RECEIVED:	REVIEWER:	TYPE:	APP NO:	
	- Geologi	ical & Engineerin	ATION DIVISION	STOP NEW ASSESSMENT OF NEW ASS
		RATIVE APPLICAT		
THIS	CHECKLIST IS MANDATORY FOR A REGULATIONS WHICH R		CATIONS FOR EXCEPTIONS HE DIVISION LEVEL IN SANTA	
Applicant:			OGR	ID Number:
Nell Name:			API:_	
2001:			P00I	Code:
SUBMIT ACCUR	RATE AND COMPLETE IN	FORMATION REQUINDICATED BEL		THE TYPE OF APPLICATION
A. Location	ICATION: Check those n – Spacing Unit – Simul NSL □ NSP _®		on	SD
[1] Con [one only for [1] or [11] nmingling – Storage – N DHC	PLC ∐PC ∐ ure Increase – Enf	OLS OLM nanced Oil Recove EOR PPR	ery FOR OCD ONLY
A. Offse B. Roya C. Appl D. Notifi E. Notifi F. Surfa G. For a	N REQUIRED TO: Check t operators or lease ho alty, overriding royalty of ication requires publish ication and/or concurr ication and/or concurr ce owner Il of the above, proof of otice required	olders owners, revenue o ned notice ent approval by S rent approval by E	wners SLO BLM	Notice Complete Application Content Complete
administrative understand t	N: I hereby certify that e approval is accurate hat no action will be ta are submitted to the Di	and complete to ken on this applic	the best of my kn	owledge. I also
ı	Note: Statement must be compl	eted by an individual wi	th managerial and/or su	pervisory capacity.
			D-+-	
			Date	
Print or Type Name				
Allas	Ver		Phone Numbe	r
Signature	ru —		e-mail Address	
. <u> </u>				

<u>District I</u> 1625 N. French Drive, Hobbs, NM 88240

<u>District II</u> 811 S. First St., Artesia, NM 88210

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-107A Revised August 1, 2011

APPLICATION TYPE

__Single Well
__Establish Pre-Approved Pools
EXISTING WELLBORE

1220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR	DOWNHOLE COMMINGLING	G <u>X</u> YesNo
Hilcorp Energy Company Operator		Aztec, NM 87410 ddress	
Atlantic D Com		36, 31N, 10W	San Juan
Lease	Well No. Unit Lette	er-Section-Township-Range	County
OGRID No. <u>372171</u> Property Code	2318866 API No. 30-045-229	978 Lease Type: Federal>	StateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Basin Fruitland Coal		Blanco Mesaverde
Pool Code	71629		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2800 – 3392 Estimated		4175 - 5971
Method of Production	New Zone		Artificial Lift
(Flowing or Artificial Lift) Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the	876		568
oil Gravity or Gas BTU	1123 BTU		1210 BTU
(Degree API or Gas BTU) Producing, Shut-In or	New Zone		Producing
New Zone Date and Oil/Gas/Water Rates of	Date:	Date:	Date:
Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates:	Rates: Gas: 1941 MCF
			Oil: 7 BBL Water: 14 BBL
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	See Attachments	% %	See Attachments
	ADDITIO	ONAL DATA	
Are all working, royalty and overriding if not, have all working, royalty and ov			Yes No X Yes X
Are all produced fluids from all commi	ngled zones compatible with each	h other?	YesX No
Will commingling decrease the value o	f production?		Yes NoX
f this well is on, or communitized with or the United States Bureau of Land Ma			YesX No
NMOCD Reference Case No. applicable	le to this well:		
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or or the comments of the comming of the comments of the comming of the comments of the com	at least one year. (If not available ry, estimated production rates and or formula.	e, attach explanation.) I supporting data. for uncommon interest cases.	
	PRE-APPR	ROVED POOLS	
If application is	to establish Pre-Approved Pools,	the following additional information w	vill be required:
List of other orders approving downhol List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	d Pre-Approved Pools		
•	n above is true and complete to	o the best of my knowledge and bel	ief.
SIGNATURE Abelia		Operations/Regulatory Technician	
ГҮРЕ OR PRINT NAME <u>Amano</u>	la Walker	TELEPHONE NO. (<u>3</u>	46)237-2177

