



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Tuesday, October 31, 2017  
WELL WORK PERMIT  
Vertical / Plugging

ALLIANCE PETROLEUM CORPORATION  
4150 BELDEN VILLAGE AVENUE NW, SUITE 410

CANTON, OH 447182553

Re: Permit approval for 3AJ WVGO1059  
47-041-01097-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

  
James A. Martin  
Chief

Operator's Well Number: 3AJ WVGO1059  
Farm Name: GOULD, A. J.  
U.S. WELL NUMBER: 47-041-01097-00-00  
Vertical / Plugging  
Date Issued: 10/31/2017

Promoting a healthy environment.

11/03/2017

# I

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

4704101097P

WW-4B  
Rev. 2/01

1) Date August 29, 20 17  
2) Operator's  
Well No. A.J. Gould #3  
3) API Well No. 47-041 - 01097

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

OK#  
0068016  
\$100.00

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1147' Watershed Hackers Creek  
District Hackers Creek County Lewis Quadrangle Berlin

6) Well Operator Alliance Petroleum Corporation 7) Designated Agent Dora Silvis  
Address 4150 Belden Village Ave. NW, Suite 410 Address 4150 Belden Village Ave. NW, Suite 410  
Canton, OH 44718-2553 Canton, OH 44718-2553

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Barry Stollings Name Taylor Trucking and Dozer Service  
Address 28 Conifer Drive Address 7147 Hackers Creek Road  
Bridgeport, WV 26330 Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
Use contract service rig, RIH <sup>CHECK TD. ESTIMATE FRESHMIST 9 AM</sup> w/ 2 3/8" tubing, spot gel & PLUG Bottom hole plug from 4427' - 4227'.  
100' API class A cement plug on bottom 4427' to 4327', and from 4327' to 4227' over perfs  
Perforations are 4376' to 4390' Benson. WOC, Fill from 4227' to 3000' with 6% gel  
Spot 100' cement plug over casing cut 3000' to 2900', WOC, fill with 6% gel 2900' to  
Salt water stratum, elevation 1147', spot 100' cement plug 1147'-1047', spot  
100' expandable cement 1047'-947' WOC, Surface casing shoe 1050', Fill 6% gel  
947'-100', Spot 100' cement plug at surface, Install 30" monument, Complete reclamation  
100' plug over coal 777'-779' 2' seam B.S.  
Pull 10" casing if possible 9-26-17

SEE ADDITIONAL WW-4B WORK ORDER FOR CLARIFICATION.

JRM

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Notification must be given to the district oil and gas inspector 24 hours before work can commence.

WV Department of  
Environmental Protection

Work order approved by inspector Barry Stollings Date 9-26-17

11/03/2017

Operator: Alliance Petroleum Corporation

WW-4B 10) Work Order

1. Use contract service rig. TIH to TD with 2 3/8" work string. Spot gel. Set Class A bottom hole plug from 4427' to 4227' (above perforations). Perforations are from 4376' to 4390' (Benson).
2. TOOH or Trip up to 4000' and WOC. Tag plug. Add Class A cement if necessary.
3. Cut 4 1/2" casing at freepoint, approximately 3850'. TOOH with 4 1/2" casing.
4. TIH with work string and add gel to 3850' and set a 100' Class A cement plug over cut to 3750'.
5. Gel hole to 2445' (Gas Show) and set 100' Class A cement plug from 2445' to 2345'.
6. Add gel to elevation (1147'). Set 200' Class A cement plug from 1147' to 947'.
7. Freepoint, cut and pooh with 8 1/4" casing. If unable to pull casing with a force 150% greater than the weight of the casing, then perforate casing so you may cover all oil and gas shows, coal and water zones by filling the casing with Class A cement.
8. If casing was cut and pulled out of hole (POOH), then set a 100' Class A cement plug across casing cut.
9. Add gel if needed and set a 100' Class A cement plug from 800' to 700' across the coal (777'-779').
10. Add gel to bottom of 10" casing and try to pull 10" out of hole. If unable to pull then set a Class A Cement plug from 285' to 175'.
11. Gel to 100' and set a 100 Class A Cement plug to surface.
12. Install a minimum of 6" diameter casing extending 10' below grade to 30" above filled with concrete. Reclaim as necessary.

