RECEIVED:	REVIEWER:	TYPE:	APP NO:	
	- Geologic	ABOVE THIS TABLE FOR OCD DIV O OIL CONSERVA cal & Engineering ancis Drive, Santa	TION DIVISION Bureau -	CONCEPTION OF MENT
THIS C	HECKLIST IS MANDATORY FOR AL	ATIVE APPLICATIC LADMINISTRATIVE APPLICAT QUIRE PROCESSING AT THE D	IONS FOR EXCEPTIONS TO DIVISI	ON RULES AND
	Energy Company	/ Blanco Mesaverde	OGRID Nu API: <u>30-045-</u> Pool Code ED TO PROCESS THE TY	<u>2: 71629, 71280, 72319</u>
A. Location	CATION: Check those N – Spacing Unit – Simult ISL NSP(PRO ne only for [1] or [11] mingling – Storage – Mo DHC CTB PL tion – Disposal – Pressu	which apply for [A] aneous Dedication DJECT AREA) NSF easurement .C PC 01	(proration unit) SD	
A. Offset B. Royalt C. Applic D. Notific E. Notific F. Surfac G. For all	WFX PMX SW REQUIRED TO: Check to operators or lease hold y, overriding royalty over ation requires published ation and/or concurred ation and/or concurred of the above, proof of tice required	those which apply. ders vners, revenue owr ed notice ent approval by SLC ent approval by BLN	ners	FOR OCD ONLY Notice Complete Application Content Complete
administrative understand the	I: I hereby certify that t approval is accurate a at no action will be tak re submitted to the Div	and complete to th en on this applicat	e best of my knowled	lge. I also

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

Cherylene Weston

Print or Type Name

4/19/2024

Date

713-289-2614

Phone Number

Cherylene Weston

Signature

cweston@hilcorp.com e-mail Address

District I 1625 N. French Drive, Hobbs, NM 88240

District II 811 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

F J Titt

Lease

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised August 1, 2011

Page 2 of 36

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

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE <u>X</u>Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Hilcorp Energy Company	
Operator	

Address

2A O-35-T31N-R11W San Juan County, NM Well No. Unit Letter-Section-Township-Range County

382 Road 3100, Aztec, NM 87410

OGRID No. 372171 Property Code 319359 API No. 30-045-22914 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Basin Fruitland Coal	Aztec Pictured Cliffs	Blanco Mesaverde		
Pool Code	71629	71280	72319		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2004' - 2397'	2400' - 2519'	4501' - 4807'		
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	105 psi	95 psi	276 psi		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1068 BTU	1143 BTU	1228 BTU		
Producing, Shut-In or New Zone	NEW ZONE	Producing	Producing		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates:	2/1/2024 Date: Oil - 3 bbl Rates: Gas - 110 mcf Water - 3 bbl	Date: 12/1/2024 Rates: Oil - 0 bbl Gas - 991 mcf Water - 3 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.)	% %	% %	% %		

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes	<u>X</u>	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes	Χ	No
Will commingling decrease the value of production?	Yes		No_X
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes	<u>X</u>	No
NMACD Deferring Const Network in the shear will			

NMOCD Reference Case No. applicable to this well:

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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1 110	neog	conting	unu	une i	morme	teron i	40010	10 010	ie una	com	51010 10	, 1110	0000	ormy	1110 111	case	unu	oun	U 1.

SIGNATURE Cherylene	Weston TITLE Ope	rations/Regulatory Tech-Sr.	DATE	4/19/2024
TYPE OR PRINT NAME Che	rylene Weston	TELEPHONE NO. (7	/13) 2	89-2615

E-MAIL ADDRESS_ cweston@hilcorp.com

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

Form C-102 August 1, 2011 Permit 355335

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name							
30-045-22914	71629	BASIN FRUITLAND COAL (GAS)							
4. Property Code	5. Property Name	6. Well No.							
319359	F J TITT	002A							
7. OGRID No. 372171									
10. Surface Location									

	UL - Lot	Section		Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
	0	:	35	31N	11W		910	S	1460	E	SAN JUA	١N
- 1												

	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 A 320		1	13. Joint or Infill		14. Consolidatio	n Code	I	15. Order No.	. <u> </u>

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 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: Cherylene Weston
Title: Cherylene Weston
Date: 12/7/2023
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 B. Kerr, Jr.
Date of Survey: 12/15/1977
Certificate Number: 3950

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. .