E-MAIL ADDRESS <u>mwalker@hilcorp.com</u>

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Difective 1-1-65

			All distances must	be from the outer bounder	ies of the Section.	· · · · · · · · · · · · · · · · · · ·	 	
Operator DLCO	እር ል ጥን የተነገ ል	T 0.40 00	N DA NEZ	Lease		\	Well No.	
EL PASO Unit Letter	NAT UKA Secti		Township	ATLANTIC D	COM (B-104	CO)	1A	
F		36	31N	104	_	luan		
Actual Footage L	ocation c) A.M.	1 200	San J	ANTI		
1825		from the Nor	th line on	a 1475	feet from the	West	•	
round Level Ele		Producing Fo		Pool	reet from the		line edicated Acreage:	
6633		Mesa V	erde	Blanco M	esa Verde		330,00	Acres
1. Outline	the acr	eage dedic	ated to the subject			marks on the		
	than o	ne lease is	dedicated to the w	•			•	o working
	commu	nitization,	different ownership i unitization, force-po answer is "yes," type	oling. etc?			all owners bee	n consoli-
If answe	er is "n	o," list the	owners and tract de	escriptions which ha	ve actually bee	en consolidat		
forced-p	ooling, d	or otherwise	ned to the well until e)or until a non-stand 78 Well Moved	lard unit, eliminatin _i	g such interest	s, has been a	approved by the	nitization, e Commis-
<u> </u>		XXXX					CERTIFICATION	···
IXIO	<u> </u>		XXXXXXXX	1			CERTIFICATION	
B-10	0400	18251				tained here best of my Name	ertify that the information is true and come knowledge and bel	plete to the ief.
14:	751		3021	 		Position	ng Clerk Natural	Gas Co
E-5	-	90					23, 1978	
			Sec 36					
		 D#		(Paris		shown on the notes of a under-my s is strum an	ertify that the whis plot was plotte ctual surveys mad upervision, and the discovered to the	d from field e by me or at the same
×		<u> </u>				knowledge	and belief.	
	B-1	0400-1				Registered in	19, 1978	er }
		: - 					Kerrar.	<i></i>
eased to Imag	ing: 19/	14/20227:1	23YPW			Certificate H	The state of the s	

District I

RIGODINETITE TO COLD TO SUBJECT NEWS 242:52:57 PM

Phone: (575) 393-6161 Fax: (575) 393-0720

<u>District II</u>

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**

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-22978	2. Pool Code 71629	3. Pool Name BASIN FRUITLAND COAL (GAS)
4. Property Code 318866	5. Property Name ATLANTIC D COM	6. Well No. 001A
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6528

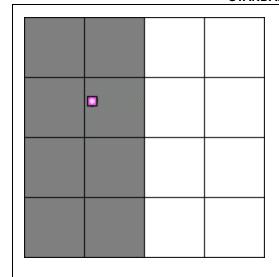
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	3	6 31N	10W		1825	N	1475	W	SAN
									JUAN

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	12. Dedicated Acres 320.00		13. Joint or Infill		14. Consolidatio	n Code		15. Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

Form C-102

August et 4201132

Permit 313204

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: A Wushler

Title: Operations Regulatory Tech Sr.

Date: 04/04/2022

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By:

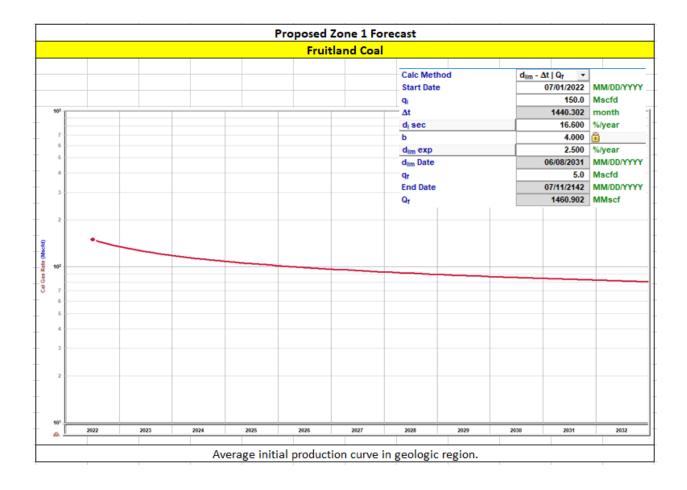
Fred Kerr

Date of Survey:

8/10/1978

Certificate Number:

3950



These zones are proposed to be commingled because the application of dual completions impedes the ability to produce the shallow zone without artificial lift and the deeper zones with reduced artificial lift efficiency. All horizons will require artificial lift due to low bottomhole pressure (BHP) and permeability.

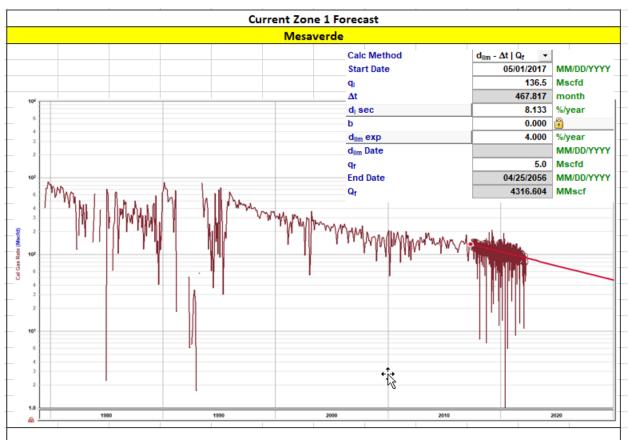
The BHPs of all zones, producing and non-producing, were estimated based upon basinwide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin. These models were constructed incorporating reservoir dynamics and physics, historic production, and observed pressure data. Historic commingling operations have proven reservoir fluids are compatible.

Production Allocation Method - Subtraction

Gas Allocation:

Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde and the added formation to be commingled is the Fruitland Coal. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the forecast will be allocated to the new formation.

After 3 years production will stabilize. A production average will be gathered during the 4th year and will be utilized to create a fixed percentage based allocation.



