J.S. Department of the Interior		Sundry Print Repo
BUREAU OF LAND MANAGEMENT		atter All and
Well Name: CANYON LARGO UNIT	Well Location: T25N / R6W / SEC 1 / NENE / 36.433029 / -107.412003	<b>County or Parish/State:</b> RIO ARRIBA / NM
Well Number: 237	<b>Type of Well:</b> CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078885	<b>Unit or CA Name:</b> CANYON LARGO UNIT MV"B"PA, CANYON LARGO UNIT- -CH	<b>Unit or CA Number:</b> NMNM78383B, NMNM78383F
US Well Number: 3003920792	Well Status: Producing Gas Well	<b>Operator:</b> HILCORP ENERGY COMPANY

**Notice of Intent** 

Sundry ID: 2730133

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Type of Submission: Notice of Intent

Date Sundry Submitted: 05/10/2023

Date proposed operation will begin: 05/24/2023

Type of Action: Plug and Abandonment

Time Sundry Submitted: 11:25

**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 4/4/2023 with Roger Herrera/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** 

 $Canyon\_Largo\_Unit\_237\_P\_A\_NOI\_20230510112500.pdf$ 

eceived by OCD: 5/22/2023 6:59:12 AMT

Well Number: 237

Lease Number: NMSF078885

**US Well Number: 3003920792** 

Well Location: T25N / R6W / SEC 1 / NENE / 36.433029 / -107.412003

Type of Well: CONVENTIONAL GAS WELL

Unit or CA Name: CANYON LARGO UNIT MV"B"PA, CANYON LARGO UNIT--CH

Well Status: Producing Gas Well

County or Parish/State: Rege 2 of ARRIBA / NM

Allottee or Tribe Name:

Unit or CA Number: NMNM78383B, NMNM78383F

**Operator:** HILCORP ENERGY COMPANY

# **Conditions of Approval**

### Additional

25N06W01AKmv\_Canyon\_Largo\_Unit\_237\_20230517142623.pdf

### Authorized

General\_Requirement\_PxA\_20230517172518.pdf

2730133\_NOIA\_237\_3003920792\_KR\_05172023\_20230517172508.pdf

State: NM

### 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** 

Name: HILCORP ENERGY COMPANY

Title: Operation Regulatory Tech

Street Address: 382 Road 3100

City: Farmington

Phone: (505) 599-3400

Email address: kroland@hilcorp.com

### Field

Representative Name:	
Street Address:	
City:	State:
Phone:	

**BLM Point of Contact** 

**Email address:** 

BLM POC Name: KENNETH G RENNICK BLM POC Phone: 5055647742

Disposition: Approved

Signature: Kenneth Rennick

Signed on: MAY 10, 2023 11:25 AM

BLM POC Title: Petroleum Engineer

Zip:

