

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

API 47-095-02319 County Tyler District Ellsworth  
Quad Porters Falls Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name Oiler, Elaine Well Number Pitch Pine 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) 1235' 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)  
Soap- Clay Stay - KCL \*Air Drilled

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Date permit issued 11/19/2015 Date drilling commenced 03-01-16 Date drilling ceased 03-06-16  
Date completion activities began 3-9-16 Date completion activities ceased 3-17-16  
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

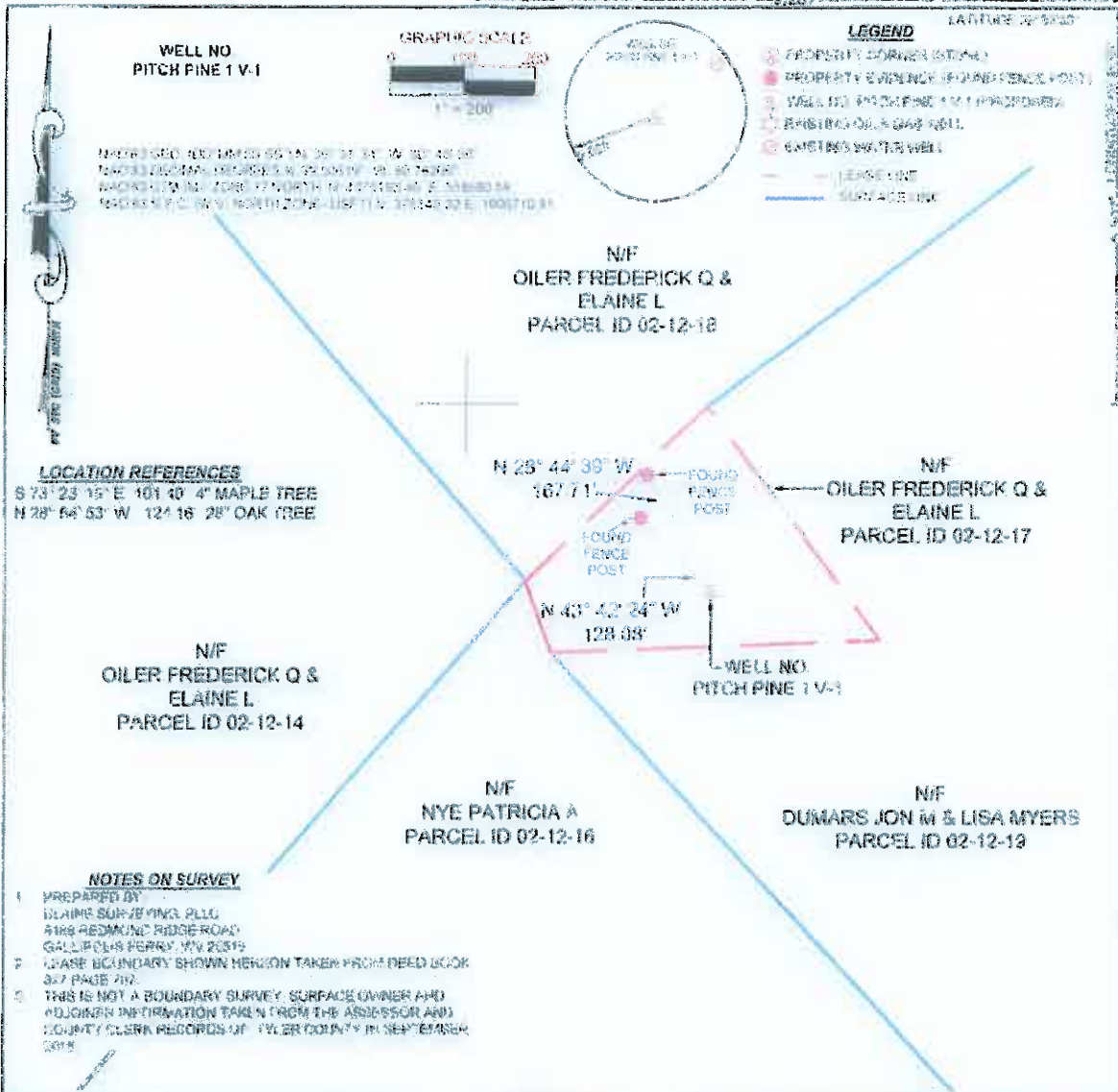
Freshwater depth(s) ft 0-300' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1412' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 900-904 pits Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

NAME: \_\_\_\_\_  
DATE: 9/28/16

Reviewed by:

10/28/2016



**WELL NO**  
PITCH PINE 1 V-1



- LEGEND**
- PROPERTY CORNER (STONE)
  - PROPERTY CORNER (FLANGE/FENCE POST)
  - WELL (10' RADIUS) 10' 1" PROPOSED
  - EXISTING OIL & GAS WELL
  - EXISTING WATER WELL
  - LEASE LOT
  - SURFACE LINE

**LOCATION REFERENCES**  
S 73° 23' 15" E 101.40' 4" MAPLE TREE  
N 28° 54' 53" W 124.16' 28" OAK TREE

- NOTES ON SURVEY**
1. PREPARED BY  
ELAINE SURVIVING, PLLC  
4188 REDMUND RIDGE ROAD  
GALLIPOLIS PERRY, WV 25719
  2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK  
267 PAGE 719.
  3. THIS IS NOT A BOUNDARY SURVEY. SURFACE OWNER AND  
ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND  
COUNTY CLERK RECORDS OF TYLER COUNTY IN SEPTEMBER  
2015.

**MINIMUM DEGREE OF ACCURACY** FILE # PITCH PINE 1 V-1  
**SUB-METER** SCALE 1" = 200'

**HORIZONTAL AND VERTICAL CONTROL DETERMINED BY**  
DGPS (MAPPING GRADE TIE TO CORS NETWORK)



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

Signed: \_\_\_\_\_  
L.L.S.: # \_\_\_\_\_ DATE: 10/28/16

(+) DENOTES LOCATION OF WELL ON  
UNITED STATES TOPOGRAPHIC MAPS  
DATE: MARCH 31, 2014  
REVISED: 2014  
OPERATORS WELL NO. PITCH PINE 1 V-1

APN: \_\_\_\_\_  
WELL NO.: 47 095  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

WELL TYPE	OIL	GAS	<input checked="" type="checkbox"/>	LIGUID INJECTION	<input type="checkbox"/>	WASTE DISPOSAL	<input type="checkbox"/>	IF "GAS" PRODUCTION	<input checked="" type="checkbox"/>	STORAGE	DEEP	<input type="checkbox"/>	SHALLOW	<input checked="" type="checkbox"/>
LOCATION	ELEVATION: 1,235 WATERSHED: OUTLET MIDDLE ISLAND CREEK													
	DISTRICT: ELLSWORTH COUNTY: TYLER QUADRANGLE: PORTERS FALLS (A)													
SURFACE OWNER	OILER ELAINE L													
ROYALTY OWNER	OILER ELAINE L													
PROPOSED WORK	LEASE NO. 4117													
DRILL	<input checked="" type="checkbox"/>	CONVERT	<input type="checkbox"/>	DRILL DEEPER	<input type="checkbox"/>	REDRILL	<input type="checkbox"/>	RACTURE OR STIMULATE	<input checked="" type="checkbox"/>	PLUG OFF OLD	<input type="checkbox"/>			
FORMATION	PERFORATE NEW FORMATION <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/> OTHER <input type="checkbox"/>													
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION: RHINE STREET ESTIMATED DEPTH: 8,630													
WELL OPERATOR	ALLIANCE PETROLEUM CORPORATION						DESIGNATED AGENT: JEFFREY SAYGER							
ADDRESS	4150 BELDEN VILLAGE AVE NW SUITE 410 CANTON, OH 44718-2553						ADDRESS: 16 FOX HILL TERRACE PARKERSBURG, WV 26101							

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10/28/2016

API 47-095 - 02319

Farm name Oiler, Elaine

Well number Pitch Pine 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"	32.40	new	H-40 36#	N/A	Driven in place
Surface	12-3/8"	9-5/8"	378'	new	H-40 26#		yes
Coal							
Intermediate 1	8/34"	7"	2020'				yes - 4bbl. of returns
Intermediate 2							
Intermediate 3							
Production	6-1/2"	4-1/2"	3100'	new	10.5# ft. J-55	6	no
Tubing		1-1/2"	2740'	used	4.7#/ft. J-55		N/A
Packer type and depth set	none						

Comment Details Cement top on 4-1/2" @ 2180'

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	N/A						
Surface	Class A	139				CTS	8hrs.
Coal							
Intermediate 1	Class A	293				CTS	8hrs.
Intermediate 2							
Intermediate 3							
Production	50/50 poz	220				2180'	
Tubing							

Drillers TD (ft) 3160'      Loggers TD (ft) 3162'  
 Deepest formation penetrated 4th Sand      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 \_\_\_\_\_  
4-1/2" - 6 total raw every 100' aft. 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 Claytek Road  
Newark, Ohio 43056-9146  
Office 740-763-2758  
Home 740-763-2758  
Mobile 330-763-0479

# National Minerals Corporation

ALLIANCE PETROLEUM CORPORATION

PITCH PINE 1 V-1

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

*Oil, Gas & Mineral  
Exploration*

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WELL: Alliance Petroleum Corporation 1 V-1 Pitch Pine

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02319.

ELEVATION: 1235' Ground, 1245' KB

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

CASING: 7" @ 2042'.

TOTAL DEPTH: 3160' Driller 3162' Logger.

CONTRACTOR: Nexus Drilling Co.

TOOLS: Rotary.

COMPLETED DRILLING: 3/6/2016.

FORMATION AT TOTAL DEPTH: Devonian shale.

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

SHOWS: Excellent oil fluorescence and cut were noted in the Gantz samples at 2770'. Some free oil was unloaded to the pit after connection. An excellent show of gas was recorded in the Big Injun Sandstone (background of 50 units to a maximum of 2332 units @ 2277'). Abundant fluorescence and excellent oil cut were noted in the samples. An excellent show of gas was recorded in the 3<sup>rd</sup> Salt Sand ( background of 22 units to a maximum of 3736 units @ 1882'). Scattered fluorescence and a slow faint cut were noted in these samples.

FORMATION TOPS:	1 <sup>st</sup> Salt Sand	1646'	- 401
	2 <sup>nd</sup> Salt Sand	1756'	- 511
	3 <sup>rd</sup> Salt Sand	1860'	- 615
	Maxon Sandstone	2060'	- 815
	Big Lime	2103'	- 858
	Keener Sandstone	2168'	- 923
	Big Injun Sandstone	2216'	- 971
	Weir Sandstone	2572'	- 1327
	Gantz Sandstone	2769'	- 1525
	Gordon Stray Sandstone	2957'	- 1712
	Gordon Sandstone	3004'	- 1759
	4 <sup>th</sup> Sand	3071'	- 1826

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## STRUCTURAL COMPARISON:

	Alliance Petroleum Kleeh 2V South	Alliance Petroleum Kleeh 2V South
Big Lime	- 858	- 891
Gordon Sandstone	-1759	-1800

## GEOLOGY

This well lies approximately 4,000' southeast of the Kleeh 2V South well and we were anticipating a similar Gordon Stray section. However, the Gordon Stray is very poorly developed at this location. The Gordon showed excellent development but appears to be severely depleted.

Therefore, I would first recommend completion of the Gantz Sandstone. Upper and lower sections, as seen in the Kleeh 2V South & Harris 4V South, were noted in this well. However, the lower section (2,786-2,789') was poorly developed. The upper section from 2,768 to 2,774' has good to very good porosity and low water saturations. The samples exhibited excellent oil fluorescence and cut, and free oil was unloaded to the pit during the connection after drilling this zone. Because of the low water saturations, this zone could be fractured without the worry of water production.

An excellent show of gas, along with abundant fluorescence and excellent cut, was noted in the Big Injun at 2,277'. The gas went from a background of 50 units to a maximum of 2,332 units. Log analysis indicates 12' of hydrocarbon bearing sandstone with 26' of water bearing sandstone immediately below. The electric logs look very similar to the Yurigan 1V, but there is a large difference in the mud logs. In the Yurigan 1V the largest gas show was 102 units compared to 2,332 units in this well. In addition, no fluorescence or oil cut were noted in the Big Injun samples from the Yurigan 1V. The Yurigan 1V appears to have been severely depleted in the Big Injun, while this well maintained 2,000 units of gas to TD. In completing this zone, I would recommend perforations at the very top of the unit, from 2,266 to 2,272'. The only treatment, if needed, should be a small acid job at low pressure to clean up the perforations.

An excellent show of gas (background of 22 units to a maximum of 3,736 units) was noted in the 3<sup>rd</sup> Salt Sand. This zone is behind the 7" casing, so only a gamma ray-neutron log was available for analysis. The logs indicate high gas saturations from 1,866 to 1,889', with higher fluid saturations below that point. No fluorescence was noted below 1,880', so the fluid is probably water. It appears that this zone is not severely depleted, since the gas show continued at 3,100 units to the bottom of the 8 3/4" hole at 2,082'. It completing this zone, I would perforate the section with the highest gas saturation, from 1,876' and 1,882 to 1,886'. Again, the only treatment, if needed, should be a small acid job at low pressure to clean up the perforations.

Oil, Gas  
and Gas  
4/6/12/2016  
U.S. Department of  
Environmental Protection

10/28/2016



Respectfully submitted,



NATIONAL MINERALS CORPORATION  
By: Douglas L. Core, President

March 8, 2016

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