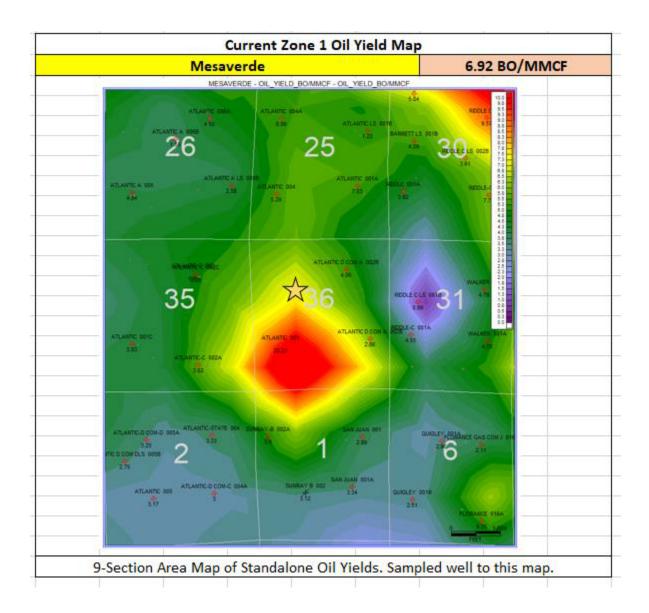
Oil Allocation:

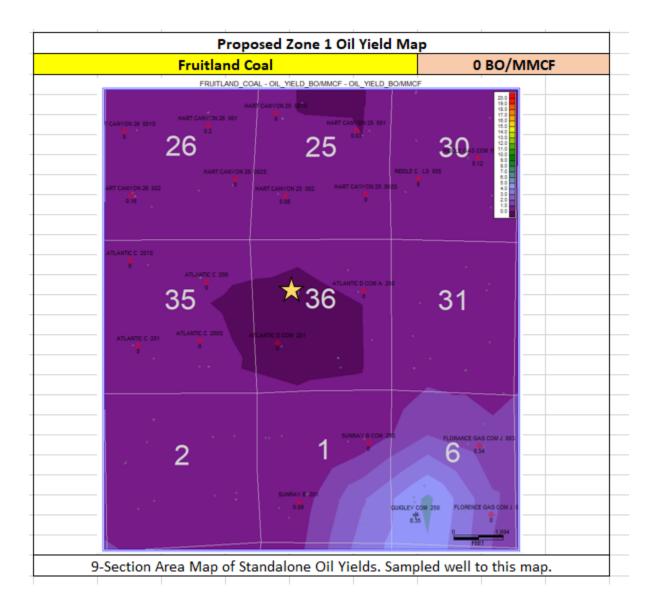
Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years.

After 4 years oil will be reevaluated and adjust as needed based on average formation yields and new fixed gas allocation.

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
MV	6.92	566	100%
FRC	0	917	0%
			100%

All documentation will be submitted to NMOCD.







May 4, 2022

Mailed Certified / Electronic Return Receipt Requested

To: ALL INTEREST OWNERS

RE: Application to Downhole Commingle Production

Well: ATLANTIC D COM #001A

API: 30-045-22978

Township 31 North, Range 10 West, Section 36

San Juan County, New Mexico

Ladies and Gentlemen:

Hilcorp Energy Company ("Hilcorp"), as Operator of the subject well, has filed application with the New Mexico Oil Conservation Division for approval to downhole commingle production from the **Fruitland Coal**, Hilcorp soon intends to perforate, with existing production from the **Mesaverde** formation. This letter and the application copy enclosed serve to provide you, an owner in one or more of the aforementioned formations, with written notice as prescribed by Subsection C of 19.15.12.11 New Mexico Administrative Code.

No action is required by you unless you wish to pursue a formal protest (see details italicized below).

If you no longer own an interest in this well or need to make changes to your address, etc., please email ownerrelations@hilcorp.com. For those without email access, please call (713) 209-2457.

Hilcorp is eager to explore this potential opportunity to enhance production. Thank you for your support.

Sincerely,

Robert Carlson Sr. Landman (832) 839-4596 rcarlson@hilcorp.com

RTC:dkp Enclosures

Protesting:

Protests must be in writing and received within twenty (20) days from the date of this letter. In your response, please include your contact information, details referenced herein and the specific concerns and/or reasoning behind your decision. You are encouraged to email me an electronic copy and, subsequently, mailing (overnight) a hard copy to my attention at the address in the footer below. Upon receipt, I will follow up by phone to discuss your concerns. Should we be unable to resolve them, a formal protest will be set for hearing with the New Mexico Oil & Conservation Division in Santa Fe, NM, wherein your attendance and testimony will be required.