NEW MEXICO OIL CONSERVATION COMMISSION

	All dista	nces must be from the outer bour	daries of the Section.		
erator		Lease		Tor .	Well Nc. /
OUTHLAND ROY		F. J. 7	County	Chin and	2-4
t Letter Sec	tion Township 35 3	1N Range 11W	San	Juan	
U Jual Footage Location			I		
010	et from the South	line and 1460	feet from the	East	line
und Level Elev.	Producing Formation	s Pool Blanco		De	dicated Acreage: 160/320 Ac
5806'	Pictured Cliff				
1. Outline the a	creage dedicated to the	e subject well by colored	pencil or hachure r	narks on the	plat below.
interest and r	oyalty).	l to the well, outline each			
3. If more than of dated by comm	nunitization, unitization	wnership is dedicated to th , force-pooling.etc? 'yes,'' type of consolidatio		iterests of a	II owners been conso
If answer is ' this form if ne	"no," list the owners an	nd tract descriptions which		n consolidate	d. (Use reverse side
No allowable	will be assigned to the	well until all interests hav non-standard unit, elimina	e been consolidate ting such interests	ed (by commu s, has been a	nitization, unitization pproved by the Comm
S10n.					
	1				LERTIFICATION
				l hereby cer	tify that the information o
	1			tained herei	n is true and complete to
	1			best of my k	nowledge and belief.
	1			(1)	Parm.
	•				- and
	1			Name	
	-+				r so ns
	 			C. C. Pa Position	1
	- +			C.C.Pa Position District	1
				C. C. Pa Position District Compony	Production Man
				C. C. Pa Position District Compony	Production Man
				C. C. Pa Position District Company Southlan	Production Man d Royalty Compa
				C. C. Pa Position District Company Southlan Date	Production Man d Royalty Compa
				C. C. Pa Position District Compony Southlan Date July 6,	Production Man d Royalty Compa 1982
				C. C. Pa Position District Company Southlan Date July 6,	Production Man d Royalty Compa 1982 ertify that the well loca
				C. C. Pa Position District Company Southlan Date July 6, I hereby company shown on the	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from t
				C. C. Pa Position District Company Southlan Date July 6, I hereby c shown on th notes of ac	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from t tual surveys made by m
				C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on the notes of ac under my su	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by m upervision, and that the s
 AGL				C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on the notes of ac under my su	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by m upervision, and that the s d correct to the best of
	_ <u> </u>			C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on th notes of ac under my su is true and	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by mu opervision, and that the s d correct to the best of
	54 EU FOR RECORD JUL 10 1382	<u>SF-0781</u> 115		C. C. Pa Position District Company Southlan Date July 6, I hereby c. shown on th notes of ac under my su is true and knowledge of	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by mu pervision, and that the s d correct to the best of and belief.
	JUI 10 1382	SF-0781115	1460'	C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on th notes of ac under my su is true and	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by mu pervision, and that the s d correct to the best of and belief.
	JUI 10 1382	SF-0781 ¹ 15		C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on th notes of ac under my su is true and knowledge of Date Surveyed	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by m upervision, and that the s d correct to the best of and belief.
	_ <u> </u>	SF-0781115		C. C. Pa Position District Company Southlan Date July 6, I hereby co shown on th notes of ac under my su is true and knowledge of Date Surveyed	Production Man d Royalty Compa 1982 ertify that the well loca is plat was plotted from f tual surveys made by mu pervision, and that the s d correct to the best of and belief.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

			AND ACREAGE DED		Effective 1-1-65
		All distances must l	be from the outer boundaries	of the Section.	Well No.
SOUTHLAND	ROYALTY CC	MPANY	F. J. Titt		2A
	Section	Township	Range	County	
0 In the Footage Loca	35	311/	<u> </u>	San Jua	an
911 Postaja 1100a 910		uth line a		feet from t - Eas	at line
in i Lyvel Llev.	Pri duying Por		Poel		Dedicated Acreage:
5806	Mesa Ve		Blar well by colored penci		320 Acres
dated by co Yes If answer is	n one lease of di mmunitization, u No If an	nitization, force-po swer is ''yes,'' typ	oling. etc? e of consolidation		consolidated. (Use reverse side o
No allowabl	le will be assigne				(by communitization, unitization has been approved by the Commis- CERTIFICATION
	 		JAN 17 OL UNE DIST		I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief.
		Sec			
	 				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 knowledge and belief.
0			0 11.60	R	December 15, 1977 December 15, 1977 Registered Protossional Engineer adfor Land Surveyor Fred B. Korr Jr.
					ertificate No: 3950

The near wellbore shut-in bottom hole pressures of the above reservoirs 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 above reservoirs, loss of reserves due to cross-flow is not an issue during producing or shut-in periods. Given low shut-in bottom hole pressures in excess of any commingled pool's fracture parting pressure. The pressures provided in the 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.

Note: BTU Data taken from standalone completions in the zone of interest within a 2 mile radius of the well.

A farther radius is used if there is not enough data for a proper statistical analysis.

F J Titt 2A Production Allocation

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 basin wide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin, in conjunction with shut-in pressure build-ups. 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:

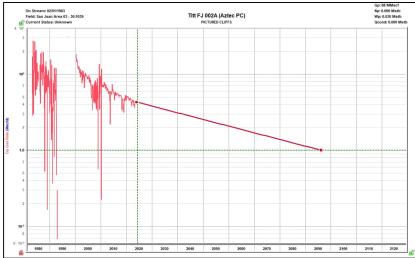
Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde/Pictured Cliffs and the added formation to be commingled is the Fruitland Coal. The subtraction method applies an average monthly production forecast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



Current Zone 1 Forecast – Mesaverde

Current Zone 2 Forecast – Pictured Cliffs



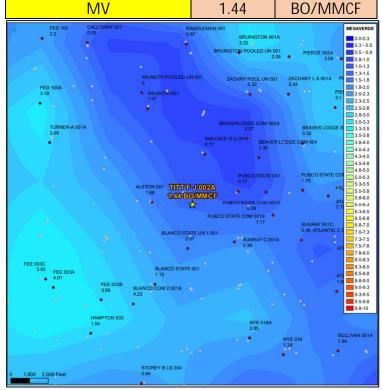
Proposed Zone Forecast – Fruitland Coal

Average initial production curve in geologic region.

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 adjusted as needed based on average formation yields and new fixed gas allocation.

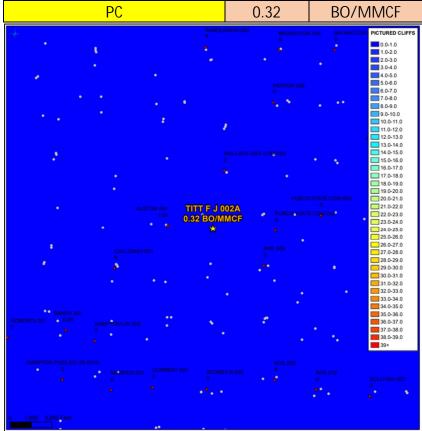
Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
MV	1.44	241	100%
FRC	0	2002	0%
PC	0.32	0	0%



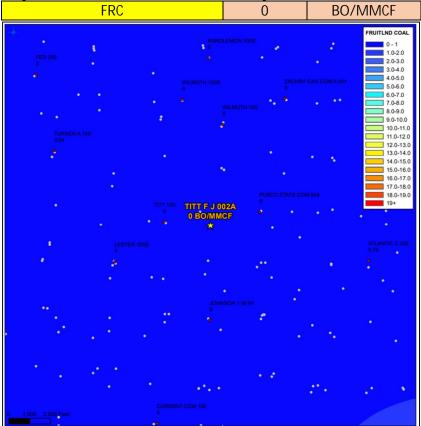
Current Zone 1 – Mesaverde Oil Yield Map

9-Section Area Map of Standalone Oil Yields. Sampled well to this map.