All cement plugs must be a minimum of 100' Class A cement with no more than 3 % CaCl<sub>2</sub> and no other additives.

All other wellbore volumes must be filled with gel. Our definition of gel is fresh water with at least 6% bentonite, by weight.

JN m  
10/31/2017

11/03/2017



4704101097P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Weston 1, E1

Permit No. JF 1037

WELL RECORD

Oil or Gas Well Gas

Company <u>Union Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Box 211 Washington, Pa.</u>				
Farm <u>A.J. Gould</u> Acres	Size			Kind of Packer
Location (waters) <u>Laurellick</u>	16			
Well No. <u>520</u> Elev. <u>1167'</u>	13			
District <u>Skin Creek</u> County <u>Lewis</u>	10	<u>235</u>	<u>235</u>	Size of
The surface of tract is owned in fee by <u>A.J. Gould</u> Address <u>Berlin, W. Va.</u>	8 1/2	<u>1050</u>	<u>1050</u>	Depth set
Mineral rights are owned by <u>S-RO</u> Address	6 3/4	<u>427</u>	<u>427</u>	
Drilling commenced <u>11/27/62</u>	3			Perf. top
Drilling completed <u>3/5/63</u>	2			Perf. bottom
Date Shot From To	Liners Used			Perf. top
With				Perf. bottom
Open Flow <u>6 1/10ths</u> Water in <u>5/1</u> Inch				
/10ths Merc. in Inch				
Volume Cu. Ft.				
Rock Pressure lbs. hrs.				
Oil bbls., 1st 24 hrs.				

CASING CEMENTED 4 1/2" SIZE 100 No. Ft. 2/1/63 Date

COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

WELL FRACTURED 3/13/63 37,300 Gallons Water with 55,000 20-40 sand  
1,100,000  
RESULT AFTER TREATMENT  
ROCK PRESSURE AFTER TREATMENT 1300 @ 43 hrs.  
Fresh Water 13' Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	10			
Gravel			10	13			
Slate			13	133			
lime			103	137			
Red rock			137	205	Water 13'		
Slate			205	243			
lime			243	355			
Red rock			355	370			
Slate			370	555			
lime			555	754			
Sand			754	777			
Coal			777	777			
Slate & shell			779	160			
Sand			160	200			
Slate & shell			200	1050			
lime			1050	1140			
Sand			1140	1335			
Red rock			1335	1515			
Slate & shell			1515	1635			
Sand			1635	1635			
alg. lime			1635	1713			
Sand			1713	1830			
Slate & shell			1830	1930			
Sand			1930	2025			
Slate & shell			2025	2277			
Sand			2277	2304			
Slate & shell			2304	2440			
Sand			2440	2460			
Slate & shell			2460	2637			
lime			2637	4373			

★ IT APPEARS 4 1/2" CASING MAY HAVE BEEN CEMENTED FROM 4427' TO 4027' (400').

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Benson Sand Slate & shell Lino			4373	4393			
			4393	4403			
			4403	4427			
			4427				

