

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: DUFF GAS COM

Well Location: T30N / R12W / SEC 34 / SWNE / 36.7715 / -108.08112

County or Parish/State: SAN JUAN / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF077922

Unit or CA Name:

Unit or CA Number: NMNM102984

US Well Number: 3004526141

Well Status: Inactive

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2706634

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 12/09/2022

Time Sundry Submitted: 11:08

Date proposed operation will begin: 01/09/2023

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. A closed loop system will be used. A pre-disturbance site visit was not conducted as surface is Fee.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Duff_Gas_COM_1E_2023_PA_NOI_20221209110530.pdf

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Conditions of Approval

Additional

30N12W34GKpc_Duff_Gas_Com_001E_20221216114736.pdf

Authorized

2706634_NOIA_1E_3004526141_KR_12162022_20221216132704.pdf

General_Requirement_PxA_20221216132643.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KANDIS ROLAND

Signed on: DEC 09, 2022 11:05 AM

Name: HILCORP ENERGY COMPANY

Title: Operation Regulatory Tech

Street Address: 382 Road 3100

City: Farmington State: NM

Phone: (505) 599-3400

Email address: kroland@hilcorp.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 12/16/2022

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
Duff Gas Com 1E
NOTICE OF INTENT TO PERMANENTLY ABANDON

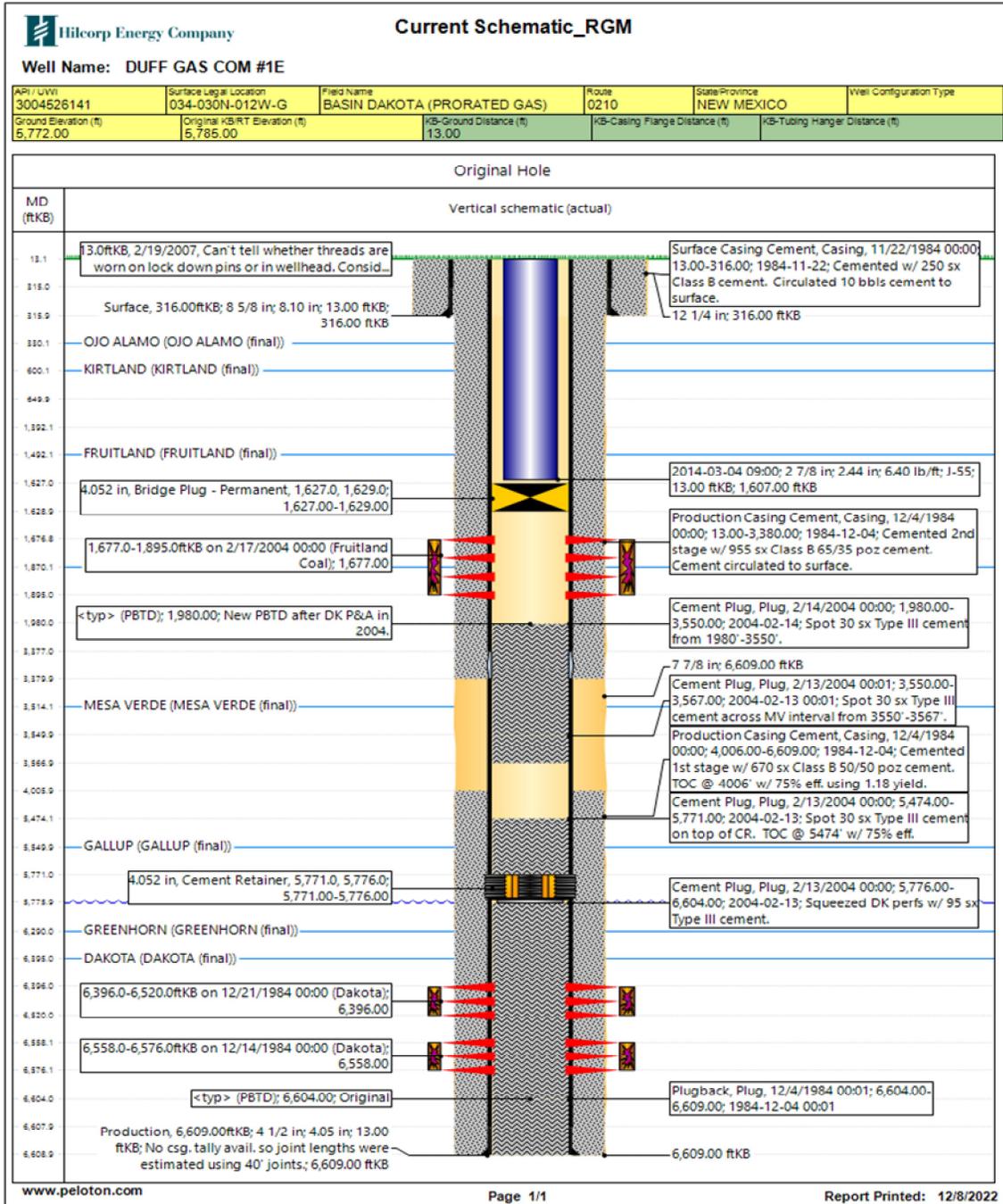
API #:	3004526141
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JOB PROCEDURES	
<input checked="" type="checkbox"/>	NMOCD Contact OCD (where applicable) 24 hrs prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations.
<input checked="" type="checkbox"/>	
	<ol style="list-style-type: none"> 1. MIRU service rig and associated equipment, record all pressures on wellbore. 2. Load well, ND tree, NU BOPs and test. 3. PUH 2-7/8" joint, take in & tag CIBP in place @ 1,627'. 4. Load well with inhibited brine & circulate clean. Pressure test the csg to 560 psi. Monitor for 30 minutes. 5. Plug #1 1,392' - 1,627' (CIBP @ 1,627' FRC Top Perf 1,677' Fruitland Top 1,492') Pump 16sx of Class III "Select" cement and spot an inside plug over CIBP & Fruitland Top. 6. PUH w/ 2-7/8" work string to 650'. 7. Plug #2 550' - 650' (Kirtland Top 600') Pump 11sx of Class III "Select" cement and spot an inside plug to cover Kirtland Top. 8. PUH w/ 2-7/8" work string to 380'. 9. Plug #3 Surface - 380' (Ojo Top 330', Surface Shoe 316') Pump 24sx of Class III "Select" cement and spot an inside plug to cover Ojo top & surface shoe. 10. LD tubing. ND BOP and cut off wellhead 5' below surface as per NMOCD. Top off cement at surface as needed. Weld new P&A maker.