1111 Travis Street Houston, Texas 77002 Phone: 713/209-2400

Certified Number	Sender	Recipient	Date Mailed	Delivery Status
92148969009997901811527691 <u>Request Signature</u> <u>via Email</u>	Dani Kuzma	, SILVERADO OIL and GAS LLP, , TULSA, OK, 74152-0308 Code: ATLANTIC D COM 1A DHC	5/4/2022	Delivered May 9, 2022 Signature Pending
92148969009997901811527707	Dani Kuzma	, PIONEER NATURAL RES USA INC, KATHY NAVARRETE, MIDLAND, TX, 79702 Code: ATLANTIC D COM 1A DHC	5/4/2022	Delivered, Individual Picked Up at Postal Facility May 9, 2022 Signature Pending
92148969009997901811527714 <u>Request Signature</u> <u>via Email</u>	Dani Kuzma	, STATE OF NEW MEXICO, BATAAN MEMORIAL BUILDING, SANTA FE, NM, 87501 Code: ATLANTIC D COM 1A DHC	5/4/2022	Delivered, Front Desk/Reception/Mail Room May 9, 2022 Signature Pending
92148969009997901811527721 <u>Request Signature</u> <u>via Email</u>	Dani Kuzma	, MESA ROYALTY TRUST, ATTN NEW MEXICO PROPERTIES, BARTLESVILLE, OK, 74004 Code: ATLANTIC D COM 1A DHC	5/4/2022	Delivered, Individual Picked Up at Postal Facility May 16, 2022 Signature Pending
92148969009997901811527738 <u>Request Signature</u> <u>via Email</u>	Dani Kuzma	, SIMCOE LLC, , HOUSTON, TX, 77002- 5632 Code: ATLANTIC D COM 1A DHC	5/4/2022	Delivered, Left with Individual May 7, 2022 Signature Pending

NEW MEXICO STATE LAND OFFICE Guidelines for Requesting Commingling Approval

- 1. A commingling agreement from the New Mexico State Land Office is not required if the commingling operation does not contain New Mexico State Trust acreage.
- 2. If State Trust acreage will be part of a proposed commingling operation:
 - a. Commingling of production of all wells from the same pool within a single lease, communitized area, or unit area is permitted without additional Land Commissioner approval.
 - b. Surface commingling (including off-lease storage) from more than one pool, and/or from more than one lease, communitized area, unit area, or a combination of leases/communitized areas/unit areas, requires additional Land Commissioner approval.
 - c. Downhole commingling of multiple producing pools in a single well bore requires Land Commissioner approval unless the pools or the area in which the well is located are listed as pre-approved in NMAC 19.15.12.11(E).

The attached application form describes the process for submitting a commingling application to the New Mexico State Land Office.

NEW MEXICO STATE LAND OFFICE

APPLICATION FOR

COMMINGLING AND OFF-LEASE STORAGE



ON STATE TRUST LANDS

This application form is required for all commingling applications requiring approval by the Commissioner of Public Lands.

Applicant: Hilcor	rp Energy Company	OGRID #: 372171
Well Name: Atlar	ntic D Com 1A	API #: 30-045-22978
Pool: Basin Fru	itland Coal	Δ1π.
OPERATOR NAME:	Hilcorp Energy Company	
OPERATOR ADDRESS	1111 Travis St. Houston TX 77002	

APPLICATION REQUIREMENTS - SUBMIT:

- 1. New Mexico Oil Conservation Division (NMOCD) application packet (or equivalent information if no application is required by NMOCD),
- 2. Commingling application fee of \$150.

CERTIFICATION: To the best of my knowledge,

- All business leases and rights-of-way necessary for conducting the proposed operation on State Trust lands have been applied for or obtained,
- The information submitted with this application is accurate and complete, and
- No loss will accrue to the state of New Mexico as a result of the proposed operation.

I also understand that **no action** will be taken on this application until the required information and fee are submitted to the State Land Office.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Amanda Walker	
Print or Type Name	346-237-2177
Signature	Phone Number
05/04/2022	mwalker@hilcorp.com
Date	e-mail Address

Submit application to:

Commissioner of Public Lands Attn: Commingling Manager PO Box 1148 Santa Fe, NM 87504-1148 Questions?
Contact the Commingling Manager: 505.827.5791

Upon approval, the requesting organization will receive an acknowledgment letter from the Commissioner of Public Lands.

Mandi Walker

From: TrackingUpdates@fedex.com
Sent: Thursday, May 12, 2022 10:14 AM

To: Mandi Walker

Subject: [EXTERNAL] FedEx Shipment 776821048763: Your package has been delivered



Hi. Your package was delivered Thu, 05/12/2022 at 9:09am.



Delivered to 310 OLD SANTA FE TRL, SANTA FE, NM 87501 Received by S.ARMIJO

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER <u>776821048763</u>

FROM Hilcorp Energy Company

1111 TRAVIS ST.

12th Floor

HOUSTON, TX, US, 77002

TO Commissioner of Public Lands

Attn: Commingling Manager

310 Old Santa Fe Trail SANTA FE, NM, US, 87501

SHIP DATE Tue 5/10/2022 03:00 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN HOUSTON, TX, US, 77002

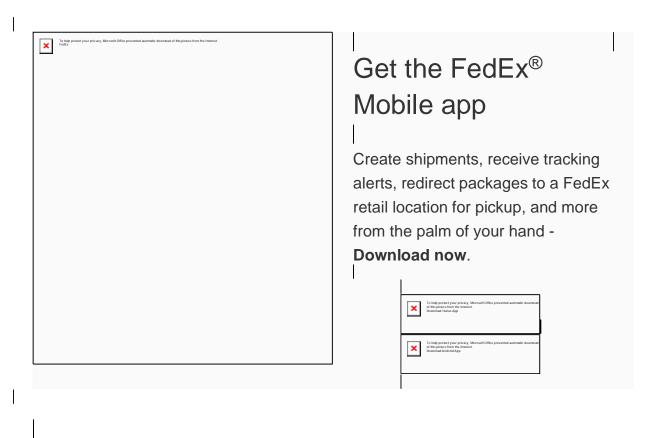
DESTINATION SANTA FE, NM, US, 87501

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 1.00 LB

SERVICE TYPE FedEx Express Saver



2

FOLLOW FEDEX



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All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

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Thank you for your business.

