ceived by UCD: 3/25/2022 9:24:50 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repo
Well Name: GRAHAM A WN FEDERAL	Well Location: T27N / R8W / SEC 9 / NESE / 36.586212 / -107.678345	<b>County or Parish/State:</b> SAN JUAN / NM
Well Number: 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM05791	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004506638	Well Status: Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

# **Notice of Intent**

Sundry ID: 2654259

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/26/2022

Date proposed operation will begin: 02/01/2022

Type of Action: Plug and Abandonment Time Sundry Submitted: 01:01

**Procedure Description:** Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 01/25/2022 with Bob Switzer/BLM. The Re-Vegetation Plan is attached. A closed loop system will be used.

**Surface Disturbance** 

Is any additional surface disturbance proposed?: No

**NOI Attachments** 

**Procedure Description** 

Graham\_A\_WN\_Fed\_2\_P\_A\_NOI\_Filed\_20220126130046.pdf

I	eceived by OCD: 3/25/2022 9:24:50 AM Well Name: GRAHAM A WN FEDERAL	Well Location: T27N / R8W / SEC 9 / NESE / 36.586212 / -107.678345	County or Parish/State: SAN JUAN / NM
	Well Number: 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	Allottee or Tribe Name:
	Lease Number: NMNM05791	Unit or CA Name:	Unit or CA Number:
	<b>US Well Number:</b> 3004506638	Well Status: Gas Well Shut In	<b>Operator:</b> HILCORP ENERGY COMPANY

# **Conditions of Approval**

#### Additional Reviews

General\_Requirement\_PxA\_20220324120355.pdf

2654259\_NOIA\_2\_3004506638\_KR\_03242022\_20220324120343.pdf

27N08W09IKpc\_Graham\_A\_WN\_Federal\_2\_20220324103634.pdf

# **Operator Certification**

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: AMANDA WALKER

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

# Field Representative

Representative Name:	
Street Address:	
City:	:
Phone:	
Email address:	

State:

State: TX

# **BLM Point of Contact**

BLM POC Name: KENNETH G RENNICK BLM POC Phone: 5055647742 Disposition: Approved Signature: Kenneth Rennick Signed on: JAN 26, 2022 01:01 PM

BLM POC Title: Petroleum Engineer

Zip:

BLM POC Email Address: krennick@blm.gov

Disposition Date: 03/24/2022

# Plug and Abandonment - NOI

# Graham A WN Fed 2

API # - 3004506638

# Procedure:

Hold PJSM prior to beginning any and all operations. Properly document all operations via the JSA process. Ensure that all personnel onsite abide by HEC safety protocol, including PPE, housekeeping, and standard guidelines.

Verify cathodic protection is off and wellhead instrumentation is properly disconnected from the wellhead. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.

Verify there is no H2S present prior to beginning operations. If any H2S is present, take the necessary actions to ensure that the location is safe prior to beginning operations.

Observe and record pressures across all string daily, prior to beginning operations. Remember to notify NMOCD 24 hours prior to starting operations on location.

NOTE: **This procedure is contingent upon P&A sundry approval by NMOCD**. All cement volumes use 100% excess outside pipe and 50' excess inside (unless otherwise stated). All cement will be Class G, mixed at 15.8 ppg w/ a 1.15 cf/sx yield. The stabilizing wellbore fluid will be an 8.3 ppg fluid, sufficient to balance all exposed formation pressures.

- 1. This project will use a steel tank to handle waste fluids circulated from the well and cement wash up.
- 2. Test anchors if not using a base beam. Comply with all NMOCD, BLM, and HEC safety regulations. MIRU and conduct safety meeting for all personnel on location.
- 3. Record casing, tubing, and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary. Ensure well is dead or on a vacuum.
- 4. RUPU and POOH with 2-3/8" tubing.
- 5. Plug #1, 2067' 2037' (PC Top: 2092')
- 6. RIH with 5.5" CIBP and set at 2067' (30' above top perforation)
- 7. Cap CIBP with 30' of cement (0.714 bbl. cement)
- 8. RUWL and run CBL from 2037' to surface.
- 9. RIH with 2-3/8" tubing, circulate plug mud from 2037' to 1733'

# 10. Plug #2, 1733' - 1633' (Fruitland Top: 1683')

- 11. Circulate cement plug from 1733' to 1633' (2.38 bbl)
- 12. Circulate plug mud from 1633' to 1375'. Pooh with tubing and stand back.
- 13. RUWL and RIH to perforate. Perforate 2SPF 120 degree phasing 1375' and 1374'
- 14. POOH with WL. PU CICR on tubing and RIH to 1165'
- 15. Set retainer and function test.

# 16. Plug #3, 1375'-1135' (Kirtland Top: 1325' Ojo Alamo Top:1215')

- 17. Squeeze 40.5 bbl below retainer (15.25 bbl for 8-5/8" x 5.5" annulus and 5.0 bbl for 210' of 5.5" capacity X2 for excess)
- 18. Sting out of retainer and cap with 30' of cement (0.714 bbl)
- 19. POOH with work string to 177'
- 20. Plug #3, 177' Surface (Surface Shoe: 127')
- 21. Cement was squeezed down bradenhead during original completion. Do not plan to perforate, will modify based on CBL results if needed.
- 22. Circulate cement to surface and fill 5.5" ID (4.25 bbl).
- 23.ND BOP and cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location.

