



west virginia department of environmental protection

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

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

Thursday, January 19, 2017
WELL WORK PERMIT
Not Available / Plugging

LEATHERWOOD, INC. (A)
1000 CONSOL ENERGY DR

CANNONSBURG, PA 153176506

Re: Permit approval for 1
47-049-01022-00-00

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: 1
Farm Name: KEON
U.S. WELL NUMBER: 47-049-01022-00-00
Not Available / Plugging
Date Issued: 1/19/2017

Promoting a healthy environment.

01/20/2017

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

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.

WW-4B
Rev. 2/01

1) Date 11/22, 2016
2) Operator's
Well No. KOEN #1
3) API Well No. 47-049 - 01022

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 998.28 ft Watershed Pyles Fork
District Mannington County Marion Quadrangle Mannington

6) Well Operator Leatherwood, Inc. 7) Designated Agent Seth Wilson
Address 1000 CONSOL Energy Drive Address 7000 Hampton Center, Suite K
Canonsburg, PA 15317 Morgantown, WV 26505

8) Oil and Gas Inspector to be notified Name Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201
9) Plugging Contractor Name Coastal Drilling East LLC
Address 70 Gums Springs Road
Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:

See Attached.

RECEIVED
Office of Oil and Gas

NOV 29 2016

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

WV Department of
Environmental Protection

Work order approved by inspector [Signature] Date 11/23/2016

Koen #1

API 47-049-01022

Mannington District

Marion County

Location: Mannington

Proposed Plug & Abandonment Procedure:

The work order for the manner of plugging this well is as follows:

We will rig up on site and, if necessary, begin to blow the well down and load with fluid to kill. If possible, any tubing or rods present will be removed from the well. We will run in the hole to determine the total depth of the well. Next, we will run wire line in hole and run a caliper/bond log. After the log, we will run work string to the attainable bottom. A bottom cement plug will be set from the attainable to the first packer, based on the log. We will attempt to pull any remaining pipe. If unable to pull, the pipe will be perforated and cemented to surface. Once complete, a monument with the API number will be set on the wellbore at the surface. All plugging shall comply with WV Code Chapter 22 Article 6.

All cement will be Class A with no more than 3% CaCl₂. All spacers will be 6% gel.

The disturbed areas shall be graded, seeded and mulched as required. The site will be reclaimed as soon as possible.

Notify inspector if unable to remove pipe, prior to perforating +
Cementing.

SDW

11/23/2016

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Office of Oil and Gas

NOV 29 2016

WV Department of
Environmental Protection

INSTRUCTIONS

8550

3935

1) Attach a photo copy of the location of the well on a 7.5 minute Quadrangle with the corresponding Longitude and Latitude.
 2) Designate the location of the well with the symbol (+).

8120'00"
4100

7.5' Tick

LATITUDE 39° 34' 19"

LONGITUDE 80° 31' 50"



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief.

SIGNED

[Signature]

TITLE

VICE PRESIDENT

DATE

MARCH 15, 1993

OPERATORS WELL NO.

1

API WELL NO.

049-1022-N

RECEIVED
 BY DEPT. OF
 Environmental Protection
 MAR 10 93
 Permitting
 Office of Oil & Gas

16965

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (i.e. "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 4 1005 WATER SHED PYLES FORK
 DISTRICT MANNINGTON COUNTY MARION
 QUADRANGLE MANNINGTON 55

SURFACE OWNER KOEN ACREAGE _____

OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____
 LEASE NO. _____

PRODUCING FORMATION (4th) ? 15790 TOTAL DEPTH ?

WELL OPERATOR CHELSEA OIL & GAS CO. INC DESIGNATED AGENT AL ANDERSON

ADDRESS Box 1145 ~~Bridgesport WV~~ ADDRESS 501 W. MAIN ST
BRIDGESPORT WV 26330 BRIDGESPORT WV 26330

WW-4A
Revised 6-07

1) Date: 11/22/16
2) Operator's Well Number
Koen #1

3) API Well No.: 47 - 049 - 01022

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

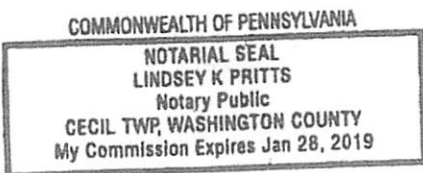
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name Shenal, Elizabeth T & Robert F Jr	Name Murray Energy Corp.
Address 51 Ell Way	Address 46226 National Road
Metz, WV 26585	St. Clairsville, OH 43950
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name Murray Energy Corp.
	Address 46226 National Road
	St. Clairsville, OH 43950
(c) Name	Name
Address	Address
6) Inspector Sam Ward	(c) Coal Lessee with Declaration
Address P.O. Box 2327	Name N/A
Buckhannon, WV 26201	Address
Telephone 304-389-7583	

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 Leatherwood, Inc.
 By: Gerald Ramsburg
 Its: General Manager
 Address 1000 Consol Energy Drive
 Canonsburg, PA 15317
 Telephone 724-485-4081

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 22nd day of November, 2016
 My Commission Expires January 28, 2019
 Notary Public
 WV Department of Environmental Protection

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.