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Date \_\_\_\_\_, 19\_\_\_\_

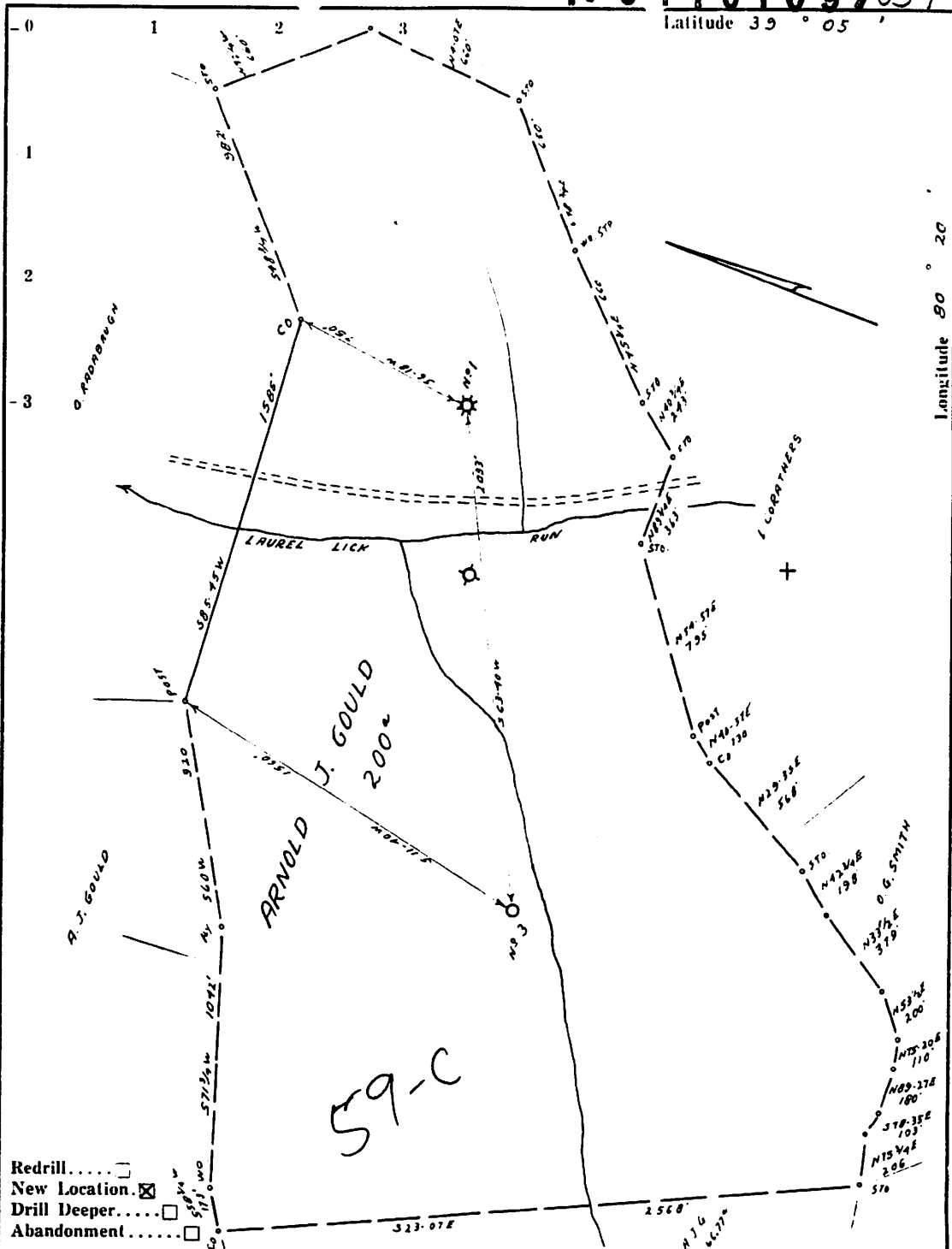
APPROVED \_\_\_\_\_, Owner

By \_\_\_\_\_  
(Title)

11/03/2017



4704101097<sup>P</sup>059



- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Company UNION DRILLING INC.  
 Address WASHINGTON, PA.  
 Farm ARNOLD J. GOULD  
 Tract \_\_\_\_\_ Acres 200 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. 3  
 Elevation (Spirit Level) 1147' VA.  
 Quadrangle WESTON SE3<sup>1</sup>  
 County LEWIS District HACKERS CK.  
 Engineer [Signature]  
 Engineer's Registration No. 1081  
 File No. 204/58 Drawing No. \_\_\_\_\_  
 Date 10-30-62 Scale 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**

FILE NO. \_\_\_\_\_

— Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

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R.D.M.S.