Current Zone 2 – Pictured Cliffs Oil Yield Map



Proposed Zone – Fruitland Coal Oil Yield Map



9-Section Area Map of Standalone Oil Yields. Sampled well to this map.

Supplemental Information:

Shut in pressures were calculated for operated offset standalone wells in each of the zones being commingled in the well in question via the following process:

- 1) Wells were shut in for 24 hours
- 2) Echometer was used to obtain a fluid level
- 3) Shut in BHP was calculated for the proposed commingled completion

List of wells used to calculate BHPs for the Project:

3004534893	LESTER 100S	FRC
3004534918	WILMUTH 100	PC
300453005	PIERCE SRC 2C	MV

I believe each of the reservoirs to be continuous and in a similar state of depletion at this well and at each of the wells from which the pressures are being derived.

Gas 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 or gas composition.

- The samples below all show offset gas analysis varibality by formation is low.

Well Name	API
F J TITT 2A	3004522914

FRC C	Offset	PC	Offset		MV Offset			
AssetCode	3004534893	AssetCode	LACKEY B LS 1	AssetCode	BEAVER LODGE COM 4			
AssetName	LESTER 100S	AssetName	3004507367	AssetName	3004532064			
N2		N2	0.141	N2	0.0877			
CO2	0	CO2	0.8534	CO2	0.7361			
C1	0.93		88.7876	C1	82.522			
C2	0.03		7.0323	C2	9.3464			
C3	0.02	C3	2.0997	C3	4.0265			
IC4	0	IC4	0.4066	IC4	0.8283			
NC4	0	NC4	0.3153	NC4	1.0959			
IC5	0	IC5	0.1198	IC5	0.3832			
NC5	0	NC5	0.0733	NC5	0.3065			
C6+		C6+	0.171	C6+	0.6674			
C7		C7		C7				
C8		C8		C8				
С9		С9		С9				
C10		C10		C10				
AR		AR		AR				
СО		CO		CO				
H2		H2		H2				
02		02		02				
H20		H20		H20				
H2S		H2S		H2S	0			
HE		HE		HE				
C_O_S		C_O_S		C_O_S				
CH3SH		CH3SH		CH3SH				
C2H5SH		C2H5SH		C2H5SH				
CH2S3_2CH3S		CH2S3_2CH3S		CH2S3_2CH3S				
CH2S		CH2S		CH2S				
C6HV		C6HV		C6HV				
CO2GPM		CO2GPM		CO2GPM				
N2GPM		N2GPM		N2GPM				
C1GPM		C1GPM		C1GPM				
C2GPM		C2GPM		C2GPM				
C3GPM		C3GPM		C3GPM				
ISOC4GPM		ISOC4GPM		ISOC4GPM				
NC4GPM		NC4GPM		NC4GPM				
ISOC5GPM		ISOC5GPM		ISOC5GPM				
NC5GPM		NC5GPM		NC5GPM				
C6_PLUSGPM		C6_PLUSGPM		C6_PLUSGPM				

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 samples below all show water with low TDS.

Well Name	API
F J TITT 2A	3004522914

FRC Offset		PC Of	fset	MV Offset			
API	3004534893		3004520704		3004524073		
Property	LESTER 100S	Property		Property	HEATON LS 6A		
CationBarium		CationBarium		CationBarium	0.2		
CationBoron	24.7	CationBoron	0	CationBoron	0.2		
CationCalcium	24.04	CationCalcium	562.9	CationCalcium	2.46		
CationIron		CationIron		CationIron	2.40		
CationMagnesium		CationMagnesium		CationMagnesium	0.65		
CationManganese		CationManganese		CationManganese			
0	4.74	0	2.10	U U	0.16		
CationPhosphorus		CationPhosphorus		CationPhosphorus CationPotassium	0.56		
CationPotassium	10.00	CationPotassium	12.02		20		
CationStrontium		CationStrontium		CationStrontium	2		
CationSodium	3810.42	CationSodium	10010.68	CationSodium	20		
CationSilica		CationSilica		CationSilica	10.7		
CationZinc		CationZinc	-	CationZinc	1.42		
CationAluminum		CationAluminum		CationAluminum	_		
CationCopper		CationCopper		CationCopper			
CationLead		CationLead		CationLead	2		
CationLithium		CationLithium		CationLithium			
CationNickel		CationNickel		CationNickel			
CationCobalt	ļ	CationCobalt	ļ	CationCobalt			
CationChromium		CationChromium		CationChromium			
CationSilicon		CationSilicon		CationSilicon	10		
CationMolybdenum		CationMolybdenum		CationMolybdenum			
AnionChloride		AnionChloride		AnionChloride	20.6		
AnionCarbonate	0	AnionCarbonate	0	AnionCarbonate	10		
AnionBicarbonate		AnionBicarbonate	366.6	AnionBicarbonate	45		
AnionBromide		AnionBromide		AnionBromide			
AnionFluoride		AnionFluoride		AnionFluoride			
AnionHydroxyl	0	AnionHydroxyl		AnionHydroxyl	10		
AnionNitrate		AnionNitrate		AnionNitrate			
AnionPhosphate		AnionPhosphate		AnionPhosphate	1.7		
AnionSulfate	345	AnionSulfate	2200	AnionSulfate	24.9		
phField	8.75	phField		phField	6.96		
, phCalculated		phCalculated	6.8	phCalculated	8.06		
TempField	77	TempField		TempField	52.1		
TempLab		TempLab		TempLab			
OtherFieldAlkalinity		OtherFieldAlkalinity		OtherFieldAlkalinity	15		
OtherSpecificGravity	1.01	OtherSpecificGravity	1.02	OtherSpecificGravity	1		
OtherTDS		OtherTDS		OtherTDS	65		
OtherCaCO3		OtherCaCO3		OtherCaCO3	6.14		
OtherConductivity	16264.81	OtherConductivity		OtherConductivity			
DissolvedCO2		DissolvedCO2	1	DissolvedCO2	0		
DissolvedO2	200	DissolvedO2	1	DissolvedO2	<u>+</u>		
DissolvedH2S	24 65	DissolvedH2S	n	DissolvedH2S			
GasPressure		GasPressure	0	GasPressure			
GasCO2		GasCO2		GasCO2			
GasCO2PP		GasCO2PP		GasCO2PP	-		
GasH2S		GasH2S		GasH2S	+		
GasH2SPP	0	GasH2SPP	+	GasH2SPP	+		
PitzerCaCO3_70		PitzerCaCO3_70	+	PitzerCaCO3_70	+		
PitzerBaSO4 70		PitzerBaSO4 70	+	PitzerBaSO4 70	+		
PitzerCaSO4_70 PitzerCaSO4_70		PitzerBaSO4_70 PitzerCaSO4_70		PitzerCaSO4_70			
	-						
PitzerSrSO4_70	-0.92	PitzerSrSO4_70		PitzerSrSO4_70			
PitzerFeCO3_70		PitzerFeCO3_70	+	PitzerFeCO3_70			
PitzerCaCO3_220		PitzerCaCO3_220		PitzerCaCO3_220			
PitzerBaSO4_220		PitzerBaSO4_220		PitzerBaSO4_220	_		
PitzerCaSO4_220		PitzerCaSO4_220		PitzerCaSO4_220			
PitzerSrSO4_220	-0.8	PitzerSrSO4_220		PitzerSrSO4_220			
PitzerFeCO3_220		PitzerFeCO3_220		PitzerFeCO3_220			