WW-9
(5/16)

API Number 47 - 049 - 01022
Operator's Well No. Koen #1

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

Operator Name LEATHERWOOD, INC. OP Code 494476721

Watershed (HUC 10) Pyles Fork Quadrangle Mannington

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: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

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 Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns.)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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 providing 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 [Signature]

NOV 29 2016

Company Official (Typed Name) Gerald Ramsburg

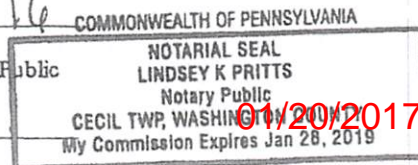
Company Official Title General Manager

WV Department of Environmental Protection

Subscribed and sworn before me this 22nd day of November, 2016

Lindsay K Pritts Notary Public

My commission expires January 28, 2019



Form WW-9

Operator's Well No. Koen #1

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

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: [Signature]

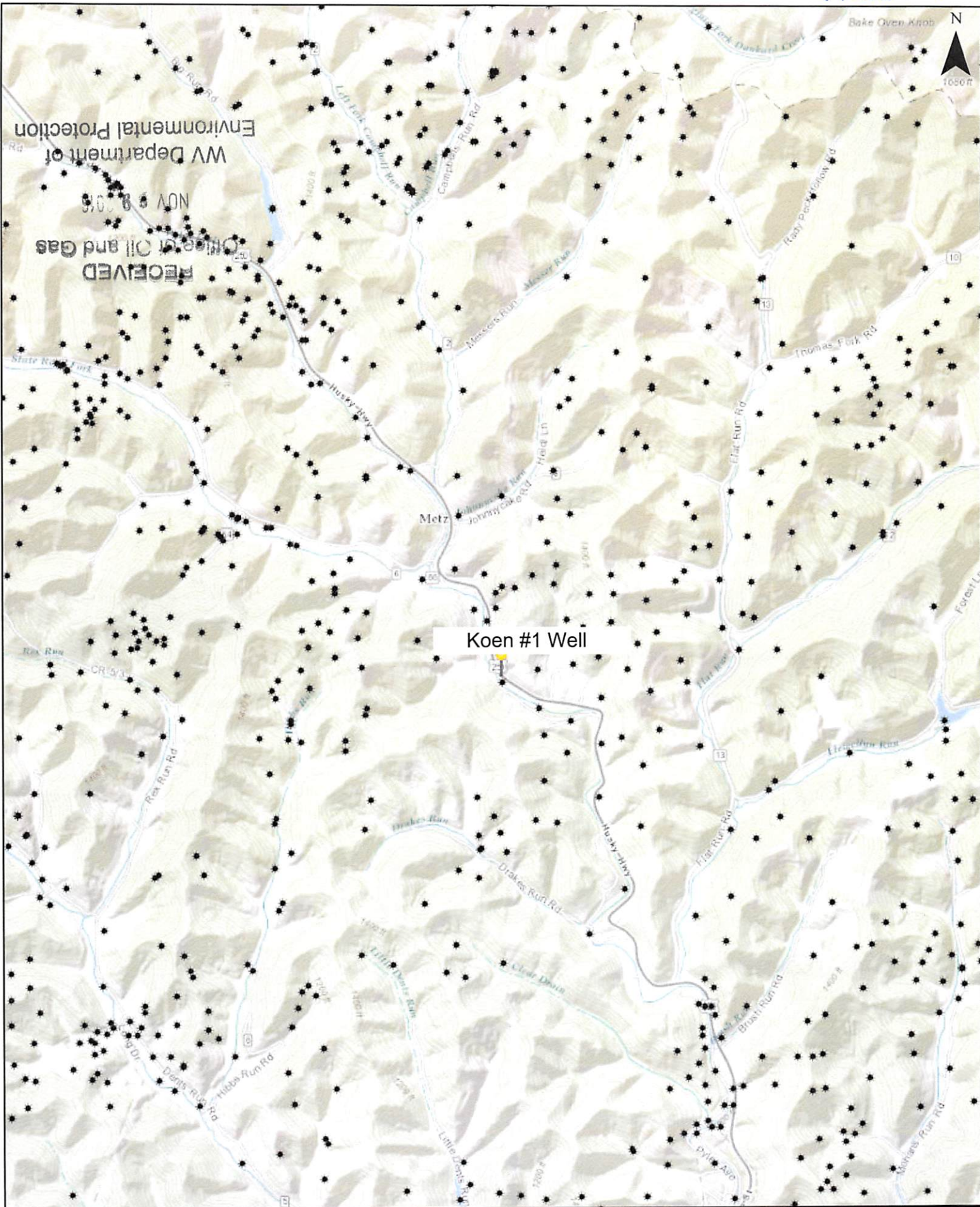
Comments: _____

Title: BOG Inspector Date: 11/23/2016

Field Reviewed? Yes No

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 Environmental Protection

Koen #1 Well

- Legend
- WhiteStar Wells
 - ★ CNX Utica Well Pad Centers - Drilled
 - ★ CNX Marcellus Well Pad Centers - Drilled

0 1,000 2,000 4,000 6,000 Feet
 Date: 11/18/2016 Prepared By: BLZ



This product was generated by
 CONSOL Energy's WEB Map.
 Intended for Internal Use Only.

Location Map Koen #1 Well

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-049-01022 WELL NO.: 1

FARM NAME: KOEN

RESPONSIBLE PARTY NAME: Gerald Ramsburg

COUNTY: MARION DISTRICT: MANNINGTON

QUADRANGLE: MANNINGTON

SURFACE OWNER: Shenal, Elizabeth T & Robert F Jr

ROYALTY OWNER: _____

UTM GPS NORTHING: 4380923.09m (998')

UTM GPS EASTING: 554503.48m GPS ELEVATION: 304.276m

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.


Signature

General Manager

Title

11/23/14
Date