1059

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4704101097P

WW-4A  
Revised 6-07

1) Date: August 29, 2017  
2) Operator's Well Number  
A.J. Gould #3  
3) API Well No.: 47 - 041 - 01097

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served: (a) Name Brenda L. Gould et al, Address 4594 Kingwood Pike, Reedsville, WV 26457, (b) Name Helen Sue Henderson and James William Henderson, Address 5050 Hackers Creek Road, Weston, WV 26452, (c) Name, Address, 6) Inspector Barry Stollings, Address 28 Conifer Drive, Bridgeport, WV 26330, Telephone 304-552-4194, 5) (a) Coal Operator Name, Address, (b) Coal Owner(s) with Declaration Name Forest H. Lynch et al, Address 244 Fairview Av., Beckley, WV 25801-13304, (c) Coal Lessee with Declaration Name, Address

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Alliance Petroleum Corporation  
By: David Dean  
Its: VP Production  
Address 4150 Belden Village Ave. NW, Suite 410  
Canton, OH 44718-2553  
Telephone 304-614-2963

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WV Department of Environmental Protection

Subscribed and sworn before me this 22nd day of September 2017  
Hartsel E. McCauley Notary Public  
My Commission Expires November 12, 2019

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

11/03/2017

WW-9  
(5/16)

API Number 47 - 041 - 01097  
Operator's Well No. A.J. Coult#3

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Alliance Petroleum Corporation OP Code 494506333

Watershed (HUC 10) Hackers Creek Quadrangle Berlin

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: 198 bbls

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 ml. *g/m*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. No drilling anticipated

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement

-Landfill or offsite name/permit number? PENNECO UIC# 2D0930301

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature David Dean

Company Official (Typed Name) David Dean

Company Official Title Vice President Production

Subscribed and sworn before me this 22nd day of September, 20 17

Hartsel E. McCauley

Notary Public

My commission expires November 12, 2019



Operator's Well No. A.J. Gould #3

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	12	Orchard Grass	12
Birdsfoot Trefoil	10	Birdsfoot Trefoil	10
Domestic Rye	10	Domestic Rye	10

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bany Shillings

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: inspector Date: 9-26-17

Field Reviewed? (  ) Yes (  ) No

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

Operator Name: Alliance Petroleum CorporationWatershed (HUC 10): Hackers CreekQuad: BerlinFarm Name: A.J. Gould #3

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

A contract service will be used to treat fluids in the pit to obtain the proper PH 6.5. Rig and pumping equipment will be used to cut and remove casing, pumping cement and gel, mixing of water, cement, and gel in above ground tanks.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All equipment will be inside of a controlled drainage to a constructed lined pit. Silt fences will be installed preventing any silt from entering the Laurel Lick drainage area from storm water.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

The closest water body is Laurel Lick. The distance to Laurel Lick is 75'.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

The non producing gas well has fresh water casing cemented to surface protecting fresh water stratum. A 100 bbl tank is on site with secondary containment. Activities at the site are limited because of non productivity.

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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Laurel Lick drainage area is nearby the well site. Extra precaution will be noted to eliminate any contaminates from entering the drainage area.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Silt fences will be installed around the work area. A pit will be constructed and a ditch from the well head to divert and contain any fluid from the work area.