WAFMSS U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 01/12/2024
Well Name: F J TITT	Well Location: T31N / R11W / SEC 35 / SWSE / 36.85049 / -107.95601	County or Parish/State : SAN JUAN / NM
Well Number: 2A	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078115	Unit or CA Name: ALSTON	Unit or CA Number: NMNM73125
US Well Number: 3004522914	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2769047

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/10/2024

Date proposed operation will begin: 04/01/2024

Type of Action: Recompletion Time Sundry Submitted: 01:50

Procedure Description: Hilcorp Energy Company requests permission to recomplete the subject well in the Fruitland Coal formation and downhole commingle with the existing Mesaverde/Pictured Cliffs formations. Please see the attached procedure, current and proposed wellbore diagram, plat and natural gas management plan. A closed loop system will be used. Hilcorp will contact the FFO Surface group within 90 days after the well has been recompleted, before any interim reclamation work to conduct the onsite. A reclamation plan will be submitted after the onsite. **The FRC production will be reported under existing CA NMNM-073125 covering S/2 Sec. 35, T31N, R11W.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

F_J_Titt_2A_UPE_Coal_RC_NOI_20240110134932.pdf

Well Name: F J TITT	Well Location: T31N / R11W / SEC 35 / SWSE / 36.85049 / -107.95601	County or Parish/State: SAN JUAN / NM
Well Number: 2A	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078115	Unit or CA Name: ALSTON	Unit or CA Number: NMNM73125
US Well Number: 3004522914	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

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: CHERYLENE WESTON

Signed on: JAN 11, 2024 03:25 PM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Tech - Sr

Street Address: 1111 TRAVIS STREET

City: HOUSTON

State: TX

Phone: (713) 289-2615

Email address: CWESTON@HILCORP.COM

Field

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

BLM Point of Contact

BLM POC Name: MATTHEW H KADE BLM POC Phone: 5055647736 Disposition: Approved Signature: Matthew Kade BLM POC Title: Petroleum Engineer BLM POC Email Address: MKADE@BLM.GOV Disposition Date: 01/12/2024

F J Titt #2A

API#: 3004522914

Fruitland Coal Recompletion Procedure

12/1/2023

Procedure:

- 1. MIRU PU and associated equipment. Kill well and NDWH.
- 2. NUBOP and unseat tubing, tag for fill and lay down 2 3/8" string
- 3. Set 7" CIBP at +/-2397' to isolate existing PC and MV completion
- 4. RU wellcheck and MIT wellbore to 500 PSI
- 5. Run CBL from CIBP to surface.
- 6. PU 7" frac packer and frac string, RIH and set packer at +/-1990'
- 7. Pressure test frac string to 5000 PSI
- 8. MIRU frac spread.
- 9. Perforate and frac the Fruitland Coal from 2004' to 2397'.
- 10. MI flow back and flow well to relieve pressure if needed.
- 11.MIRU service rig.
- 12. Test BOP's.
- 13. POOH with frac string and packer.
- 14. When water and sand rates are acceptable, flow test the intervals.
- 15. Make up 7" mill and clean out.
- 16. TIH and land 2-3/8" production tubing.
- 17.ND BOP's, NU production tree.
- 18. RDMO service rig & turn well over to production.