HILCORP ENERGY COMPANY Duff Gas Com 1E NOTICE OF INTENT TO PERMANENTLY ABANDON

Duff Gas Com 1E - CURRENT WELLBORE SCHEMATIC



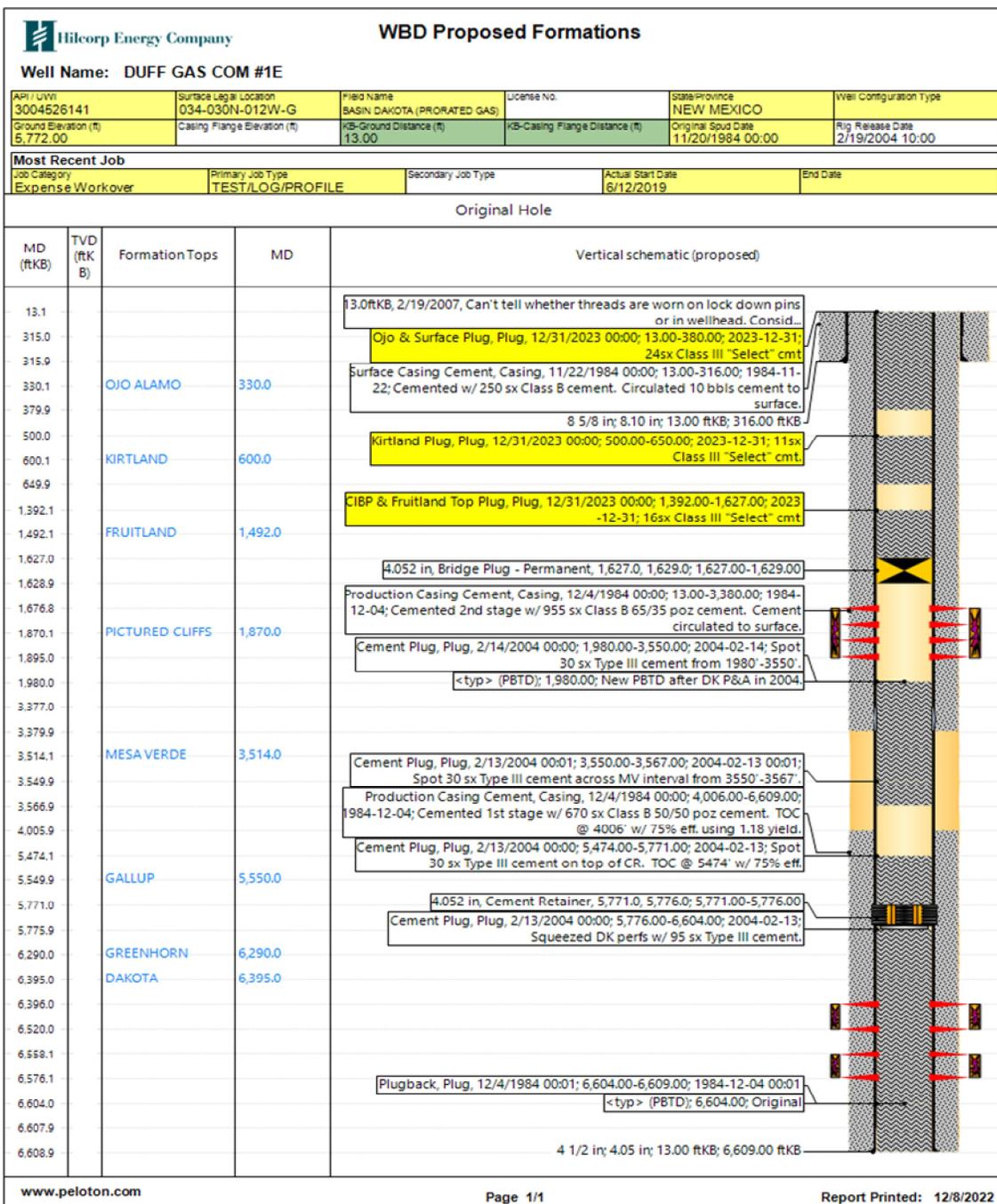


HILCORP ENERGY COMPANY

Duff Gas Com 1E

NOTICE OF INTENT TO PERMANENTLY ABANDON

Duff Gas Com 1E - PROPOSED P&A SCHEMATIC



**BLM FLUID MINERALS
P&A Geologic Report**

Date Completed: 12/16/2022

Well No. Duff Gas Com #001E (API# 30-045-26141)	Location	1770	FNL	&	1480	FEL
Lease No. NMSF077922	Sec. 34	T30N			R12W	
Operator Hilcorp Energy Company	County	San Juan		State	New Mexico	
Total Depth 6609'	PBTD 1627'	Formation Fruitland Coal/Pictured Cliffs				
Elevation (GL)		Elevation (KB) 5857'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento			Surface	430	Surface/freshwater sands
Ojo Alamo Ss			430	600	Aquifer (possible freshwater)
Kirtland Shale			600	1610	Possible Gas
Fruitland			1610	1870	Coal/Gas/Water
Pictured Cliffs Ss			1870	PBTD	Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:
P & A

Reference Well:
1) **Formation Tops**
Same

- BLM picks for the Ojo Alamo and Fruitland formation tops vary from Operator.
- Bring the bottom of Plug #1 down to 480', or combine with Plug #2 (Kirtland) to cover BLM pick for the Ojo Alamo formation top.
- Fruitland/Pictured Cliffs perms 1677' – 1895'.

Prepared by: Chris Wenman

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402**

AFMSS 2 Sundry ID 2706634

Attachment to notice of Intention to Abandon

Well: Duff Gas Com 1E

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
 - a. Bring the bottom of Plug #1 down to 480', or combine with Plug #2 (Kirtland) to cover BLM pick for the Ojo Alamo formation top.
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 12/16/2022

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
 - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
- 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
- 4.1 The cement shall be as specified in the approved plugging plan.
 - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.3 Surface plugs may be no less than 50' in length.
 - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
 - 4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

(October 2012 Revision)

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 171721

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 171721
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	1/11/2023
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	1/11/2023