



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, October 28, 2021
PERMIT MODIFICATION APPROVAL
Vertical / Plugging

COASTAL DRILLING EAST, LLC
130 MEADOW RIDGE RD.

MT. MORRIS, PA 15349

Re: Permit Modification Approval for 47-033-31792
47-033-05998-00-00

Plugging plan revised to cement to surface

COASTAL DRILLING EAST, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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: 47-033-31792
Farm Name: HALL, W.L.
U.S. WELL NUMBER: 47-033-05998-00-00
Vertical Plugging
Date Modification Issued: 10/28/2021

Promoting a healthy environment.

10/29/2021

47033.05998P

1) Date August 16, 202021
2) Operator's Well No. _____ White #1 _____
3) API Well No. 47-000 - 0098

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 X / Gas _____ / Liquid injection _____ / Waste disposal _____ /
(If "Gas, Production _____ or Underground storage _____) Deep _____ / Shallow _____

5) Location: Elevation 1048.08' Watershed West Fork
District Union County Harrison Quadrangle Freeman Creek

6) Well Operator Coastal Drilling East, LLC 7) Designated Agent Kevin Wright
Address 61 Guston Run Rd. Address 61 Guston Run Rd.
Morgantown, WV 26501 Morgantown, WV 26501

8) Oil and Gas Inspector to be notified Name Sam Ward 9) Plugging Contractor Name Coastal Drilling East, LLC
Address P.O. Box 2327 Address 61 Guston Run Rd.
Buckhannon, WV 26201 Morgantown, WV 26501

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

See attached plugging procedure

~~CHANGE TO NO. 3 OF PLUGGING PROCEDURE TO CLEAN OUT WELL BORE
30' BELOW THE PITTSBURGH COAL AND SET 8 5/8" CASING
THROUGH THIS COAL AND CEMENT TO SURFACE.~~

~~WELL IS NEAR GRANITE FORMATION STORAGE FIELD.~~

JWN

~~Bottom Hole WELL PLUG FROM 2539 - 2266' MAY BE DONE IN TWO STAGES IF NEEDED.~~

MADE CHANGE ON 10/28/2021 TO CEMENT TO SURFACE.

JWN
10/28/2021

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

Work order approved by inspector [Signature] Date 8/31/2021

10/29/2021



Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

"A Shaft Drillers International Company"

1. Notify Inspector Specialist, David Scranage, (304) 380-3749, Allen Flowers (304) 552-8308 and Samuel Ward (304) 389-7583 - 24 hrs. prior to commencing operations.
2. Remove barn and excavate around well and remove existing wooden conductor. Install 20' of 16" conductor pipe and cement in if necessary.
3. Clean out well bore to a minimum of 250' and set 8 5/8" casing and cement to surface with ~120 sacks of Class A cement to control possible storage field pressure. WOC a minimum of 8 hours.
4. Install Blowout Preventer on 8 5/8" casing and pressure test.
5. TIH w/ 7 7/8" bit and clean-out well bore with 6% Gel to the bottom of the 7" casing seat at 1818'.
6. Reduce the hole to 6 1/4" at 1818'. Clean-out the well bore with the 6 1/4" bit to the top of the existing 5 1/2" casing at 1835'. **may skip this step if 7 7/8" bit is drilling good**
7. Reduce the hole to 4 3/4" at 1835'. Clean-out the existing 5 1/2" casing and the remainder of the well bore with the 4 3/4" bit to total depth of 2539'.
8. TOH w/ 4 3/4" bit. Run caliper/ccl log to determine hole size and number of washouts.
9. TIH w/ 2 3/8" drill pipe (open ended) to 2539'. Cement hole from 2539' to 1784' (across Gordon Sand 2316-2360 and 5 1/2" casing seat at 1835') with ~112 sacks of Class A cement. WOC a minimum of 8 hours.
10. TIH and tag cement plug at 1784'. Cement hole from 1784' to 892' (covering elevation and the gas sand indicated on the well record) w/ ~414 sacks of Class A cement. WOC a minimum of 8 hours.
11. TIH and tag cement plug at 892'. Cement hole from 892' to surface (covering the Dunkard Sand 750'- 810' and the Pittsburgh Coal 211'- 218') w/ ~615 sacks of Class A cement.
12. Erect a minimum 6" diameter monument 10' in the ground and 30" above ground with API number attached.
13. Reclaim location and road to WV-DEP specifications.

RECEIVED
Office of Oil and Gas

OCT 28 2021

WV Department of
Environmental Protection

JMM

10/29/2021



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Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

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1. Notify Inspector Specialist, David Scranage, (304) 380-3749, Allen Flowers (304) 552-8308 and Samuel Ward (304) 389-7583 - 24 hrs. prior to commencing operations.
2. Remove barn and excavate around well and remove existing wooden conductor. Install 20' of 24 conductor pipe and cement in if necessary.
- ★ 3. Clean out well bore to a minimum of ~~120'~~ ^{~ 250'} and set 8 5/8" casing and cement to surface to control possible storage field pressure. WOC a minimum of 8 hours.
4. Install Blowout Preventer on 8 5/8" casing and pressure test.
5. TIH and clean-out well bore with 6% Gel to an estimated total depth of 2539'.
6. TOH and lay down drill string and run in hole with tubing string and set a minimum 100' bottom hole plug estimated from 2539' - ~~2439'~~ TOH and WOC.
7. Set a minimum ^{173'} cement plug from 2439' to ~~2266'~~ across the casing seat of the 5 1/2" casing. TOH and WOC.
8. TIH and tag cement plug at ~~2266'~~. Set 6% Gel spacer from ~~2266'~~ to 1885'. Set a minimum 100' cement plug from 1885' to 1785' across existing 5 1/2" casing seat. TOH and WOC. *** well record indicates that there was gas shut off between packers set 78' apart thence, isolating gas in the Gordon Sand***.
9. TIH and tag cement plug at 1785'. Set 6% Gel spacer from 1785' to 1098'. Set a minimum 100' cement plug from 1098' to 998' covering elevation and the gas sand indicated on well record. TOH and WOC.
10. TIH and tag cement plug at 998'. Set 6% gel spacer from 998' to 860'. Set a minimum 100' cement plug from 860' to 700' covering the Dunkard Sand. TOH and WOC.
11. TIH and tag cement plug at 700'. Set 6% Gel spacer from 700' to 450' set minimum 100' cement plug from 450' to 350' TOH and WOC.
12. TIH and tag cement plug at 350'. Set minimum 100' cement plug from 268' to 168' covering the Pittsburgh Coal. TOH and WOC.
13. TIH and tag cement plug at 168'. Set 6% Gel spacer from 168' to 100'. Set 100' cement plug from 100' to surface.
14. Erect a minimum 6" diameter monument 10' in the ground and 30" above ground with API number attached.
15. Reclaim location and road to WV-DEP specifications.

MAY BE
DEWIZ w/ ONE
PLUG FROM 2534'
TO 2266'

Replaced
10/28/21

SOW
8/31/2021