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PI/UWI	Surface Legal Location	Field Name		License No.		State/Province		Vell Configuration Type
004522914 riolnal KB/RT Elevation (ft)	035-031N-011W-O	AZTEC PICT	URED CLIFFS (GAS)			NEW MEXICO		
,817.00	RKB to GL (11) 11.00	Original Sput 5/30/197		Rig Release Date 4/6/2000 20:0	00	PBTD (AII) Original Hole - 4,93		otal Depth All (TVD)
lost Recent Job	Primary Job Type		Secondary Job Type		Actual Start Dat	le	End Date	
VELL INTERVENTIC	N TUBING REPAIR				4/1/2009		4/8/20	09
D: 4,987.0			-	al Hole				
MD (ftKB)			Vertie	al schematic	actual)			
11.2	فالمالية فيعالدا أطاما ومناقلة أساره التكا	terester er et distance	i di la constata da de la consta las las 17772	and the standard state		2 3/8in, Tubing; 1	1.00-41.	70; 30.70; 2-1; 2 3/8; 📠
41.7						2 3/8in, Tubing Pi	up Joint	; 41.70-57.70; 16.00; 2-
57.7						2 3/8; 2.00 Casing Joints, 9 5	/8in: 11.	00-200.20; 189.20; 1-1;
200.1						9 5/8; 8.92		
201.1						8.92	.20-201	.20; 1.00; 1-2; 9 5/8;
206.0								
649.9			1818		888			
1,083.0 010	ALAMO (OJO ALAMO (final))				- W	-Casing Joints, 7in	; 11.00-2	2,694.27; 2,683.27; 2-1;
2,003.9 FRU	ITLAND (FRUITLAND (final)) -				- W	6.46		
2,397.0 PICT	URED CLIFFS (PICTURED CLI	FS (final))-				2 3/8in, Tubing; 5 3/8; 2.00	7.70-4,7	29.84; 4,672.14; 2-3; 2
2,399.9							Bon 6/9)/1982 00:00 (Pictured
2,519.0			888			Cliffs); 2,400.00-2,		
2,537.1				M I	r -	Liner Hanger 41	/2in: 25	37.03-2,550.03; 13.00; 3
2,549.9						1; 4 1/2; 4.05	/211, 2,3.	, , , , , , , , , , , , , , , , , , , ,
2,694.2					8 N	Guide Shoe 7in	2 694 27	-2,695.17; 0.90; 2-2; 7;
2,695.2						6.46	2,03421	-2,000, 2-2, 7,
2,698.2								
4,002.0CLIF	F HOUSE (CLIFF HOUSE (final)) ———			<u></u>	Casing Joints, 4 1 2,388.25; 3-2; 4 1/		50.03-4,938.28;
4,501.0						4 501 0 4 807 000	Bon 6/1	3/1978 00:00 (Point
4,669.0 POIN	T LOOKOUT (POINT LOOKOU	IT (final)) —			×.	Lookout); 4,501.0	0-4,807.	00; 1978-06-13
4,730.0				ŝ.		2 3/8in, Tubing Pi 2-4; 2 3/8; 2.00	up Joint	; 4,729.84-4,731.96; 2.1
4,732.0				۱ <u> </u>		2 3/8in, Tubing; 4	,731.96-	4,762.82; 30.86; 2-5; 2
4,762.8							; 4,762.8	2-4,763.82; 1.00; 2-6; 2
4,763.8						3/8; 1.78 2 3/8in Expendat	ble Cher	:k; 4,763.82-4,764.62;
4,764.8						0.80; 2-7; 2 3/8; 2.		
4,807.1					888 888			
4,930.1								
4,938.3							1/2in; 4;	938.28-4,939.48; 1.20;
4,939.6						3; 4 1/2; 4.05 Casing Joints, 4 1	/2in; 4,9	39.48-4,984.20; 44.72;
4,984.3						4; 4 1/2; 4.05		
4,984.9				J			04.20-4,5	985.00; 0.80; 3-5; 4 1/2;
4,986.9					**			

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			ed Schematic		
Well Name: FJ	TITT #2A			1 ² (c, p)	
004522914	035-031N-011W-0	Pleshane Aztec Potumed CUPPE (GAR)	Logina No.	NEW WILDING	wei Contguizzon Type
igina kSRT Sleator (t) 817.00	和当日GL(内 11.00	Orgina Sput Date 5/30/1978 00:00	Aig Researcate 4/6/2000 20:00	Peto (Al) Original Hole - 4,930.0	Total Depth All (TVD)
lost Recent Job	and the second s		64		
Caligory VELL INTERVENTION	N TUBING REPAIR	Secondary Los Type	Actua Start 2 4/1/2009		
D: 4,987.0		Origin	al Hole		
MD (#KB)		Verti	cal schematic (actual)		
112	and the second second			2 3/Bin, Tubing: 11.00-4	1.70; 30.70; 2-1; 2 3/8;
41.7				2.00 2 3/Bin, Tubing Pup Joi	nt: 41.70-57.70; 16.00; 2-2;
57.7				2 3/8; 2.00 Casing Injets 9 5/8in 1	1.00-200.20; 189.20; 1-1;
200.1				9 5/8; 8.92	
201.1				Shoe, 9 5/8in; 200.20-20 8.92	01.20; 1.00; 1-2; 9 5/8;
206.0					
649.9					
S or near	ALAMO (OJO ALAMO (final))			Casing loints 7ig 11.0	0-2,694.27; 2,683.27; 2-1; 7
	TLAND (FRUITLAND (final)) -			6.46	
	URED CLIFFS (PICTURED CLI	FFS (Brail)		2 3/8in, Tubing; 57.70-4	729.84; 4,672.14; 2-3; 2
2 399.9	2			3/6; 2.00	
2519.0		100 USA		Cliffs; 2,400.00-2,519.00	5/9/1982 00:00 (Pictured); 1982-06-09
2.537.1				1000 March 11 Class	
2,549.9				1:4 1/2:405	537.03-2,550.03; 13.00; 3-
2,694.2				-	
2,695.2		1		Guide Shoe, 7in; 2,6942 6.46	21-2,695-11; 0.90; 2-2; 7;
2,698.2					
Contraction (Contraction)	HOUSE (CLIFF HOUSE (final	0		Casing Joints, 4 1/2in; 2 2,388.25; 3-2; 4 1/2; 4.05	
4,501.0	rieses (early rieses binn				
	T LOOKOUT (POINT LOOKO	IT /Boatti		4,501.0-4,807.0ftKB on 6 Lookout: 4,501.00-4,80	
4,730.0					nt: 4,729,84-4,731,96; 2,12
4,732.0				2 3/8in, Tubing; 4,731.9	6-4,762.82; 30.86; 2-5; 2
4,762.8				3/8; 2.00 2 3/8in F- Nipple: 4762	282-4,763.82; 1.00; 2-6; 2
4,763.8		9		3/8; 1.78	
4,764.8				2 3/6in, Expendable Ch 0.80; 2-7; 2 3/6; 2.00	eck; 4,763.82-4,764.62;
4,807.1					
4,930.1		8			
4,938.3				Flapper Collar, 4 1/2im	4,938,28-4,939,48: 1,20: 3-
4,939.6				3:41/2:405	
4,959.6				4;4 1/2; 4.05	4,939.48-4,964.20; 44.72; 3-
				Shoe, 4 1/2in; 4,964.20- 4.05	4,985.00; 0.80; 3-5; 4 1/2;
4,954.9					
4,500.3					
www.peloton.com		Pa	ige 1/1	F	leport Printed: 12/1/202