BLM POC Email Address: krennick@blm.gov

Disposition Date: 05/17/2023

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	Hilo	orp		Canyon	NERGY COMPANY Largo Com 237 D PERMANENTLY ABANDON
	API #	<b>#:</b>	3003920792		]
				JOB I	PROCEDURES
<ul><li>✓</li><li>✓</li></ul>	NMOCD BLM		D and BLM (where nvironmental reg	•• •	's prior to MIRU. Comply with all NMOCD, BLM (where applicable), and HEC
1.	MIRU service ri	g and associate	ed equipment, reco	rd all pressures on	wellbore.
2.	Rig up to LS sid	le (MV Complet	tion). Load well, NI	D tree, NU BOPs ar	nd test.
3.	POOH w/ 1-1/4'	" 2.33# IJ tbg &	pkr set at 5,242'		
4.	MU 2-7/8" 6.5#	GR, clear csg t	o 5,032', POOH. N	/IU 2-7/8" 6.5# CIBF	P and set @ 5,032' (MV top perf @ 5,082').
5.				Pressure test the cs ange pending CBL	g to 560 psi. Monitor for 30 minutes. <i>Run CBL from 5,032' to surface.</i> results.
6.	RIH w/ 1-1/4" w	ork string to CIF	3P @ 5,032', tag ir	place.	
7.	<b>Plug #1a   4,41</b> CIBP.	3' - 5,032' (CIB	P @ 5,032'   MV T	op Perf: 5,082') Pu	ump 15sx (3.7bbl) Class III "Select" cement and spot a 619' inside plug over the
8.	Plug #2a   3,63	7' - 3,787' (Cha	icra Top @ 3,737'	Pump 4sx (1.0bbl	) Class III "Select" cement and spot a 150' inside plug to cover the Chacra Top.
9.	<b>Plug #3a   2,12</b> 780' inside plug		Top 2,855', FRD <sup>-</sup>	Гор 2,458', KRD Te	op 2,426', OJO Top 2,225') Pump 19sx (4.6bbl) Class III "Select" cement and spot a
10.	Plug #4a   10' -	177' (Surface	Shoe @ 137') Pur	np 4sx (1.0bbl) Clas	ss III "Select" cement and spot a 167' inside plug over the surface shoe.
11.	Rig up to SS sid	de (Chacra CH	Completion). Load	well, ND tree, NU I	BOPs and test.
12.	MU 2-7/8" 6.5#	GR, clear csg t	o 3,686', POOH. M	/IU 2-7/8" 6.5# CIBI	P and set @ 3,686' (CH top perf @ 3,736').
13.				Pressure test the cs ange pending CBL	g to 560 psi. Monitor for 30 minutes. <i>Run CBL from 3,686' to surface.</i> results.
14.	RIH w/ 1-1/4" w	ork string to CIF	3P @ 3,736', tag ir	place.	
15.	Plug #1b   3,53	6' - 3,686' (CIB	P @ 3,686'   CH T	<b>op Perf: 3,736')</b> Pu	ump 4sx (1.0bbl) Class III "Select" cement and spot a 150' inside plug over the CIBP.
16.	<b>Plug #2b   2,12</b> 780' inside plug		Top 2,855', FRD	Top 2,458', KRD To	op 2,426', OJO Top 2,225') Pump 19sx (4.6bbl) Class III "Select" cement and spot a
17.	Plug #3b   10' -	177' (Surface	Shoe @ 137') Pur	np 4sx (1.0bbl) Cla	ss III "Select" cement and spot a 167' inside plug over the surface shoe.
18.	LD tubing. ND E	3OP and cut off	wellhead below su	urface casing flange	e as per NMOCD. Top off cement at surface as needed. Weld new P&A maker.



#### HILCORP ENERGY COMPANY Canyon Largo Com 237 NOTICE OF INTENT TO PERMANENTLY ABANDON

	Tilcorp Energy Company Curree Name: CANYON LARGO UNIT NP #237	ent Schematic_	KGM			
PI/UWI 3003920	Surface Legal Location Field Name	RDE (PRORATED GAS	Route 1405	State/Province NEW MEX	(ICO	Well Configuration Type VERTICAL
around Ele 6,652.00		Ground Distance (ft) .00	KB-Casing Flange	e Distance (ft)	KB-Tubing Hang	er Distance (it)
	Orig	inal Hole [VERTICA	L]			
MD		Vertical schematic (ac				
(ftKB)				Surface Casing	Comont C	ring 11/10/1072 00:00
9.8 -		NUN NUN		10.00-137.00; 1		asing, 11/19/1973 00:00; 142cuft cmt - Circ'd to
136.2 -				surface. 13 3/4 in; 137.0	00 ftKB	
137.1 -	Surface, 137.00ftKB; 9 5/8 in; 9.00 in; 10.00 ftKB; 137.00 ftKB					ide), Casing - Remedial,
176.8 -						1.00; 1989-09-28; 65sx it BH, then shut in BH &
391.1 -		998 - 998	88	sqz'd add'l 20s		ation. 850psi test was
1,899.9 -				good.		
1,950.1 -				8 3/4 in; 3,955.	00 ftKB	
2,125.0						
2,225.1 -	— OJO (OJO (final)) —					
2,425.9 -	KIRTLAND (KIRTLAND (final))					
2,458.0 -						
2,855.0 -	PICTURED CLIFFS (PICTURED CLIFFS (final))					
2,904.9 -						t, Casing, 12/25/1973
3,536.1 -			l	00:00; 1,950.00	-3,955.00; 19	973-12-25; 839cuft cmt.
3,637.1						t, Casing, 12/25/1973 973-12-25; 409cuft cmt
					-,,	
3,686.0 -						
3,688.0 -						
3,735.9 -			1			
3,736.9 -	— CHACRA (CHACRA (final))					
3,787.1 -	3,736.0-3,844.0ftKB on 4/17/1974 00:00 (PERF CHACRA); 3,736.00		2			
3,844.2 -						
3,945.9 -				00:00 (plug); 3,		t, Casing, 12/25/1973 5.00; 1973-12-25;
3,955.1 -	Production1, 3,955.00ftKB; 2 7/8 in; 2.44 in; 10.00		j 🖉 🕴	839cuft cmt.		
4,413.1	ftKB; 3,955.00 ftKB					
4,513.1 -	MESA VERDE (MESA VERDE (final))					
				6 3/4 in; 5,302.	00 ftKB	
5,032.2						
5,034.1 -						
5,082.0 -	5,082.0-5,240.0ftKB on 4/17/1974 00:00 (PERF		M			
5,240.2 -	MESA VERDE); 5,082.00			Production Ca	sing Cemen	t, Casing, 12/25/1973
5,292.0 -						2.00; 1973-12-25;
5,301.8 -	Production2, 5,302.00ftKB; 2 7/8 in; 2.44 in; 10.00 ftKB; 5,302.00 ftKB			5,302.00 ftKB		
www.p	peloton.com	Page 1/1			R	eport Printed: 3/23/2023