Received by OCD: 5/27/2022 12:52:57	State of New M	exico		Form C-103
Office <u>District I</u> – (575) 393-6161	Energy, Minerals and Nati			vised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	OH CONCEDUATION	I DIMIGION	WELL API NO. 30-045-22978	
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION 1220 South St. Fra		5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460	Santa Fe, NM 8		STATE State Oil & Gas Lease	FEE No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	2 2, 3	,	E-5385-NM	140.
		UG BACK TO A	7. Lease Name or Unit As Atlantic D Com	greement Name
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🛛 Other		8. Well Number 1A	
2. Name of Operator			9. OGRID Number	
HILCORP ENERGY COMPAN 3. Address of Operator	Y		372171 10. Pool name or Wildcat	
382 Road 3100, Aztec, NM 8741	0		Blanco MV/Basim FC / B	
4. Well Location			I	
Unit Letter F :	1825 feet from the No			
Section 36 To	ownship 31N Range 10 11. Elevation (Show whether DR		MPM San Juan Cou	nty
	6528			
12 Charle A	annomisto Don to Indicate N	Intrana of Nighting	Danast an Othan Data	
12. Check A	ppropriate Box to Indicate N		•	
NOTICE OF INT PERFORM REMEDIAL WORK ☐		SUB:	SEQUENT REPORT	OF: ING CASING □
TEMPORARILY ABANDON	PLUG AND ABANDON L CHANGE PLANS	COMMENCE DRI	 -	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN		_
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM ☐ OTHER: ☐ F	Recomplete	OTHER:		П
	eted operations. (Clearly state all		d give pertinent dates, includ	ling estimated date
of starting any proposed wor	ck). SEE RULE 19.15.7.14 NMA			
proposed completion or reco	ompletion.			
Hilcorp Energy Company requests to				
Coal and downhole commingle with the A closed loop system will be used.	the existing Mesaverde. Please se	e the attached proced	dure, current and proposed v	vellbore diagram.
A closed loop system will be used.				
Spud Date:	Rig Release D	ate:		
71 1 10 1 1 1 0			11 11 0	
I hereby certify that the information a	bove is true and complete to the b	est of my knowledge	e and belief.	
SIGNATURE AWARE	TITLE Operations/Regul	atory Technician – S	rDATE <u>4/12/2022</u>	
Type or print name Amanda V	Walker E-mail address:	mwalker@hilcorp.c	om PHONE: <u>346-237-217</u>	7
For State Use Only	0.4/			
APPROVED BY:	TITLE Pe	troleum Specialis	t DATE 04/	13/2022
Conditions of Approval (if any):				



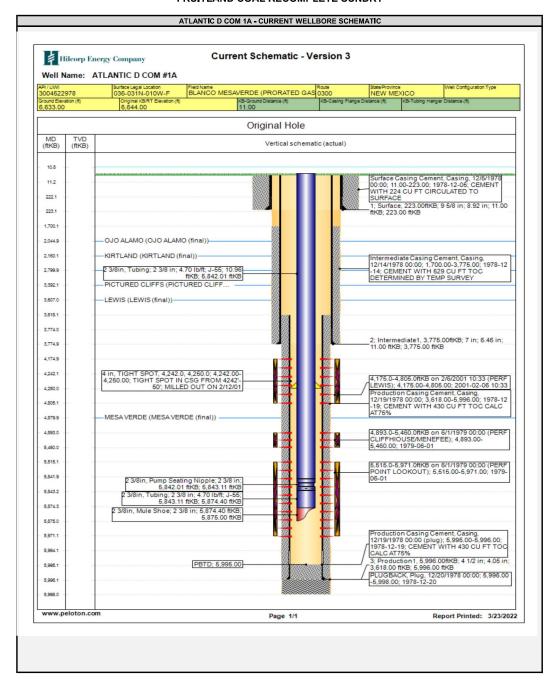
HILCORP ENERGY COMPANY ATLANTIC D COM 1A FRUITLAND COAL RECOMPLETE SUNDRY API 3004522978