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

Form C-102 August 1, 2011

Page 18 of 36

Permit 355335

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-2		2. Pool Code 7162	9			3. Pool Nar	^{ne} BASIN FRUITLA	AND COAL (GAS)	
4. Property Co 31	de 9359	5. Property Name F J T	5. Property Name F J TITT				6. Well No. 002A			
7. OGRID No. 37	2171	8. Operator Name HILCORP ENERGY COMPANY				9. Elevatior	5806			
				10. S	urface Locatio	n				
UL - Lot O	Section 35	Township 31N	Range 11W	Lot Idn	Feet From 910	N/S Line S	Feet From 1460	E/W Line E	County	SAN JUAN
11. Bottom Hole Location If Different From Surface						,				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Lin	e Feet Fror	n E/W Li	ne	County
12. Dedicated 32	Acres 0.00 - S/2		13. Joint or In	fill	14. Consol	idation Code		15. Ord	der No <u>.</u>	
NO ALL	OWABLE W				ON UNTIL ALL EEN APPROVE		S HAVE BEEN (DIVISION	CONSOLID	ATED O	R A NON-
				kn mi thi int by	owledge and belier neral interest in the s well at this location	ne information , and that this a land including on pursuant to tary pooling ag	RATOR CERTIF contained herein is organization either g the proposed bott a contract with an greement or a comp Meatenn	true and comp owns a workin om hole locatic owner of such a	g interest on(s) or ha a mineral	t or unleased as a right to drill or working

Title:

Date:

of my belief.

Surveyed By: Date of Survey:

Certificate Number:

Cherylene Weston

Fred B. Kerr, Jr.

12/15/1977 3950

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

12/7/2023

	E	nergy, Minerals Oil C 1220	tte of New Mex and Natural Reso onservation Div South St. Franc nta Fe, NM 875	ources Departme vision vis Dr.	ent	Sub Via	mit Electronically E-permitting
	Ν	ATURAL G	AS MANAC	GEMENT P	LAN		
This Natural Gas Mana	gement Plan m	ust be submitted v	vith each Applicati	ion for Permit to I	Drill (A	PD) for a new o	r recompleted well.
			<u>1 – Plan De</u> Effective May 25,				
I. Operator: Hilcorp	Energy Compar	ıy	OGRID:	372171		Date:01 /	09 / 2024
II. Type: 🗵 Original 🛛	□ Amendment	due to □ 19.15.27	7.9.D(6)(a) NMAC	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Other.	
If Other, please describe	e:						
III. Well(s): Provide th be recompleted from a s					wells pr	roposed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D F	Anticipated Produced Water BBL/D
F J Titt 2A	3004522914	0-35-31N-11W	910 FSL, 1460 FEI	0 bbl/d	136 ו	mcf/d	3 bbl/d
IV. Central Delivery F	oint Name:	Ignacio Pr	ocessing Plant			[See 19.15.2	27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recompl					vell or s	et of wells prop	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date
<u>F J Titt 2A</u>	3004522914						<u>2024</u>
VI. Separation Equips VII. Operational Prac Subsection A through F VIII. Best Manageme during active and plann	etices: ⊠ Attac f of 19.15.27.8 nt Practices: □	h a complete dese NMAC.	cription of the act	ions Operator wil	l take to	o comply with	the requirements of

.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Cherylene Weston
Printed Name:	Cherylene Weston
Title:	Operations/Regulatory Tech-Sr.
E-mail Address	cweston@hilcorp.com
Date:	01/09/2024
Phone:	713-289-2615
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A	oproval:

VI. Separation Equipment:

Hilcorp Energy Company (HEC or Operator) production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our recomplete project. HEC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the recomplete to optimize gas capture and send gas to sales or flare based on analytical composition. HEC operates facilities that are typically one-well facilities. Production separation equipment is upgraded prior to well being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the recomplete operations.

- VII. Operational Practices:
- 1. Subsection (A) Venting and Flaring of Natural Gas
 - HEC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
- 2. Subsection (B) Venting and Flaring during drilling operations
 - This gas capture plan isn't for a well being drilled.
- 3. Subsection (C) Venting and flaring during completion or recompletion
 - Flowlines will be routed for flowback fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
- 4. Subsection (D) Venting and flaring during production operations
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
 - HEC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 1 4.
- 5. Subsection (E) Performance standards
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

- 6. Subsection (F) Measurement or estimation of vented and flared natural gas
 - Measurement equipment is installed to measure the volume of natural gas flared from process piping.
 - When measurement isn't practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

- 1. Operator has adequate storage and takeaway capacity for wells it chooses to recomplete as the flowlines at the sites are already in place and tied into a gathering system.
- 2. Operator will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
- 3. Operator combusts natural gas that would otherwise be vented or flared, when technically feasible.
- 4. Operator will shut in wells in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

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	303090
	Action Type:
	[C-103] NOI Recompletion (C-103E)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
dmcclure	Notify NMOCD 24 Hours Prior to beginning operations.	4/15/2024
dmcclure	DHC required	4/15/2024
dmcclure	All conducted logs shall be submitted to the Division as a [UF-WL] EP Well Log Submission (WellLog).	4/15/2024
dmcclure	The appropriate compliance officer supervisor shall be consulted and remedial action conducted as directed if the cement sheath around the casing is not adequate to protect the casing and isolate strata from: (a) the uppermost perforation in each added pool to at least 150 feet above that perforation; and (b) the lowermost perforation in each added pool to at least 100 feet below that perforation.	4/15/2024

Page 25 of 36

Action 303090



April 15, 2024

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

Re: C-107A (Downhole Commingle) FJ Titt 2A API No. 30-045-22914 O-35, T31N-R11W San Juan County, NM

Gentlemen:

Concerning Hilcorp Energy Company's C-107A application to downhole commingle production in the subject well, this letter serves to confirm the following:

All working, royalty and overriding royalty interests are identical between the Blanco Mesaverde (Pool Code: 72319), Aztec Pictured Cliffs (Pool Code: 71280) and Basin Fruitland Coal (Pool Code: 71629) in the spacing units dedicated to these formations. Therefore, no notice to interest owners is required.