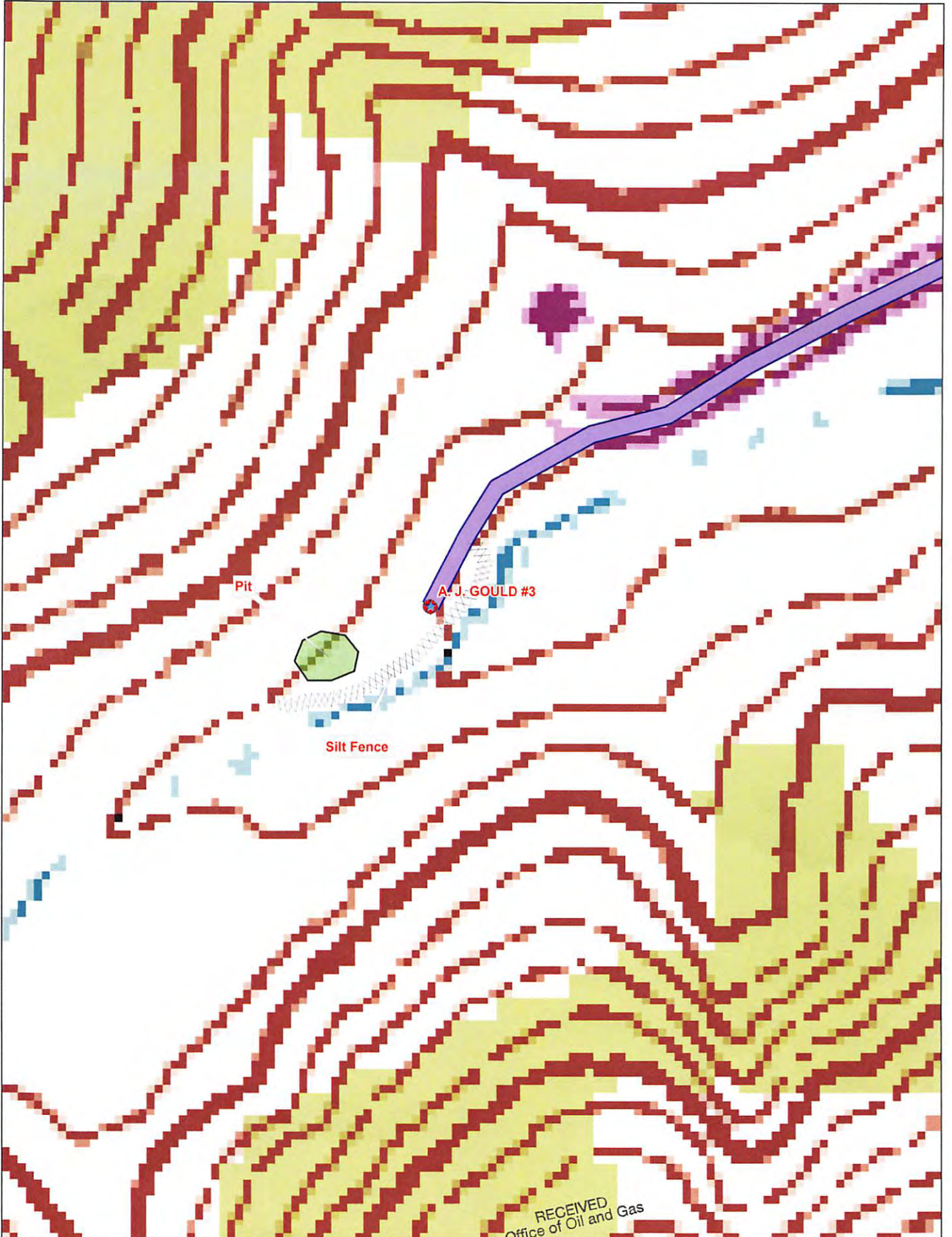
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

A job safety analysis will be completed each day on the job site to discuss the procedures, safety, and inspection of all GPP elements and equipment.

Signature: David Dean

Date: 9/22/2017

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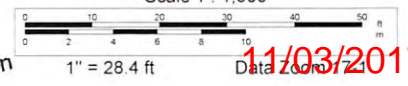