JOB PROCEDURES

- 1. MIRU workover rig and associated equipment; NU and test BOP.
- 2. TOOH with 2 3/8" tubing set at 5,875'.
- 3. Set a 4-1/2" bridge plug at +/- 4,135' to isolate the Lewis and Mesaverde (top perf: 4,175').
- Run a CBL from liner top (3,618') to surface. Verify cement bond across the Fruitland Coal formation; confirm cement top and bottom behind the 7"
 production casing. Review CBL results with engineering/NMOCD and perform cement remediation, if required. IF TOC IS > PROPOSED PERF
 INTERVAL, CEMENT REMEDIATION IS NOT NECESSARY.
- If necessary, pressure test any remedial cement squeeze work to 560 psi for 30 minutes as official MIT on bridge plug isolating Lewis/MV. Notify NMOCD 24 hours prior to any MIT work.
- 6. Set a bridge plug at base of frac, directly below perf interval at +/- 3,400'. Pressure test.
- 7. RU WL and perforate the Fruitland Coal (Perf interval: 2,800'-3,392').
- 8. RIH w/ packer and acidize Fruitland Coal perfs.
- 9. RIH w/ frac string & packer. Set packer at +/- 2,700'.
- 10. ND BOPs, NU frac stack.
- 11. Frac the Fruitland Coal down the frac string.
- 12. Flowback the Fruitland Coal until pressures diminish. Get a Fruitland Coal only flow rate.
- 13. MIRU workover rig. ND frac stack, NU BOP, and test.
- 14. Release packer and POOH w/ frac string.
- 15. TIH w/ mill and cleanout to first plug at base of frac.
- Drillout frac plug and cleanout to isolation plug at 4,135' and circulate wellbore clean, TOOH w/ cleanout assembly. TIH with 2-3/8" production tubing (if C107A to commingle is not approved yet).
- 17. When C107A is approved, drillout isolation plug and cleanout to PBTD of 5,995'. TOOH w/ cleanout assembly.
- 18. TIH and land 2-3/8" production tubing. ND BOPs and NU tree.
- 19. RDMO. Get an FRC/Lewis/MV flow rate.

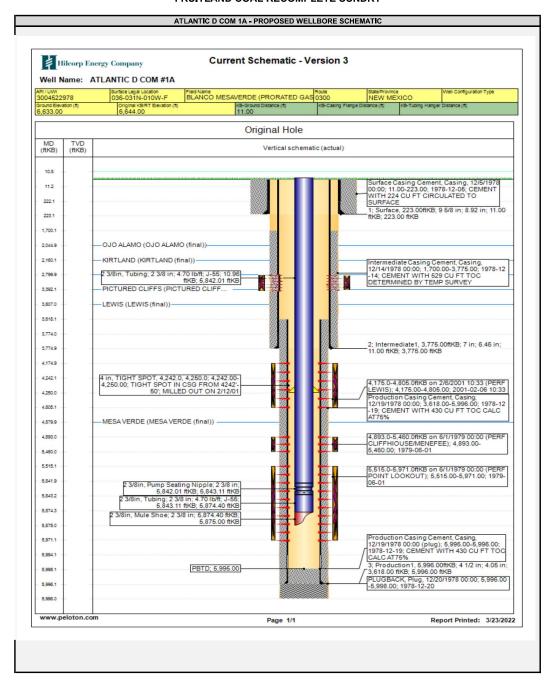


HILCORP ENERGY COMPANY ATLANTIC D COM 1A FRUITLAND COAL RECOMPLETE SUNDRY





HILCORP ENERGY COMPANY ATLANTIC D COM 1A FRUITLAND COAL RECOMPLETE SUNDRY



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

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 97726

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97726
	Action Type:
	[C-103] NOI Recompletion (C-103E)

CONDITIONS

Created By		Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	4/13/2022

C-107A Pressure Revision: ATLANTIC D COM #001A (3004522978)

Reservoir	Originally Submitted Pressure	Revised Bottom Hole Pressure
Fruitland Coal	876	104
Mesaverde	568	194

The pressures originally provided were calculated far-field stabilized reservoir pressures based on a moving domain material balance simulation. The near wellbore shut-in bottom hole pressures of the Fruitland Coal and Mesaverde are much lower than the calculated far-field stabilized reservoir pressured due to the low permeability of the reservoirs. Based on pressure transient analysis performed in the San Juan Basin, it would take 7-25 years for shut-in bottom hole pressures to build up to the calculated far-field reservoir pressure. Our observation is that even for areas of high static reservoir pressures, the low permeability of the reservoir rock results in rapid depletion of the near-fracture region, quickly enough that the wells are unable to produce without the aid of a plunger. Given low permeabilities and low wellbore flowing pressures in the Fruitland Coal and Mesaverde loss of reserves due to cross-flow is not an issue during producing or shut-in periods. Given low shut-in bottom hole pressures, commingling the Fruitland Coal and Mesaverde in this well will not result in shut-in or flowing wellbore pressures in excess of any commingled pool's fracture parting pressure. The pressures provided in the revised C-107A are based on shut-in bottom hole pressures of offset standalone wells which match expected near-wellbore shut-in bottom hole pressures of this proposed commingled completion.

The **State Com H 4A** and **Atlantic D Com 1A** are within the same geologic region, so the gas and water samples seen below will be used for both DHCs.