If you have any questions or concerns, please contact the undersigned using the information provided below.

Sincerely,

By: HILCORP ENERGY COMPANY, Its General Partner

Carson Parker Rice Landman – San Juan Basin Hilcorp Energy Company 1111 Travis Street Houston, Texas 77002 713-757-7108 Direct Email: carice@hilcorp.com

From:	McClure, Dean, EMNRD on behalf of Engineer, OCD, EMNRD
То:	Cheryl Weston; Mandi Walker
Cc:	McClure, Dean, EMNRD; Lowe, Leonard, EMNRD; Rikala, Ward, EMNRD; Wrinkle, Justin, EMNRD; Powell, Brandon, EMNRD; Paradis, Kyle O; dmankiew@blm.gov
Subject:	Approved Administrative Order DHC-5382
Date:	Thursday, May 23, 2024 1:07:04 PM
Attachments:	DHC5382 Order.pdf

NMOCD has issued Administrative Order DHC-5382 which authorizes Hilcorp Energy Company (372171) to downhole commingle production within the following well:

Well Name: F J Titt #2A Well API: 30-045-22914

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

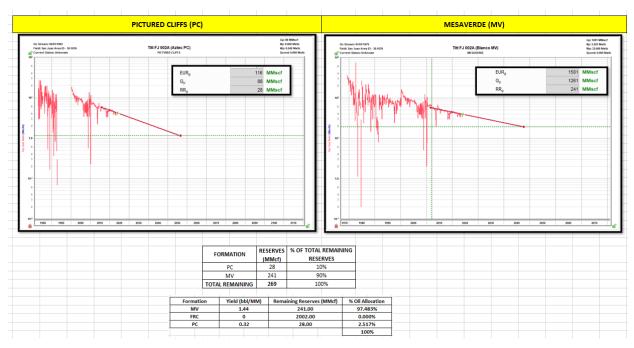
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Dean,

Sorry for all the back and forth and confusion, this was all driven by two compounding errors in the units being used on reserves (BCF being used for the PC reserves vs MMcf in the MV). You are correct on the split, and I added a simplified look with an updated allocation table to help clarify this.

Thanks for the patience and helping us work through/catching those mistakes. Please reach out with any more questions.



From: McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov> Sent: Monday, May 20, 2024 1:18 PM

To: Mandi Walker <mwalker@hilcorp.com>; Lowe, Leonard, EMNRD <Leonard.Lowe@emnrd.nm.gov>

Cc: Cheryl Weston <cweston@hilcorp.com>; Griffin Selby <Griffin.Selby@hilcorp.com>

Subject: RE: [EXTERNAL] Action ID: 335315; DHC-5382

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Mandi,

It is correct that I intended to ask about the allocation between the PC and MV rather than MC.

Please provide additional information regarding how Hilcorp derived the remaining reserves for the PC and MV. Without knowing the equations used, and roughly looking at the historic production and decline curves, there currently appears to be a roughly 90/10 split between the MC and PC rather than the ~1/800th split being computed for remaining reserves within Hilcorp's table below.

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

 From: Mandi Walker <<u>mwalker@hilcorp.com</u>>

 Sent: Monday, May 20, 2024 9:47 AM

 To: McClure, Dean, EMNRD <<u>bean, McClure@emnrd.nm.gov</u>; Lowe, Leonard, EMNRD <<u>Leonard.Lowe@emnrd.nm.gov</u>>

 Cc: Cheryl Weston <<u>cweston@hilcorp.com</u>>; Griffin Selby <<u>Griffin.Selby@hilcorp.com</u>>

 Subject: FW: [EXTERNAL] Action ID: 335315; DHC-5382

Good morning Dean,

Since Cheryl is out, I wanted to get you the information you were needing to continue your review of the DHC application.

Please let me know if you need anything further.

Thank you,

Mandí Walker SJE/SJN (1,2,7) Regulatory Technician Sr. Office: 346.237.2177 <u>mwalker@hilcorp.com</u>

From: Griffin Selby <<u>Griffin.Selby@hilcorp.com</u>> Sent: Monday, May 20, 2024 10:44 AM To: Cheryl Weston <<u>weston@hilcorp.com</u>>; Jackson Lancaster <<u>Jackson.Lancaster@hilcorp.com</u>>; Mandi Walker <<u>mwalker@hilcorp.com</u>>; Subject: RE: [EXTERNAL] Action ID: 335315; DHC-5382

Cheryl,

Please see my responses to Dean's questions below in red. Thanks and let me know if there is anything else I need to provide.

Please provide additional information regarding the following:

• From the fixed oil percentage table, it appears that Hilcorp is stating that there is no remaining gas within the PC. However, the PC decline curve shows otherwise. Please provide either an amended decline curve and statement regarding PC having no remaining gas and the reason that Hilcorp wishes to leave the perforations open, or else provide an amended allocation table for oil and provide a gas allocation table which depicts Hilcorp's proposed allocation between the PC and MC.