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3004506638		Surface Legal Location 009-027N-008W-I	Field Name PC	Ucen	IN NO.	State/Province NEW MEXICO	Well Configuration Type
Nghai Ka/RT Elec	ation (ft)		5riginal Spud Date 5/21/1956 00:00	Rg Release	Oute	PETO (AI) (NKE)	Total Depth All (TVD) (NK2)
lost Recent J	ob						
s Category Xipense Works	ver	Primary Job Type TUBING REPAIR	Secondary I INSTALL	Jeb Type PLUNGER	Actual Sta 3/18/201		Ind Date 3/19/2019
D: 2,205.				Original H			
MD (ftKB)				-	hematic (actual)		
MD (ftks)				vertical sc	nematic (actual)		
7.9							
							ger; 8.00-9.00; 1.00; 2-1; 5
8.9						1/2; 2.00	
- 40.4						64 C	)-40.20; 31.20; 2-2; 2 3/8; 2.00 Joint; 40.20-44.20; 4.00; 2-3;
						2 3/8; 2.00	
- 44.3						2 3/8in, Tubing Pup 2 3/8: 2.00	Joint; 44.20-50.20; 6.00; 2-4;
- 50.2						Casing Joints, 8 5/8i	n; 8.00-126.00; 118.00; 1-1; 8
- 126.0						5/8; 8.10	
126.0							126.00-127.00; 1.00; 1-2; 8
- 127.0 -						5/8; 8.10	
134.8 -							
						2 2/Pin Tubina: 50 2	0-2,100.59; 2,050.39; 2-5; 2
299.9					~~~	∫ 3/8; 2.00	
1,214.9 -	-OJO AL	AMO (OJO ALAMO (final))		_		Casing Joints, 5 1/2i 1: 5 1/2: 4.95	n; 8.00-2,204.00; 2,196.00; 2-
- 1,325.1 -	-KIRTLA	ND (KIRTLAND (final)) —					
- 1,438.0 -							
1.000.1	-						
- 1,683.1 -		AND (FRUITLAND (final))					
- 2,091.9	-PICTUR	ED CLIFFS (PICTURED CLI	FFS (final))				
2,097.1 -							
				200 2008	1952		Joint; 2,100.59-2,102.59; 2.00
- 2,100.7 -				000	1220		2.59-2,133.79; 31.20; 2-7; 2
2,102.7 -				2000 I			
				2220	1886		on 8/29/1956 00:00 (PERF - 2,097.00-2,150.00; 1956-08-29
2,133.9				2008 2008	1996 ··· )	2 3/8in, Pump Seatin	g Nipple; 2,133.79-2,134.89;
2,134.8 -				- 200		1.10; 2-8; 2 3/8; 1.78 2 3/8in, Mule Shoe/	(CK; 2,134.89-2,135.75; 0.86;
2,135.8 -				2398 2299	- <b>1995</b>	2-9; 2 3/8; 2.00	
2,133.8				600 M	1000		
2,149.9 -				220	1995 1995		
2,170.9							
- 2,204.1 -							2,204.00-2,205.00; 1.00; 2-2;
2,205.1						5 1/2; 4.95	

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PL/UM	Surface Legal Location	Field Name License No.	State Province	Well Configuration Type
004505538 Friginal K&IRT Elevation (%)	009-027N-008W-I K8-Ground Distance (ft) Orig	PC nal Sout Date Rig Release Date	NEW MEXICO PETE (AI) (%K2)	O Total Depth AT (TVD) (11K2)
921.00		1/1956 00:00		Total Depth AI (TYD) (IIAE)
lost Recent Job		Secondary Job Type	Actual Start Data	
b Category Xpense Workover	Primary Job Type TUBING REPAIR	INSTALL PLUNGER	3/18/2019	3/19/2019
D: 2,205.0		Original Hole		
MD (ftKB)		Vertical schemat	tic (actual)	
7.9 -		0000	9625	
8.9			1/2; 2.00	ing Hanger; 8.00-9.00; 1.00; 2-1; 5
40.4			See State	bing; 9.00-40.20; 31.20; 2-2; 2 3/8; 2.00 bing Pup Joint; 40.20-44.20; 4.00; 2-3;
			2 3/8; 2.00	-
44.3			2 3/8, 2.00	ing Pup Joint; 44.20-50.20; 6.00; 2-4;
50.2			Casing Join 5/8; 8.10	ts, 8 5/8in; 8.00-126.00; 118.00; 1-1; 8
126.0			300	, 8 5/8in; 126.00-127.00; 1.00; 1-2; 8
127.0			5/8; 8.10	
134.8				
299.9			2 3/8in, Tub	oing; 50.20-2,100.59; 2,050.39; 2-5; 2
1,214.9 - OJO A	LAMO (OJO ALAMO (final))		Casing Join 1; 5 1/2; 4.9	ts, 5 1/2in; 8.00-2,204.00; 2,196.00; 2- 5
1,325.1	AND (KIRTLAND (final))			
1,438.0		wa		
1,683.1 FRUIT	LAND (FRUITLAND (final)) -			
2,091.9	RED CLIFFS (PICTURED CLIFFS	(final))		
2.097.1				
2.100.7		299. 2578 -	To come o	ing Pup Joint; 2,100.59-2,102.59; 2.00 .00
2,102.7		1999 - 1999 -	2 3/8in, Tub	oing; 2,102.59-2,133.79; 31.20; 2-7; 2
		1974 - 1999 -	2,097.0-2,15	0.0ftKB on 8/29/1956 00:00 (PERF - CLIFFS); 2.097.00-2.150.00; 1956-08-29
2,133.9		- 2016   2016	2 3/8in, Pun	np Seating Nipple; 2,133.79-2,134.89;
2,134.8			2 3/8in, Mu	le Shoe/XCK; 2,134.89-2,135.75; 0.86;
2,135.8		200 - 208 -	2-9; 2 3/8; 2 2003	.00
2,149.9		1988 - 208	1325	
2,170.9				
2,204.1				5 1/2in: 2 204.00-2 205.00: 1.00: 2-2:
			Guide Shoe	, a 1/210; 2,204.00*2,205.00; 1.00; 2*2;