Water Compatibility in the San Juan Basin

- The San Juan basin has productive siliciclastic reservoirs (Pictured Cliffs, Blanco Mesaverde, Basin Dakota, etc.) and a productive coalbed methane reservoir (Basin Fruitland Coal).
- These siliciclastic and coalbed methane reservoirs are commingled extensively throughout the basin in many different combinations with no observed damage from clay swelling due to differing formation waters.
- The Basin Fruitland Coal, Blanco Mesaverde, and Blanco Pictured Cliffs a samples below all show fresh water with low TDS.

PC	Gas Analysis						
AssetCode	AssetName	BTUWet	BTUDry	SpecificHeatRatio	Viscosity	SpecificGravity	CO2
3004521333	ATLANTIC D COM O 16	1118	1137			0.65	0.01
PC	Water Analysis						
API	Property	CationBarium	CationBoron	CationCalcium	CationIron	CationMagnesiur	CationManganese
3004521333	ATLANTIC D COM O 16	0		8.04	93	4.88	1.38
MV	Gas Analysis						
AssetCode	AssetName	BTUWet	BTUDry	SpecificHeatRatio	Viscosity	SpecificGravity	CO2
3004528933	ATLANTIC 5R	1198	1219			0.72	0.02
MV	Water Analysis						
API	Property	CationBarium	CationBoron	CationCalcium	CationIron	CationMagnesiur	CationManganese
3004528933	ATLANTIC 5R	0.16		3.15	82.33	0.35	0.68
FRC	Gas Analysis						
AssetCode	AssetName	BTUWet	BTUDry	SpecificHeatRatio	Viscosity	SpecificGravity	CO2
3004527307	LAMBE COM 200	1104	1124			0.64	0.01
FRC	Water Analysis						
API	Property	CationBarium	CationBoron	CationCalcium	CationIron	CationMagnesiur	CationManganese
3004527307	LAMBE COM 200	0.53		14.7	181	. 2	2.25

N2	C1	C2 0.88	C3 0.06	0.03	ISOC4	NC4 0	0.01	ISOC5	NC5 0	NEOC5 0
CationPhosphorus	CationPotassium	n CationStronti	um CationSodiı 0.11	um 143.54	CationSilica	Catio	nZinc	CationAlu	mi CationCopper	CationLead
N2	C1)	C2 0.82	C3 0.09	0.04	ISOC4	NC4 .01	0.01	ISOC5	NC5 0	NEOC5 0
CationPhosphorus	CationPotassium	n CationStronti		um 152.46	CationSilica	Catio	nZinc	CationAlu	mi CationCopper	CationLead
N2	C1)	C2 0.9	C3 0.06	0.03	ISOC4	NC4 0	0	ISOC5	NC5 0	NEOC5 0
CationPhosphorus	CationPotassium	CationStronti	um CationSodio	um 20	CationSilica 2	Catio 1.4	nZinc 2.48		mi CationCopper	CationLead

C6	C6_PLUS	C7	C8	C9	C10	AR	CO	H2	
		0							
CationLi	thiun CationNickel	CationCobalt	CationChrom	iu CationSilicon	CationMol	ybde AnionChloride	AnionCa	rbonate AnionBic	arbonate
							0	0	183.3
C6	C6_PLUS	C7	C8	C9	C10	AR	CO	H2	
CationLi	thiun Cation Nickel	CationCobalt	CationChrom	iu CationSilicon	CationMol	ybde AnionChloride	AnionCa	rbonate AnionBic	arbonate
							199	0	73.2
		-							
C6	C6_PLUS	C7	C8	C9	C10	AR	CO	H2	
		0							
CationLi	thiun CationNickel	CationCobalt	CationChrom	iu CationSilicon	CationMol	ybde AnionChloride	AnionCa	rbonate AnionBic	arbonate
					10		22.8	10	150

02	H20	H2S	
			0

AnionBromide	AnionFluoride	AnionHydroxyl	AnionNitrate	AnionPhosphat AnionSulfate	phField	phCalculated TempField
					0	5.23

02	H20	H2S	
			0

AnionBromide	AnionFluoride	AnionHydroxyl	AnionNitrate	AnionPhosphat AnionSulfate	phField	phCalculated	TempField
		()		1	7	53

02	H20	H2S	
			0

AnionBromide	AnionFluoride	AnionHydroxyl	AnionNitrate	AnionPhosphat AnionSulfate	phField	phCalculated	TempField
		10		7	.38	7.04	1

TempLab	OtherField OtherSpecificGravity	OtherTDS		OtherCaCO3	OtherConduct DissolvedCO2	DissolvedO2	DissolvedH2S
		L	634.14	40.11		200	0

TempLab	OtherField OtherSpecificGravity	OtherTDS	OtherCaCO3	OtherConduct DissolvedCO2	DissolvedO2	DissolvedH2S
	<u>-</u>	1 512.9	<mark>)7</mark>	801.51	40	0

TempLab	OtherField OtherSpecificGravity	OtherTDS	OtherCa	CO3 OtherCo	nduct DissolvedCO2	DissolvedO2	DissolvedH2S
	1	. 7	<mark>'00</mark>	36.7	272		

From: McClure, Dean, EMNRD on behalf of Engineer, OCD, EMNRD

To: Mandi Walker; Kandis Roland

Cc: McClure, Dean, EMNRD; Wrinkle, Justin, EMNRD; Powell, Brandon, EMNRD; lisa@rwbyram.com; Dawson, Scott

Subject: Approved Administrative Order DHC-5204

Date: Friday, October 14, 2022 1:06:52 PM

Attachments: DHC5204 Order.pdf

NMOCD has issued Administrative Order DHC-5204 which authorizes Hilcorp Energy Company (372171) to downhole commingle production within the following well:

Well API: Atlantic D Com #1A
Well API: 30-045-22978

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING SUBMITTED BY HILCORP ENERGY COMPANY

ORDER NO. DHC-5204

ORDER

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the Engineering Bureau, issues the following Order.

