

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

API 47 - 095 - 02345 County Tyler District Ellsworth
Quad _____ Pad Name _____ Field/Pool Name _____
Farm name James, William & Almeda Well Number Yurigan #2V-1 South
Operator (as registered with the OOG) Alliance Petroleum 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-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1039' GL Type of Well New Existing Type of Report Interim Final

Permit Type Deviated Horizontal Horizontal 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 Storage Other _____

Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____

Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine

Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
N/A

Date permit issued 3/8/16 Date drilling commenced 5/6/16 Date drilling ceased 5/12/16

Date completion activities began 5/18/16 Date completion activities ceased 5/26/16

Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 0-300' Open mine(s) (Y/N) depths N

Salt water depth(s) ft 1800' Void(s) encountered (Y/N) depths N

Coal depth(s) ft 682'-684' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

Reviewed by:

APPROVED

NAME: [Signature]

DATE: 12/6/16

02/03/2017

API 47-095 02345 Farm name James, William & Almeda Well number Yurigan #2V-1 South

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	15"	13-3/8"	32'	New	H-40 36#		Driven
Surface	12-1/4"	9-5/8"	320'	New	H-40 26#		Y
Coal							
Intermediate 1	8-3/4"	7"	2211'	New	J-55 17#		Y
Intermediate 2							
Intermediate 3							
Production	6-1/2"	4-1/2"	5789'	New	J-55 10.5#		N
Tubing		1-1/2"	5300'	Used	J-55 2.75#		N/A
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	None	Driven					
Surface	Class A	117					8 Hrs.
Coal							
Intermediate 1	Class A	307					8 Hrs.
Intermediate 2							
Intermediate 3							
Production	50/50 Poz.	133					N/A
Tubing							

Drillers TD (ft) 5841' Loggers TD (ft) 5852'

Deepest formation penetrated Rhinestreet Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

6 Total on 4-1/2" string - Every 100' off Bottom

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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National Minerals Corporation

ALLIANCE PETROLEUM CORPORATION

YURIGAN 2 V-1 SOUTH

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

Oil, Gas & Mineral
Exploration
OCT 24 2016

*Oil, Gas & Mineral
Exploration*

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WELL: Alliance Petroleum Corporation 2 V-1 South Yurigan

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02345.

ELEVATION: 1039' Ground 1049'KB.

STATUS: Preparing to complete as a gas producer.

CASING: 7" @ 2222'.

TOTAL DEPTH: 5841' Driller 5852' Logger.

CONTRACTOR: Nexus Drilling Co.

TOOLS: Rotary.

COMPLETED DRILLING: 5/12/2016.

FORMATION AT TOTAL DEPTH: Devonian shale.

ELECTRICAL SURVEYS: Gamma Ray-Compensated Density-Neutron-Caliper-Induction by Appalachian Well Surveys.

SHOWS: Fair shows of gas were noted in the Alexander, Benson, Bayard & 3rd Salt Sand. Small shows of gas were noted on the mud log in the Riley, Bradford, Balltown, Speechley, Warren, Gantz & Gordon.

FORMATION TOPS:	1 st Salt Sand	1520'	- 471
	2 nd Salt Sand	1608'	- 559
	3 rd Salt Sand	1781'	- 732
	Maxon Sandstone	1866'	- 817
	Big Lime	1913'	- 864
	Keener Sandstone	1960'	- 911
	Big Injun Sandstone	1976'	- 927
	Weir Sandstone	2302'	-1253
	Gantz Sandstone	2554'	-1505
	Thirty-foot Sandstone	2650'	-1601
	Gordon Stray Sandstone	2740'	-1691
	Gordon Sandstone	2782'	-1733
	4 th Sand	2842'	-1793
	5 th Sand	2900'	-1851
	Bayard Sandstone	2998'	-1949
	Warren Sandstone	3481'	-2432
	Speechley Sandstone	3645'	-2596

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Balltown Sandstone	3906'	-2857
Bradford Sandstone	4260'	-3211
Riley Sandstone	4669'	-3620
Benson Sandstone	5112'	-4063
Alexander Sandstone	5334'	-4285
Rhinestreet Shale	5454'	-4405

STRUCTURAL COMPARISON:

	Alliance Petroleum Yurigan 2 V-1 South	Alliance Petroleum Parr 1V North
Big Lime	- 864	- 854
Gordon Sandstone	-1733	-1726
Warren Sandstone	-2432	-2426
Benson Sandstone	-4063	-4058

GEOLOGY:

I would first recommend completion of the Alexander & Benson Sandstones. The Rhinestreet Shale recorded some small gas shows on the mud log, but did not have the porosity development seen in the Parr 1 V North. The Alexander (5334 to 5394') is not as well developed as in the Parr 1 V North. It has fair to poor porosities and low water saturations. The mud log recorded a fair show of gas (background of 150 units to a maximum of 433 units) in this zone. The Benson development (5112 to 5118') is also poorer than seen in the Parr 1 V North, with fair porosities and low water saturations. A fair show of gas (background of 180 units to a maximum of 385 units) was also noted in this zone.

If a second stage is needed, I would recommend the Riley (4669 to 4698'), Bradford (4398 to 4429') and Warren (3481 to 3567'). The Riley, which is not as well developed as in the Parr 1 V North, has fair to poor porosities and low water saturations. The mud log indicated a small show of gas (background of 250 units to a maximum of 379 units). The Bradford has fair to poor porosities and low water saturations. The mud log indicated small shows of gas in this zone (background of 260 units to a maximum of 384 units). The Warren has fair to good porosities and low water saturations. The mud log indicated small shows of gas in this zone (background of 300 units to a maximum of 364 units).

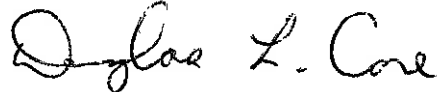
After depletion of the lower zones, additional production may be obtained from the Bayard, Gordon, Gantz, Weir & 3rd Salt Sand. The Bayard, 2998 to 3012', has good porosities and low water saturations. The mud log indicated a fair show of gas in this zone. The Gordon, 2782 to 2813', has excellent porosity and excellent gas effect on the neutron log. The mud log indicated a small show of gas in this zone. Connection gas increased dramatically after this zone was drilled, indicating severe pressure depletion. The Gantz, 2554 to 2572', has

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good to very good porosities and low water saturations. However, only a small show of gas was noted on the mud log. This zone may also be severely depleted. The Weir, 2302 to 2428', has fair to good porosities and low to moderate water saturations. Several small shows of gas were noted on the mud log. A fair show of gas (background of 10 units to a maximum of 286 units) was noted in the 3rd Salt Sand at 1810'. Since this is behind the 7" casing, the only logs we have are the gamma ray and neutron. Based upon these logs, there appears to be a zone with high gas saturations from 1814 to 1833'. No porosity or water saturation data are available.

Respectfully submitted,



NATIONAL MINERALS CORPORATION
By: Douglas L. Core, President

May 17, 2016

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