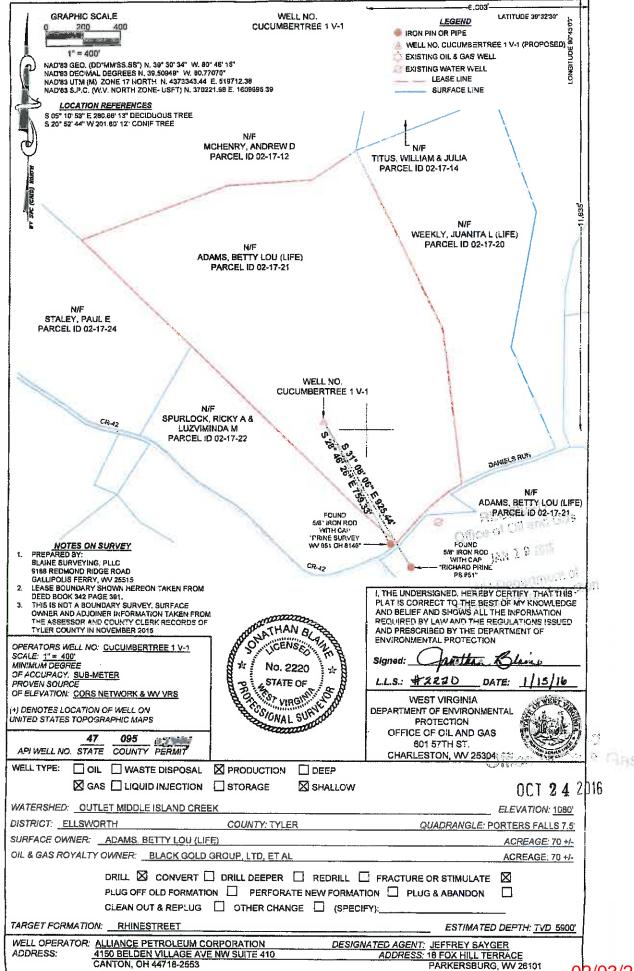
State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 095 - 02344 County Tyler	District Ellsworth
Quad Pad Name	Field/Pool Name
Farm nameAdams, Betty Lou	Well Number Cucumbertree 1V-1
Operator (as registered with the OOG) Alliance Petrole	um Corporation
Address 4150 Belden Village Ave. NW Suite 410 City_	Canton State Ohio Zip 44718-2553
As Drilled location NAD 83/UTM Attach an as-dr Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	Easting
Elevation (ft) 1080' GL Type of Wel	ll ■New □ Existing Type of Report □Interim ■Final
Permit Type Deviated Horizontal Horizontal	zontal 6A ■ Vertical Depth Type □ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrilling □ Rework ■ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ S	Secondary Recovery Solution Mining Storage Other
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air □ Mud □ Fresh Water □ Bi Mud Type(s) and Additive(s) KCL - Clay Stay - Soap	
Date completion activities began 6/9/16	
Verbal plugging (Y/N) Date permission grar	nted Granted by
Please note: Operator is required to submit a plugging app	lication within 5 days of verbal permission to plug
Freshwater depth(s) ft 0-300'	Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1854'	Void(s) encountered (Y/N) depthsN
Coal depth(s) ft	Cavern(s) encountered (Y/N) depthsN
Is coal being mined in area (Y/N)	TOORIVEY GAS Reviewed by:
NAME	November 1992



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API 47- 095 02344 Farm name Adams, Betty Lo					ouWell number_ Cucumbertree 1V-1				
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*		
Conductor	15"	13-3/8"	30'	New	H-40 36#		Driven		
urface	12-3/4"	9-5/8	355'	New	H-40 26#		Y		
oa!							-		
ntermediate 1	8/3/4"	7"	2259'	New	J-55 17#		300		
ntermediate 2									
ntermediate 3			İ						
roduction	6-1/2"	4-1/2"	3227'	New	J-55 10.5#	ŧ	155 Sks.		
`ubing		1-1/2"	3028'	Used	J-55 2.75#	t l			
acker type and de	epth set		·						
Comment Details									
CEMENT	Class/Type	Number	Slurry				ement WOC		
DATA onductor	of Cement	of Sacks	wt (ppg	g) (ft	³ /sks) (ft 3 To	p (MD) (hrs)		
urface	None	Driven					0.70		
'oal	Class A	135'					CTS 8hrs.		
itermediate 1							0.70		
itermediate 2	Class A	300'					CTS 8hrs.		
termediate 3									
roduction									
ubing	50/50 Poz.	155					2727		
uong	N/A								
-) _3252' tion penetrated _ cedure				O (ft) to (ft)				
lick off depth		■ caliper	■ density □ resistivity		ed/directional ray	induction	e □sonic		
Vell cored □	Yes 🖪 No	Convention	nal Sidew	all	Were cu	ttings collected	■ Yes □ No		
ESCRIBE TH 6 Total on 4-1/2 - Every	HE CENTRALIZ	ZER PLACEME	NT USED FOF	R EACH CA	SING STRING	G			
	-								
AS WELL C							OCT 2 4 2016		

WR-35 Rev. 8/23/13

API 47- 095 02344 Farm name Adams, Betty Lou Well number Cucumbertree 1V-1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/9/16	3098'	2948'	20	Bayard - 5th 4th. sands
					-
-					

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	6/15/16	24.1	2,562	2302	1792	267 sks.	256	272 mscf
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						1		
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	i							5010

Please insert additional pages as applicable.