#### HILCORP ENERGY COMPANY Canyon Largo Com 237 NOTICE OF INTENT TO PERMANENTLY ABANDON

	ilcorp Energy ame: CAN		y RGO UNIT NI		BD Propos	ed Form	ations				
API/UWI 30039207	792		gal Location 5N-006W-A	Field Name	AVERDE (PRORATED G	License No.		State/Prov	/ince MEXICO	Well Configuration Type VERTICAL	2
Ground Eleva 6.652.00			inge Elevation (ft)	KB-Ground D 10.00		KB-Casing Flange	Distance (ft)	Original S	Spud Date 1973 00:00	Rig Release Date	
Most Red				10.00							
Job Category		Pri	mary Job Type		Secondary Job Type		Actual Start	Date	End D	ate	
					Original Ho	le [VERTICAI	.]				
/ID (ftKB)	Formation Tops	MD				Vertical sc	nematic (pr	oposed)			
9.8 -   136.2 -   137.1 -   137.1 -   137.1 -   137.1 -   137.1 -   137.1 -   1.899.9 -   2.125.0 -   2.225.1 -   2.425.9 -   2.425.9 -   2.458.0 -   2.904.9 -   3.636.1 -   3.636.1 -   3.686.0 -   3.736.9 -   3.736.9 -   3.736.9 -   3.945.2 -   3.955.1 -   4.413.1 -   5.032.2 -   5.034.1 -	OJO KIRTLAND FRUITLAND PICTURED CL CHACRA MESA VERDE	2,225.0 2,426.0 2,458.0 2,855.0 3,737.0 4,513.0	00:00; 10.00- Surface Plug 00:00; 10.00- Surface Plug 00:00; 10.00- 11/19/1973 9 5/8 in; 9/ PC Remedial, 9/2 55x Class B ci shut in forma PC, FRD, KRI 12/31/2023 00 PC, FRD, KRI 12/31/2023 00 PC, FRD, KRI 12/31/2023 00 Product 12/25/19 Chacra Plug 00:00; 3,637.00 Product 12/25/19 Chacra Plug 00:00; 3,637.00 Product 12/25/19 P	177.00; 4sx ( (LS Side), Pl 177.00; 4sx ( acc Casing C 00:00; 10.00- cmt - Ci 00 in; 10.00 fm 18H Job (MV (8/1989 00:0) mt. Circulate BH & sq2'd tion. 850psi ), OJO Plugs 0:00; 2,125.00 (4.6bbl) Clas ), OJO Plugs 0:00; 2,125.00 (4.6bbl) Clas ion Casing C (73 00:00; 1,9 (SS Side), Pl -3,686.00; 4s ion Casing C 173 00:00; 1,9 (LS Side), Pl -3,787.00; 4s; ion Casing C 173 00:00; 1,9 (LS Side), Pl -3,787.00; 4s; ion Casing C 1973 00:00; 0 (3,955.0) i m Casing C	ug, 12/31/2023 1.0bbi) Class III- Select cmt. ug, 12/31/2023 1.0bbi) Class III- Select cmt. isenent, Casing, 137.00; 142cuft iselect cmt. isenent, Casing, 0; 10.00-391.00; 10.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 12.00-391.00; 13.00, 13.				3,688.00 ◆Top MD:3,736.0 2,44 in, CIBP, 5,0 5,034.00	) <u>32.0, 5,034.0; 5,03</u> .	
5,240.2 - 5,292.0 - 5,301.8 -			12/25/	1973 00:00 (j 5,302.(	ement, Casing, plug); 5,292.00- 00; 409cuft cmt B; 5,302.00 ftKB-				—_Top MD:5,082.0	0 ftKB	
www.pe	eloton.com	ıl			P	age 1/1			F	eport Printed:	3/23/2023

