

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

API 47-~~85095~~ 02340 County Tyler District Ellsworth
Quad _____ Pad Name _____ Field/Pool Name _____
Farm name Holloway, Harold & DE Well Number Pignut Hickory 1V-1
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) 1176' 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)
KCL - Clay Stay - Surfactant/Soap

Date permit issued 1-29-16 Date drilling commenced 4/18/16 Date drilling ceased 4/27/16
Date completion activities began 6/20/16 Date completion activities ceased 6/27/16
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

Freshwater depth(s) ft 0-300' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1985' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 810'-812' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
NAME: Justin Snyder
DATE: 11/25/17
Received
OCT 24 2016

Reviewed by: _____

02/03/2017

GRAPHIC SCALE
0 200 400
1" = 400'

NAD83 GEO (NO MARS SUT) M: 39 28' 45" W: 80 50' 04"
NAD83 DECIMAL DEGREES N: 39.4853 W: 80.8346
NAD83 UTM: M: ZONE 17 NORTH N: 437,820.4 E: 316215.7
NAD83 S.P.C. 44V NORTH ZONE- UTM: N: 315678.25 E: 162187.95

LOCATION REFERENCES
S 54° 47' 22" E 131.87' 24" OAK TREE
S 85° 30' 01" E 187.38' 22" OAK TREE

LEGEND
● FOUND IRON PIN OR PIPE
● WELL NO PIGNUT HICKORY 1 V-1 (THIS SURVEY)
○ EXISTING OIL & GAS WELL
○ EXISTING WATER WELL
- - - LEASE LINE
- - - SURFACE LINE

LATITUDE 36 30'00" 39.5'

LONGITUDE 40 42'00" 49.5'

**WELL NO
PIGNUT HICKORY 1 V-1**

NOTES ON SURVEY

- PREPARED BY
BLAINE SURVEYING PLLC
9100 REDMOND RIDGE ROAD
GALLIPOLIS FERRY, WV 25515
- LEASE BOUNDARY SHOWN HEREON TAKEN FROM
DEED BOOK 287 PAGE 665
- THIS IS NOT A BOUNDARY SURVEY. SURFACE
OWNER AND ADDRESS INFORMATION TAKEN FROM
THE ASSESSOR AND COUNTY CLERK RECORDS OF
TYLER COUNTY IN NOVEMBER 2015.

OPERATORS WELL NO: PIGNUT HICKORY 1 V-1
SCALE: 1" = 400'
MINIMUM DEGREE
OF ACCURACY: SUB-METER
PROVEN SOURCE
OF ELEVATION: CORS NETWORK & WV VRS

(N) DENOTES LOCATION OF WELL ON
UNITED STATES TOPOGRAPHIC MAPS

47	095	1234
API WELL NO	STATE	COUNTY PERMIT

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS
PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE
AND BELIEF AND SHOWS ALL THE INFORMATION
REQUIRED BY LAW AND THE REGULATIONS ISSUED
AND PRESCRIBED BY THE DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Signed: *Jonathan Blaine*

LLS: *2220 DATE: 12/22/15

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
OFFICE OF OIL AND GAS
601 57TH ST
CHARLESTON, WV 25304

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP
 GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: OUTLET MIDDLE ISLAND CREEK ELEVATION: 1175'

DISTRICT: ELLSWORTH COUNTY: TYLER QUADRANGLE: SHIRLEY 7.5

SURFACE OWNER: HOLLAWAY, HAROLD J JR & DEBORAH C ACREAGE: 22.95 +/-

OIL & GAS ROYALTY OWNER: BOUNTY MINERALS, LLC ET AL ACREAGE: 22.95 +/-

DRILL: CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: RHINESTREET ESTIMATED DEPTH: TVD 5910'

WELL OPERATOR: ALLIANCE PETROLEUM CORPORATION DESIGNATED AGENT: JEFFREY SAYGER
 ADDRESS: 4150 BELDEN VILLAGE AVE NW SUITE 410 ADDRESS: 16 FOX HILL TERRACE
CANTON OH 44718-2553 PARKERSBURG WV 26101

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WR-35
Rev. 8/23/13

API 47-045 02340 Farm name Holloway, Harold & DE Well number Pignut Hickory 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 ^o
Conductor	15"	13-3/8"	32'	New	H-40 36#	N/A	N/A Driven
Surface	12-1/4"	9-5/8"	426'	New	H-40 26#		Yes
Coal							
Intermediate 1	8-3/4"	7"	2371'		J-55 17#		Yes
Intermediate 2							
Intermediate 3							
Production	6-1/2"	4-1/2"	5960'	New	J-55 10.5#	6	No
Tubing		1-1/2"	5450'	used	J-55 7.75#	N/A	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						
Surface	Class A	131				CTS	8 Hrs.
Coal							
Intermediate 1	Class A	121				CTS	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	50/50 Doz	138				3400'	
Tubing							

Drillers TD (ft) 5989' Loggers TD (ft) 6000'

Deepest formation penetrated Rhinestreet Plug back to (ft) N/A

Plug back procedure _____

Kick off depth (ft) N/A

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 production casing - 4-1/2" every 100' off bottom

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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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

PIGNUT HICKORY 1 V-1

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

Received
Office of Oil & Gas
OCT 24 2016



WELL: Alliance Petroleum Corporation 1 V-1 Pignut Hickory

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02340.

ELEVATION: 1176' Ground 1186'KB.

STATUS: Preparing to complete as a gas producer.

CASING: 7" @ 2365'.

TOTAL DEPTH: 5989' Driller 6000' Logger.

CONTRACTOR: Nexus Drilling Co.

TOOLS: Rotary.

COMPLETED DRILLING: 4/27/2016.

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. Additional shows of gas were noted on the mud log in the Rhinestreet, Riley, Warren, Bayard, Gordon Stray, Weir and Big Injun.

FORMATION TOPS:	1 st Salt Sand	1617'	- 431
	2 nd Salt Sand	1836'	- 650
	3 rd Salt Sand	1985'	- 799
	Maxon Sandstone	2018'	- 832
	Big Lime	2064'	- 878
	Keener Sandstone	2130'	- 944
	Big Injun Sandstone	2154'	- 968
	Weir Sandstone	2465'	-1279
	Gantz Sandstone	2711'	-1525
	Thirty-foot Sandstone	2806'	-1620
	Gordon Stray Sandstone	2901'	-1715
	Gordon Sandstone	2944'	-1758
	4 th Sand	3006'	-1820
	5 th Sand	3066'	-1880
	Bayard Sandstone	3147'	-1961
	Warren Sandstone	3629'	-2443
	Speechley Sandstone	3886'	-2700

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Balltown Sandstone	4090'	-2904
Bradford Sandstone	4377'	-3191
Riley Sandstone	4818'	-3632
Benson Sandstone	5238'	-4052
Alexander Sandstone	5467'	-4281
Rhinestreet Shale	5600'	-4414

STRUCTURAL COMPARISON:

	Alliance Petroleum Pignut Hickory 1 V-1	Alliance Petroleum Parr 1V North
Big Lime	- 878	- 854
Gordon Sandstone	-1758	-1726
Warren Sandstone	-2443	-2426
Benson Sandstone	-4052	-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 (5472 to 5480') is better developed in this well, compared with the Parr 1 V North. It has fair to good porosities and low water saturations. The mud log recorded a small show of gas in this zone and a fair show of gas (background of 10 units to a maximum of 214 units) just above the Alexander at 5455'. The Benson development (5238 to 5246') is very similar to that seen in the Parr 1 V North, with fair to good porosities and low water saturations. A fair show of gas (background of 13 units to a maximum of 338 units) was noted in this zone.

If a second stage is needed, I would recommend the Riley (4818 to 4840'), Balltown (4035 to 4116') and the Warren (3657 to 3732'). 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 30 units to a maximum of 114 units). The Balltown has fair porosities and low water saturations. The mud log indicated small shows of gas in this zone (background of 20 units to a maximum of 110 units). The Warren has fair porosities and low water saturations. The mud log indicated small shows of gas in this zone (background of 13 units to a maximum of 127 units).

After depletion of the lower zones, addition production may be obtained from the Bayard, Gordon Stray, Weir & Big Injun. The Bayard, 3148 to 3161', has fair porosities and low water saturations. The mud log indicated a small show of gas in this zone. The Gordon Stray, 2908 to 2912', is very thin with fair porosity and good gas effect on the neutron log. The mud log indicated a small show of gas in this zone. The Weir from 2522 to 2611' has fair to good

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porosities. However, the water saturations in the upper portion are very high. A small show of gas was noted in the lower portion 2572 to 2580', which has much lower water saturations. A fair show of gas was noted in the Big Injun Sandstone at 2210'. 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 2208 to 2219'. Ten feet below this zone the fluid saturations rise dramatically, indicating potential water in close proximity to this zone. Any treatment, other than perforating in acid, would not be recommended for this interval.

Respectfully submitted,



NATIONAL MINERALS CORPORATION
By: Douglas L. Core, President

April 28, 2016

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OCT 24 2016

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