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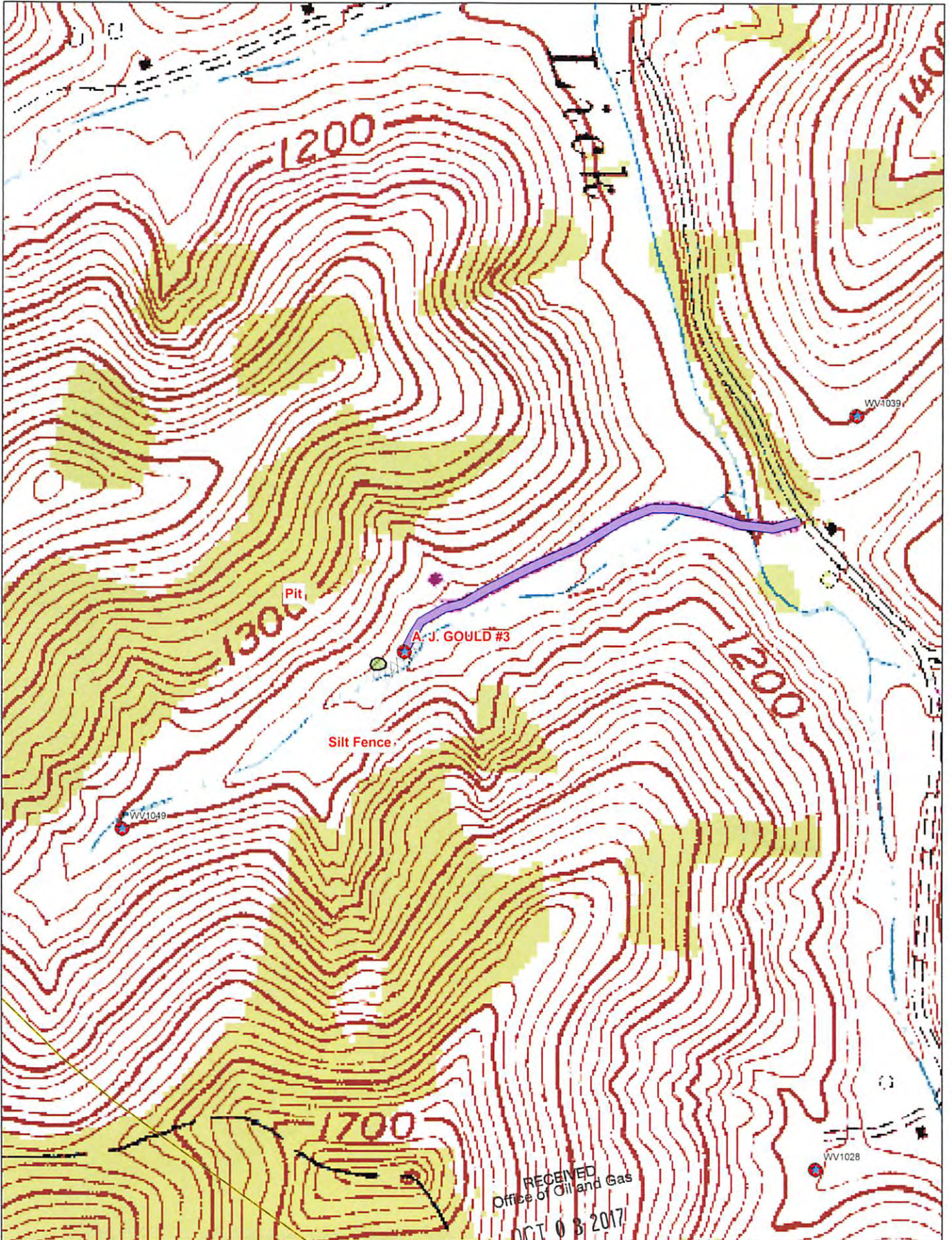
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 MN (8.9°W)