#### Hilcorp Energy P&A Final Reclamation Plan Graham A WN Federal 2 API: 30-045-06638 T27N-R8W-Sec. 9-Unit I LAT: 36.586208 LONG: -107.67835 NAD 27 Footage: 1844' FSL & 256' FEL San Juan County, NM

#### 1. PRE- RECLAMATION SITE INSPECTION

A pre-reclamation site inspection was completed with Bob Switzer from the BLM, Mike Raney from Enterprise, and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on January 25, 2022.

#### 2. LOCATION RECLAMATION PROCEDURE

- 1. Reclamation work will begin in spring/summer.
- 2. Removal of all equipment, anchors, line drip, and flowlines.
- 3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
- 4. BGT will be sampled and closed once test results are clear.
- 5. Line drip will be pulled and tested.
- 6. No recontouring of location will be needed. Location will just be seeded.
- 7. Remove all gravel from berms, pads, and meter run and use for back fill of BGT.
- 8. Enterprise will remove pipeline from meter run to dog leg.

#### 3. ACCESS ROAD RECLAMATION PROCEDURE

- 1. Reclaim road from location to dog leg on lease road by ripping and seeding.
- 2. Road will be blocked at dog leg on lease road with berm and diversion ditch.
- 3. Culvert will be removed from lease road before location.

#### 4. SEEDING PROCEDURE

- 1. A Sagebrush seed mix will be used for all reclaimed and disturbed areas of the well pad and sides of lease road.
- 2. Drill seed will be done where applicable, and all other disturbed areas will be broadcast seeded and harrowed. Broadcast seeding will be applied at a double the rate of seed.
- 3. Timing of the seeding will be when the ground is not frozen or saturated.
- 5. WEED MANAGEMENT
  - 1. No noxious weeds were identified during this onsite.

# 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 <u>minimum general</u> 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.

Page 1

2

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  $H_2S$ .

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 <u>date</u> 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.

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2654259

Attachment to notice of Intention to Abandon

Well: Graham A WN Federal 2

**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) Adjust cement volume for Plug #1 (Pictured Cliffs) so that 50' of cement is placed on top of the CIBP.
  - b) Bring the bottom of Plug #3 (Kirtland and Ojo Alamo) down to 1430' to cover BLM pick for the Kirtland top (1380').
- 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 3/24/2022

### BLM FLUID MINERALS P&A Geologic Report

### **Date Completed:** 03/24/2022

Well No. Graham A WN Federal #2	Location	1844	FSL	&	256	FEL	
Lease No. NMNM-05791	Sec. 09	T27N			R08W		
Operator Hilcorp Energy Company		County	San Juan		State	New Mexico	
Total Depth 2205' PBTD 2171'		Formation	Pictured Cliffs				
Elevation (GL) 5913'	Elevation (KE	3) 5921'					

<b>Geologic Formations</b>	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm			Surface	1215	Surface/freshwater sands
Ojo Alamo Ss			1215	1380	Aquifer (possible freshwater)
Kirtland Shale			1380	1683	
Fruitland Fm			1683	2092	Coal/Gas/Possible water
Pictured Cliffs Ss			2092	PBTD	Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Formation					

#### Remarks:

P & A

- BLM pick for the Kirtland formation top varies from Operator.
- Adjust cement volume for Plug #1 (Pictured Cliffs) so that 50' of cement is placed on top of the CIBP.
- Bring the bottom of Plug #3 (Kirtland and Ojo Alamo) down to 1430' to cover BLM pick for the Kirtland top (1380').
- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perfs 2097' 2150'.

<u>Reference Well:</u> 1) Formation Tops Same

.

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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	93101
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By	Condition	Condition Date				
kpickford	CBL required	3/28/2022				
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/28/2022				
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	3/28/2022				

CONDITIONS

Page 12 of 12

Action 93101