# **Hilcorp Energy**

Canyon Largo Unit 237

36.43301, -107.412

API-30-039-20792

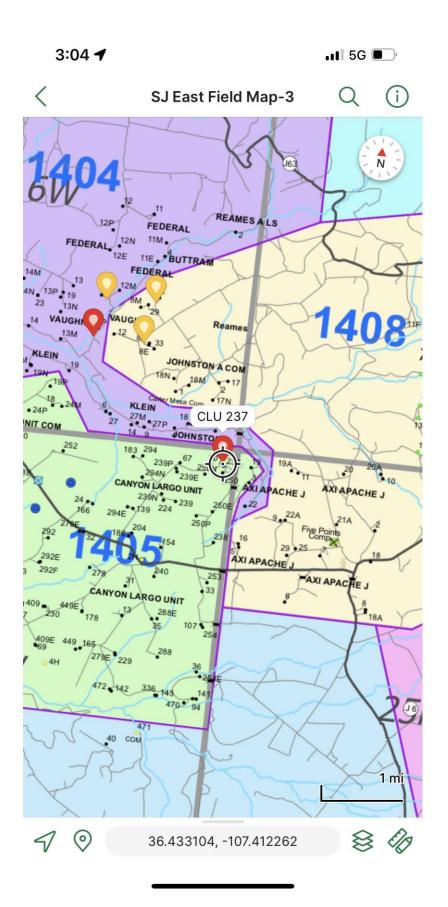
27N-05W SEC 35

# **Final Reclamation Plan**

Onsite Completed on 4/4/2032 with Roger Herrera

- 1. Pick up and remove all trash, metal, cable, and any foreign debris within 100' of location.
- 2. Remove anchors.
- 3. Strip equipment off facility.
- 4. Remove piping and cables.
- 5. Enterprise to remove meter runs and piping back to dog leg.
- 6. Push fill from the west side of location back to cut slope on the east side, re-creating natural terrain.
- 7. Rip compacted soil, leaving rough terrain.
- 8. Re-seed all disturbed areas. Drill where applicable at rate per acre defined by seed mix(1.5 acres), and broadcast seed and harrow, at double the rate, all other disturbed areas. Pinion/Juniper seed mix will be used.





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

## **Date Completed:** 5/17/2023

Well No. Canyon Largo Unit #237 (A	Location	1050	FNL	&	800	FEL	
Lease No. NMSF078885	Sec. 01	T25N			R06W		
Operator Hilcorp Energy Company	County	Rio Arriba		State	New Mexico		
Total Depth 5302'	PBTD 5292'/3946'	Formation Chacra/Mesaverde					
AFMSS Sundry ID 2730133	Elevation (KI	3) 6657'					

<b>Geologic Formations</b>	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose			Surface	828	Surface/possible freshwater sands
Nacimiento			828	2255	Possible usable water sands
Ojo Alamo Ss			2255	2426	Aquifer (fresh to usable water)
Kirtland Shale			2426	2570	Possible gas
Fruitland			2570	2855	Coal/Gas/Water
Pictured Cliffs Ss			2855	2968	Probable Gas
Lewis Shale			2968	3737	
Chacra (lower)			3737	4513	Possible Gas
Cliff House Ss			4513	4597	Water/possible gas
Menefee			4597	5028	Coal/Ss/Water/possible gas
Point Lookout Ss			5028	PBTD	
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks: P & A

Reference Well: 1) Formation Tops Same

BLM picks for the Nacimiento and Fruitland formation tops vary from Operator. \_

- Add a plug on both sides to cover BLM pick for the Nacimiento formation top <mark>(828').</mark>

- Chacra perfs 3736' 3844'. -
- Mesaverde (Point Lookout) perfs 5082' 5240'. -

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## 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.

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), through the Automated Fluid Minerals Support System (AFMSS) 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 2730133

Attachment to notice of Intention to Abandon

Well: Canyon Largo Unit 237

**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. Add a plug on both sides to cover BLM pick for the Nacimiento formation top (828').
- 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 05/17/2023

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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	218888
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 5/24/23. BLM approved P&A 5/17/23	5/24/2023

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Action 218888