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RODUCING	FORMAT:	ION(S)		<u>DEPTHS</u>							
Bayard				3048	TVD	3056	MD				
5th. Sand				3003		3005					
4th. Sand				2948		2954					
Please insert ac	lditional pa	ges as a	pplicable.								
GAS TEST	-	_		□ Open Flow		OIL TEST	Flow o	⊒ Pump			
HUT-IN PRE		Surface		-	m Hole_	psi	DURA'	-	F TEST	24	hrs
PEN FLOW	Gas 15	mcfpd	Oil	NGL bpd	bpd	Water bpd		IEASU nated			rilot
ITHOLOGY/ ORMATION	TOP DEPTH IN NAME T		BOTTOM EPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTON DEPTH IN MD	FT DESCRIBE					'YAND S, H₂S, ETC)
	0			0							, 1120, 3.0)
							***SEE AT	TACHED	GEOLO	GIST REP	ORT
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			<u> </u>								
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ogging Compa		erford									
ddress 6 Gart	on Plaza			City	Weston		State	WV	Zip _	26452	
ementing Con	npany Uni	versal V	lell Services	3							
ddress P.O.	Box 2437			City	Buckhan	non	State	WV	_Zip_	26201	44
timulating Co	mnony (C&JSe	ervices							10	PARCELLA Herman
ddress 8300 F				City	Black Lic	<u></u>	State	PA	7.in	15716	Allowed Pill
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12956 Claylick Road Newark: Ohio 43050-9146 Office 740-763-2758 Home 740-763-2758 Monte 330-763-0 F/8

National Minerals Corporation

ALLIANCE PETROLEUM CORPORATION

CUCUMBERTREE 1 V-1

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

Office of the R Sat

OCT 24 2016

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

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02344.

ELEVATION: 1080' Ground, 1090' KB

STATUS: Preparing to complete as a gas producer.

CASING: 7" @ 2273'.

TOTAL DEPTH: 3252' Driller 3255' Logger.

CONTRACTOR: Nexus Drilling Co.

100LS: Rotary.

COMPLETED DRILLING: 4/17/2016.

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: An excellent oil cut was noted in the Big Lime samples at 1,960'. Very good shows of gas were recorded in the Bayard (3,050'), Big Injun (2,090') & 3rd Sait (1,885'). Small shows of gas were recorded in the Gordon (2,845'), Gantz (2,590') & Weir (2,398').

C	4 4 7			~~	- C
FORM	MA.	шл	N	L	25

1 st Salt Sand	1634"	- 544
2 ^{rid} Salt Sand	1695	- 605
3 rd Salt Sand	1854'	764
Maxon Sandstone	1910'	= 820
Big Lime	1950'	- 860
Keener Sandstone	2016'	= 926
Big Injun Sandstone	2038	- 948
Weir Sandstone	2402"	-1312
Gantz Sandstone	2596'	-1506
Gordon Stray Sandstone	2782'	-1692
Gordon Sandstone	2825'	-1735
4 th Sand	2890'	-1800
5 th Sand	2970'	-1880
Bayard Sandstone	3045	-1955
•		

OCT 2 4 2016

STRUCTURAL COMPARISON:

Alliance Petroleum

Cucumbertree 1 V-1

Bia Lime Gordon Sandstone - 860 -1735 Alliance Petroleum Cottonwood 1 V-1

- 854 -1731

GEOLOGY

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 have fair to poor development and a substantial amount of 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, 5th & 4th Sandstones. The Bayard (3,045-3,058') shows good thickness (13') but only fair porosity (6%). The 5th (2,970-3,006') and 4th (2,890-2,954') were fairly thin with low porosity. However, some gas effect was noted on the neutron log and small gas shows were noted on the temperature log. Good gas shows were noted on the mud log in these zones. However, as mentioned above, I believe most of this gas was a delayed show from the Gordon. After fracturing and cleanup of the Bayard, 4th & 5th, I would recommend perforating the Gordon. Tubing could be run with a packer between the Gordon and 4th. The lower zones could be produced up the tubing and the Gordon could be produced through the annulus between the production casing and the tubing. This way, pressure and flow from each zone could be measured independently. Fluid production should not be a problem for any of these zones.

Future potential also exists in the Gantz, Weir, Big Injun, Big Lime and 3rd Salt. The Gantz, from 2,596 to 2,602', is thin, but has good porosity and good gas effect on the neutron log. A small show of gas (background of 20 units to a maximum of 59 units) was noted on the mud log. A zone of very good porosity was noted at the top of the Weir (2,402-2,408'). Good gas effect was noted on the neutron log and a small show of gas (background of 15 units to a maximum of 72 units) was indicated on the mud log. The Big Injun, Big Lime & 3rd Salt Sand are behind the 7rd casing. Therefore, we only have a gamma ray-neutron log for evaluation. A very good show of gas (background of 480 units to a maximum of 2,805 units) was recorded in the Big Injun at 2,090'. The neutron log indicates a thin zone from 2.087 to 2,090' with good gas effect. Below this, fluid saturations in the Big Injun rise, indicating a potential water zone just below the gas. An excellent fast milky oil cut was recorded on the mud log in the Big Lime at 1,960'. The neutron log shows high fluid porosity from 1,956 to 1,962'. Some oil production may be possible from this zone, but water saturations are unknown. A very good show of gas (background of 18 units to a maximum of 2,024 units) was recorded in the 3rd Salt Sand at 1,885'. The neutron log shows two zone of good gas effect from 1,879 to 1,883' and 1,841 to 1,848'. Some gas production may be possible from this zone. However, water saturations are unknown. Office of Oil 2 Gas

OCT 2 4 2016

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Respectfully submitted,

NATIONAL MINERALS CORPORATION By: Douglas L. Core, President

C. L. L. Core

April 19, 2016

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