FINDINGS OF FACT

- 1. Hilcorp Energy Company ("Applicant") submitted a complete application ("Application") to downhole commingle the pools described in Exhibit A ("the Pools") within the well bore of the well identified in Exhibit A ("the Well").
- 2. Applicant proposed a method to allocate the oil and gas production from the Well to each of the Pools that is satisfactory to the OCD and protective of correlative rights.
- 3. Applicant has certified that the proposed commingling of the Pools shall not result in shutin or flowing well bore pressure in excess of the commingled pool's fracture parting pressure.
- 4. Applicant has certified that all produced fluids from all the Pools are compatible with each other.
- 5. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
- 6. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that ownership in the Pools is identical as defined by 19.15.12.7(B) NMAC.
- 7. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools, provided evidence a copy of the Application was given to each person, and those persons either submitted a written waiver or did not file an objection to the Application.
- 8. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.

CONCLUSIONS OF LAW

- 9. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-6, 70-2-11, 70-2-12, 70-2-16, 70-2-17, and 19.15.12 NMAC.
- 10. The downhole commingling of the Pools is common, or Applicant has provided evidence that the fluids are compatible and will not damage the Pools in accordance with 19.15.12.11(A)(1) NMAC.

Order No. DHC-5204 Page 1 of 3

- 11. The bottom perforation of the lower zone is within one hundred fifty percent (150%) of the depth of the top perforation in the upper zone or Applicant has provided evidence that the proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure in excess of the commingled pool's fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.
- 12. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
- 13. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools and provided evidence the application was given to those persons in accordance with 19.15.12.11(C)(1)(b) NMAC.
- 14. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

- 1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
- 2. Applicant shall allocate a fixed percentage of the oil production from the Well to each of the Pools until a different plan to allocate oil production is approved by OCD. Of the oil production from the Well:
 - a. zero percent (0%) shall be allocated to the BASIN FRUITLAND COAL (GAS) pool (pool ID: 71629); and
 - b. one hundred percent (100%) shall be allocated to the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319).

Applicant shall allocate gas production to the new pool(s) equal to the total gas production from the Well minus the projected gas production from the current pool(s) until a different plan to allocate gas production is approved by OCD. The new pool(s) are:

a. the BASIN FRUITLAND COAL (GAS) pool (pool ID: 71629).

The current pool(s) are:

a. the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319).

Applicant shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, Applicant shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If Applicant fails to do so, this Order shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Order shall terminate on the date of such action. If OCD approves the percentage allocation plan with or without modifications, then the approved percentage allocation plan shall be used to

Order No. DHC-5204 Page 2 of 3

- determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.
- 3. If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Order to become inaccurate, then no later than sixty (60) days after that event, Applicant shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Order shall terminate on the date of such action.
- 4. If any of the pools being commingled is prorated, or the Well's production has been restricted by an OCD order in any manner, the allocated production from each producing pool in the commingled well bore shall not exceed the top oil or gas allowable rate for a well in that pool or rate restriction applicable to the well.
- 5. If the Well is deepened, then no later than forty-five (45) days after the Well is deepened, Applicant shall conduct and provide logs to OCD that are sufficient for OCD to determine which pool(s) each new completed interval of the Well will produce from.
- 6. If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new downhole commingling application to OCD to amend this Order to remove the pool that caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
- 7. If a completed interval of the Well is altered from what is submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after the alteration, Applicant shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.
- 8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
- 9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

DATE: 10/13/2022

ADRIENNE E. SANDOVAL

DIRECTOR

Order No. DHC-5204 Page 3 of 3

State of New Mexico Energy, Minerals and Natural Resources Department

Exhibit A

Order: DHC-5204

Operator: Hilcorp Energy Company (372171)

Well Name: Atlantic D Com #1A

Well API: 30-045-22978

Pool Name: BASIN FRUITLAND COAL (GAS)

Upper Zone Pool ID: 71629 Current: New: X
Allocation: Oil: 0% Gas:

Interval: Perforations Top: 2,800 Bottom: 3,392

Pool Name:

Intermediate Zone Pool ID: Current: New: Allocation: Oil: Gas:

Interval: Top: Bottom:

Bottom of Interval within 150% of Upper Zone's Top of Interval:

Pool Name: BLANCO-MESAVERDE (PRORATED GAS)

Lower Zone Pool ID: 72319 Current: X New:
Allocation: Oil: 100% Gas:

Interval: Perforations Top: 4,175 Bottom: 5,971

Bottom of Interval within 150% of Upper Zone's Top of Interval: NO

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

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 111647

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	111647
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure		