Well Number Co					
Operator (as registered with the OOG) Alliance Petro	oleum Corporation					
Address 4150 Belden Village Ave. NW Suite 410 City	y Canton State Ohio	Zip 44718-2553				
Top hole Northing Landing Point of Curve Northing	s-drilled plat, profile view, and deviation survey Easting Easting Easting					
Elevation (ft) 853 GL Type of V	Well ■New □ Existing Type of Report	□Interim ■ Final				
Permit Type Deviated Horizontal H	orizontal 6A 📱 Vertical Depth Type	□ Deep ■ Shallow				
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrilling □ Rework	■ Stimulate				
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Recovery □ Solution Mining □ Sto	orage Other				
Type of Completion Single Multiple Fluids Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresh Water Mud Type(s) and Additive(s) N /A Air Drilled - Soap	sh Water Intermediate hole ■ Air □ Mud					
Date permit issued1/29/16 Date drilling	commenced 3/09/16 Date drilling	Faced 11/1 - 8/14/16				
Date completion activities began3/23/16	Date completion activities ceased	3/30M6and Gas				
Verbal plugging (Y/N) Date permission g	granted Granted by	AUG 1 2 2016				
Please note: Operator is required to submit a plugging a Freshwater depth(s) ft 0-300 minutal	application within 5 days of verbal permission to p	Department of Protection				
Salt water depth(s) ft 1358'	Void(s) encountered (Y/N) depths	N				
Coal depth(s) ft None	Cavern(s) encountered (Y/N) depths	N				
Is coal being mined in area (Y/N) N						
		viewed by:				



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1391 59

API 47- 095	02339	Farm na	_{ame} Blake,	Debra Lyn	n & Chr	IS We	II numberC	ottonwo	od 1V -1
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) e details below*
Conductor	15	13-3/8"	32.40	New	ī	0 36#	N/A	T	Driven
Surface	12-3/4"	9-5/8"	420'	New	H-4	0 26#		Yes	13bbl. returns
Coal									
Intermediate 1	8-3/4"	7"	2117'	New	J-5	5 17#		Yes	16bbls.returns
Intermediate 2									
Intermediate 3									
Production	6-1/2"	4-1/2"	3018'	New	10.5	i# J-55	6		No
Tubing			None						
Packer type and de	pth set				1			<u> </u>	_
Comment Details	4-1/2" Casing Swa	ab Well						_	
CEMENT DATA	Class/Type of Cement	Numbe of Sack			/ie!d t ³ /sks)	Volume (ft ³)	Ceme Top (WOC (hrs)
Conductor	N/A								_
Surface	Class A	157				_	СТ	S	8 hrs.
Coal			1						
Intermediate 1	Class A	299					CT	S	8 hrs.
Intermediate 2									
Intermediate 3									
Production	50/50 poz	84					1430	'GL	
Tubing			1				Î		
-	cion penetrated cedure Fill With Gessure/ Good Bond/ F	el - Establish Circulation El Up	en - Cement ■ density □ resistivity		to (ft)s		induction temperature	□sonic	
Well cored	Yes ■ No	Conventi	onal Side	ewall	W	ere cutting	s collected	⊐ Yes □	No
DESCRIBE TI		ZER PLACEM	ENT USED FO	OR EACH CA	ASING S	TRING			
		AS SHOT HOLE					Q _f	Fire	NI SING Gas
		OPEN HOLE?					Ta all	AUG I	2 2016
WERE TRACE	ERS USED	Yes No	TYPE OF 1	FRACER(S)	USED		Enviror		Timent of Protection 0/28/2016

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API 47-095 _ 02339 Cottonwood 1V -1 Blake, Debra Lynn & Chris Well number Farm name_

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3/23/16	2359	2806	17	Bayard- Gordon Stray-Gantz
	0,20,10				
-					
			<u> </u>		
-					
		1			
	5.				
				-	_

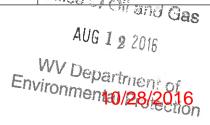
Please insert additional pages as applicable.

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 (!bs)	Amount of Water (bbls)	Amount of Nitrogen/other (units
1	3/23/16	25.8	2476	2650	2623	30,000	500	307 mscf -N2
								500 gal. 15H0
						1.		
 i								
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- 1		-						
			···					
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							Office	Clivery Clivery Gas
							A11166 (

Please insert additional pages as applicable.



Page 4 of 4 WR-35 Rev. 8/23/13 Farm name_Blake, Debra Lynn & Chris Well number Cottonwood 1V -1 API 47- 095 _ 02339 **PRODUCING FORMATION(S) DEPTHS** Gantz 2354 TVD MD Gordon Stray 2539 2796 Bayard Please insert additional pages as applicable. **GAS TEST** ■ Build up □ Drawdown □ Open Flow OIL TEST ■ Flow □ Pump 150 psi SHUT-IN PRESSURE Surface Bottom Hole DURATION OF TEST psi NGL Water **OPEN FLOW** Gas Oil GAS MEASURED BY 23.0 0.0 bpd □ Estimated □ Orifice □ Pilot mcfpd bpd bpd **BOTTOM** BOTTOM LITHOLOGY/ TOP TOP DESCRIBE ROCK TYPE AND RECORD QUANTITY AND FORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) NAME TVD TVD MD MD 0 0 ***SEE ATTACHED - GEOLOGIST REPORT Please insert additional pages as applicable. **Nexus Drilling Drilling Contractor** WV 26378 Address P.O. Box 903 City State Zip Appalachian Well Surveys Logging Company Address 10291 Ohio Avenue Cambridge OH 43725 City State Zip Universal Well Services Cementing Company Address P.O. Box 2437 Buckhannon WV 26201 State Zip City **C&J** Services Stimulating Company Address 8300 Rt. 119 North PA Black Lick State Zip City

Please insert additional pages as applicable.

Martin L. Miller,

Completed by

Telephone (740) 373-8771

Title Sr. V.P. Of Operations

August 9, 2016 Date

12956 Claylick Road Newark, Ohio 43056-9146 Office 740-763-2758 Home 740-763-2758 Mobile 330-763-0479

National Minerals Corporation

ALLIANCE PETROLEUM CORPORATION

COTTONWOOD 1 V-1

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

DIRECTIVE GOOD GAS

AUG 1 & 2016 1 2 2016

Environmell@nmentegtion 10728/2016

Oil, Gas & Mineral Exploration WELL: Alliance Petroleum Corporation 1 V-1 Cottonwood

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02339.

ELEVATION: 853' Ground, 861' KB

STATUS: Preparing to complete as a gas & oil producer.

CASING: 7" @ 2128'.

TOTAL DEPTH: 4426' Driller 4430' Logger.

CONTRACTOR: Nexus Drilling Co.

TOOLS: Rotary.

COMPLETED DRILLING: 3/14/2016.

FORMATION AT TOTAL DEPTH: Devonian shale.

ELECTRICAL SURVEYS: Gamma Ray- Compensated Density- Neutron- Caliper-Temperature- Induction by Appalachian Well Surveys. Mud log by Stratagraph NE, Inc.

SHOWS: Occasional oil fluorescence and excellent oil cut were noted in the Big Injun samples at 1,895'. Several good to excellent shows of gas were recorded in the Big Injun Sandstone. A good show of gas was recorded in the Gordon, while fair shows of gas were noted in the Gordon Stray, Gantz and Maxon.

- ⊑	\cap		//AI	Γ	VNI.	$T \cap$	PS:
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1 st Salt Sand	1356'	- 495
2 nd Salt Sand	1440'	- 579
3 rd Salt Sand	1562'	- 701
Maxon Sandstone	1616'	- 755
Big Lime	1715'	- 854
Keener Sandstone	1772'	- 911
Big Injun Sandstone	1810'	- 949
Weir Sandstone	2139'	-1278
Gantz Sandstone	2354'	-1493
Gordon Stray Sandstone	2539'	-1678
Gordon Sandstone	2592'	-1731
4 th Sand	2716'	-1855
5 th Sand	2752'	-1891
Bayard Sandstone	2796'	-1935
Warren Sandstone	3288'	FIEC242/ED
		orica of Oil and Gai
		· · · · · · · · · · · · · · · · · · ·

AUG 1 3 2016

Balltown Sandstone	3808'	-2947
Bradford Sandstone	4174'	-3313

STRUCTURAL COMPARISON:

	Alliance Petroleum	Alliance Petroleum
	Cottonwood 1 V-1	Yurigan 1V
Big Lime	- 854	- 839
Gordon Sandstone	-1731	-1719
Warren Sandstone	-2427	-2421

GEOLOGY

No significant sandstone development was noted below the Bayard. Fair to good shows of gas were noted on the mud log in the Bayard, 5th and 4th Sands. However, the electric logs indicate that these zones are poorly developed and the gas was probably coming from the Gordon. The fact that the gas shows continued to rise for several hundred feet below the Gordon is probably due to severe pressure depletion in that zone.

I would first recommend completion of the Bayard, 4th, Gordon Stray and Gantz Sandstones. The Bayard (2,797-2,808') shows good thickness (11') but only fair porosity (6%). The 4th (2,724-2,726') and Gordon Stray (2,542-2,545') were fairly thin with low porosity. The mud log did record a small show of gas (background of 30 units to a maximum of 87 units) in the Gordon Stray. The Gantz was thin but had good porosity (12%), with a small show of gas (background of 12 units to a maximum of 117 units) recorded on the mud log.

Some additional gas flow may be possible by perforating the Gordon. It had excellent porosity, with a fair show of gas (background of 27 units to a maximum of 380 units) noted on the mud log. As mentioned above, this gas show continued to build for several hundred feet below the Gordon and maintained 1,000 units to TD.

Future potential also exists in the Big Injun and Maxon. Occasional fluorescence and excellent oil cut were noted in the Big Injun from 1,895 to 1,910'. An excellent show of gas (background of 440 to a maximum of 1,764 units) was also recorded in this zone. Additional shows of gas noted in the Big Injun were at 1,820' (background of 200 units to a maximum of 496 units), 1,887' (background of 500 units to a maximum of 1,690 units) and 1,913' (background of 700 units to a maximum of 1,253 units). A fair show of gas (background of 30 units to a maximum of 378 units) was noted in the Maxon at 1,644'.



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Respectfully submitted,

NATIONAL MINERALS CORPORATION

By: Douglas L. Core, President

March 15, 2016