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Scale 1 : 1,500



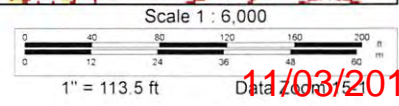
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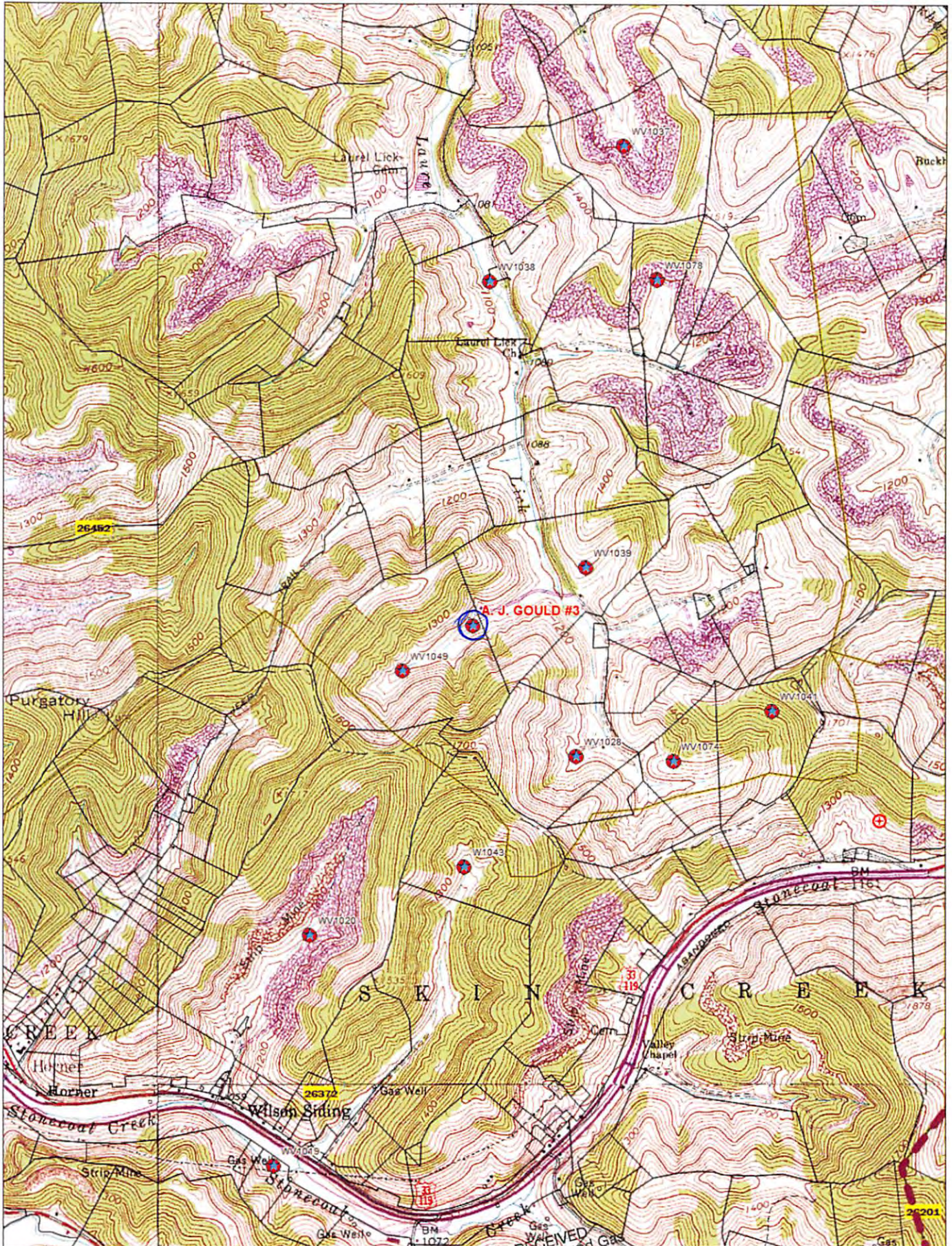
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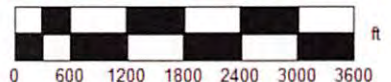


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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-041-01097 WELL NO.: 3

FARM NAME: A.J. Gould

RESPONSIBLE PARTY NAME: Alliance Petroleum Corporation

COUNTY: Lewis DISTRICT: Hackers Creek

QUADRANGLE: Berlin

SURFACE OWNER: Brenda L. Gould et al, Helen Sue Henderson and James William Henderson

ROYALTY OWNER: Brenda L. Gould, Helen Sue Henderson

UTM GPS NORTHING: 555606

UTM GPS EASTING: 4319109 GPS ELEVATION: 1147'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

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OCT 03 2017

WV Department of  
Environmental Protection

David Dean  
Signature

VP Production  
Title

9/29/2017  
Date

11/03/2017