This appears to be a rounding error – the PC has reserves remaining, and the value seemed to be cut off as all the values show no decimal places. The table is reshown below with decimal places and a value shown for the PC that matches the typecurve shown. Also, can we please clarify what is being referred to by the proposed allocation the PC & MC? The only formations existing in this wellbore are the PC and MV, with the added zone being the FC. If MC refers to the MV then no issues, just want to make sure we are submitting all the requested information correctly.

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
MV	1.44	241.00	99.974%
FRC	0	2002.00	0.000%
PC	0.32	0.28	0.026%
			100%

• Please provide an amended table that depicts the wells used to determine the BHP of the pools that includes the correct API numbers for the used wells.

This appears to be a typo. A "6" was missing from the end of the API number of the Pierce SRC 2C. I verified that that all API numbers are correct. Table with the "6" added to the API number for the Pierce SRC 2C below:

List of wells used to calculate BHPs for the			
3004534893	LESTER 100S	FRC	
3004534918	WILMUTH 100	PC	
3004530056	PIERCE SRC 2C	MV	

· Please provide the quantity of H2S for each of the pools

H2S quantity for all pools (FC, MV, PC) is zero.

 From: Cheryl Weston <<u>cweston@hilcorp.com</u>>

 Sent: Wednesday, May 15, 2024 7:57 PM

 To: Griffin Selby-<u>Griffin.Selby@hilcorp.com</u>>; Jackson Lancaster <<u>Lackson.Lancaster@hilcorp.com</u>>; Mandi Walker <<u>mwalker@hilcorp.com</u>>; Subject: FW: [EXTERNAL] Action ID: 335315; DHC-5382

Griffin,

Please provide additional information requested below.

Thanks, Cheryl

From: McClure, Dean, EMNRD <<u>Dean.McClure@emnrd.nm.gov</u>> Sent: Wednesday, May 15, 2024 5:56 PM To: Cheryl Weston <<u>cweston@hilcorp.com</u>>; Mandi Walker <<u>mwalker@hilcorp.com</u>> C: Lowe, Leonard, EMNRD <<u>Leonard Lowe@emnrd.nm.gov</u>> Subject: [EXTERNAL] Action ID: 335315; DHC-5382

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To whom it may concern (c/o Cheryl Weston for Hilcorp Energy Company),

			-
т	he Division is i	reviewing the following application:	

Action ID	335315	
Admin No.	Admin No. DHC-5382	
Applicant	Hilcorp Energy Company (372171)	
Title	F J Tiit #2A	
Sub. Date	4/19/2024	

Please provide the following additional supplemental documents:

Please provide additional information regarding the following:

- From the fixed oil percentage table, it appears that Hilcorp is stating that there is no remaining gas within the PC. However, the PC decline curve shows otherwise. Please provide either an amended decline curve and statement regarding PC having no remaining gas and the reason that Hilcorp wishes to leave the perforations open, or else provide an amended allocation table for oil and provide a gas allocation table which depicts Hilcorp's proposed allocation between the PC and MC.
- Please provide an amended table that depicts the wells used to determine the BHP of the pools that includes the correct API numbers for the used wells.
- Please provide the quantity of H2S for each of the pools.

Additional notes:

All additional supplemental documents and information may be provided via email and should be done by replying to this email. The produced email chain will be uploaded to the file for this application.

Please note that failure to take steps to address each of the requests made in this email within 10 business days of receipt of this email may result in the Division rejecting the application requiring the submittal of a new application by the applicant once it is prepared to address each of the topics raised.

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

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

APPLICATION FOR DOWNHOLE COMMINGLINGSUBMITTED BY HILCORP ENERGY COMPANYORDER NO. DHC-5382

<u>ORDER</u>

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. 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

- 8. 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.
- 9. 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.
- 10. 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

Order No. DHC-5382

in excess of the commingled pool's fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.

- 11. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
- 12. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

<u>ORDER</u>

- 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. This Order supersedes Order DHC-2603.
- 3. 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);
 - b. two and five tenths percent (2.5%) shall be allocated to the AZTEC PICTURED CLIFFS (GAS) pool (pool ID: 71280); and
 - c. ninety-seven and five tenths percent (97.5%) 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 AZTEC PICTURED CLIFFS (GAS) pool (pool ID: 71280); and
- b. the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319).

Until a different plan to allocate gas production is approved by OCD, of the projected gas production allocated to the current pools:

- a. ten percent (10%) shall be allocated to the AZTEC PICTURED CLIFFS (GAS) pool (pool ID: 71280); and
- b. ninety percent (90%) shall be allocated to 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 determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.

- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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).
- 10. 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

DYLAN M. FUGE DIRECTOR (ACTING) DATE: <u>5/23/24</u>

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	Exhibit A	N	
	Order: DHC-5382		
	Operator: Hilcorp Energy	r Company (372171)	
	Well Name: F J Titt #2A		
	Well API: 30-045-22914		
	Pool Name: BASIN FRUITLA	AND COAL (GAS)	
Upper Zone	Pool ID: 71629	Current:	New: X
	Allocation:	Oil: 0.0%	Gas: subt
		Top: 2,004	Bottom: 2,397
	Pool Name: AZTEC PICTUR	ED CLIFFS (GAS)	
Intermediate Zone	Pool ID: 71280	Current: X	New:
	Allocation:	Oil: 2.5%	Gas: 10.0%
		Top: 2,400	Bottom: 2,519
Bottom of Inter	val within 150% of Upper Zone'	s Top of Interval: YES	
	Pool Name: BLANCO-MESAVERDE (PRORATED GAS)		
Lower Zone	Pool ID: 72319	Current: X	New:
	Allocation:	Oil: 97.5%	Gas: 90.0%
		Top: 4,501	Bottom: 4,807
Bottom of Inter	val within 150% of Upper Zone'	s Top of Interval: NO	

State of New Mexico Energy, Minerals and Natural Resources Department

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

CONDITIONS

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	335315	
	Action Type:	
	[C-107] Down Hole Commingle (C-107A)	

CONDITIONS			
Created By	Condition	Condition	
		Date	
dmcclure	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.	5/23/2024	

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Action 335315