Received by OCD: 7/11/2024 1:14:07 PM

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ID NO. 363325	DH	C - 5422	,							
RECEIVED: 07/11/24	REVIEWER:	TYPE:	APP NO: pLEL242275987	78						
1	ABOVE NEW MEXICO OIL (- Geological & Er 220 South St. Francis D	ngineering Burea	DIVISION							
ADMINISTRATIVE APPLICATION CHECKLIST THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND										
	REGULATIONS WHICH REQUIRE PRO									
Applicant: Hilcorp Energ			OGRID Number: 372171							
Well Name: Helms Federa	1 1E		API: <u>30-045-25047</u>							
Pool: Basin Fruitland Coal /	Blanco Mesaverde / Basin Dak	tota	Pool Code: 71629, 72319, 71	599						
 TYPE OF APPLICATIC A. Location – Spa □NSL B. Check one on 	INDIC N: Check those which a cing Unit – Simultaneous NSP(PROJECT AREA) y for [1] or [11] ng – Storage – Measur <u>er</u>	CATED BELOW								
 WFX 2) NOTIFICATION REOL A. Offset opera B. Royalty, overall C. Application D. Notification E. Notification F. Surface ow 	JIRED TO: Check those wators or lease holders erriding royalty owners, re requires published notic and/or concurrent app and/or concurrent app ner e above, proof of notifica]IPI EOR which apply. evenue owners ce roval by SLO roval by BLM	PPR FOR OCD ON Notice Compl Application Content Complete							
administrative approunderstand that no	oval is accurate and cor	mplete to the best	d with this application for t of my knowledge. I also Itil the required information and							

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

Cherylene Weston

Print or Type Name

7/11/2024

Date

713-289-2614

Phone Number

Cherylene Weston

Signature

cweston@hilcorp.com e-mail Address

Received by OCD: 7/11/2024 1:14:07 PM

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

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 30

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE __Single Well __Establish Pre-Approved Pools EXISTING WELLBORE __X_Yes ___No

APPLICATION FOR DOWNHOLE COMMINGLING

Hilcorp Energy Company

382 Road 3100, Aztec, NM 87410 Address

 Operator
 Address

 Helms Federal
 1E
 D-22-T30N-R10W
 San Juan County, NM

 Lease
 Well No.
 Unit Letter-Section-Township-Range
 County

OGRID No. 372171 Property Code 318554 API No. 30-045-25047 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Basin Fruitland Coal	Blanco Mesaverde	Basin Dakota		
Pool Code	71629	72319	71599		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2638' - 2911'	3704' - 5444'	7247' - 7369'		
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)	55 psi	88 psi	91 psi		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1134 BTU	1249 BTU	1060 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:	4/1/2024 Date: Oil - 7 bbl Rates: Gas - 1735 mcf Water - 15 bbl	Date: 4/1/2024 Rates: Oil - 11 bbl Gas - 708 mcf Water - 15 bbl		
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % %	Oil Gas % %	Oil Gas % %		

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		No No
Are all produced fluids from all commingled zones compatible with each other?	Yes_>	κ	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_>	X	No

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.

Thomahr	f.	+hat t	he int	formation	aharra	in terms	and		lata ta	the	hast	of mar	1 morel	daa	and	haliat	2
I nereby	cerun	y mai i	the m	formation	above	is true	e and	comp	iele lo	une	Dest	or my	KIIOWIE	age	ana	bener	•

SIGNATURE	Chery	/lene	Weston	TITLE Operations/Regulatory Tech-Sr.	DATE	7/11/2024	

_TELEPHONE NO. (________) 289-2615

TYPE OR PRINT NAME	Cherylene Weston

E-MAIL ADDRESS cweston@hilcorp.com

Received by OCD: 7/11/2024 1:14:07 PM

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 3 of 30

Permit 355010

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name				
30-045-25047	71629	BASIN FRUITLAND COAL (GAS)				
4. Property Code	5. Property Name	6. Well No.				
318554	HELMS FEDERAL	001E				
7. OGRID No.	8. Operator Name	9. Elevation				
372171	HILCORP ENERGY COMPANY	6276				
10. Surface Location						

Γ	UL - Lot	Se	ection	Township	Range	Lot Idn		N/S Line	Feet From	E/W Line	County
	I	2	22	30N	10W	4	805	N	790	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 13. Joint or Infill 14. Consolidation Code 15. Order No. 323.84

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: 12/01/2023
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:Michael DalyDate of Survey:3/20/1981Certificate Number:5992

Received by	OCD:	7/11/2 NEW	MEXICO	4:07	PM
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Page 4 07 30 Revised 10-1-7

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<i>.</i>		All distances must be	from the outer boundaries	of the Section.	
Operator			Leose		Well No. 1E
	Y CORPOR	ATION	HELMS FEDE		
Unli Leller Sec		Township	Ronge	County	
D 2	2	30 NORTH	10 WEST	SAN JUAN	
Actual Footage Location	of Well:			LUDCO	
805 1-	t from the	NORTH line and		leet from the WEST	Dedicated Acreage:
Ground Level Elev.	Producing For	motion	Pool		1.1 222 04
6276	Da.	kota	Basin		
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interest and re	oyalty).				
3. If more than of dated by comm	unitization, u	initization, force-pool	ing. etc?		f all owners been consol
Yes		nswer is "yes," type o			
		owners and tract desc	criptions which have	actually been consolid	lated. (Use reverse side o
this form if ne	cssary.)		1 to the base base	concolidated (by cor	nmunitization, unitization
No allowable w	ill be assign	ed to the well until al	I interests have been	uch interests, has been	nmunitization, unitization n approved by the Divisio
forced-pooling,	or otherwise)	or until a non-standa	unit, eminating s		
	ł				CERTIFICATION
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	1		OIL CON. COM		
	1		DIST. 3	Area Su	perintendent
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	i				ENERGY CORPORATION
	ł		1	Dale	1001
	1		1	May 8,	1981
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	I			isile M	NEL DAL The the well location
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				Certificate	No.
	THE COMPANY D			599	

District II PO Drawer DD, Artesia, NM 88211-0719 OIL District III 1000 Rio Brazzo Rd., Azzec, NM 87410 District IV PO Box 2008, Santa Fe, NM 87504-2085					OIL (S	CONSER PO Santa Fe, 3	VATI Box 2 NM 8	Comurcis Department ON DIVISIO 2088 37504-2088	N 21		hit to App	Instru Propriate State L Fee L	Form C-102 ruary 21, 1994 uctuons on back District Office ease - 4 Copies ease - 3 Copies DED REPORT
· • • •	Numbe				' Pool C	ode	ACR	EAGE DEDIC		' Pool Nam			·7
30-045-2	5047			7231	9/71	599		Blanco Mesa	verd	le/Basin	Dakot	ta	
* Property Co	ede						operty N	is me					Vell Number
7108				В	elms	Federal	Deraier-	Name					1E Elevation
	o.			-lin	aton	_			Cor				6' GR
14538			bui	[110	glon			Oil & Gas Location	00				
UL or let se.	-Section -	Townshi	p -R	ange	Lot-Ide			North/South-line	-Feet-	from the	East/Wes	t line	County
D	22	30N		10W		805		North	790	D	West		San Juan
		<u> </u>	1	¹ Bott	om H	Iole Locat	ion I	f Different Fr	om S	urface			
UL or lot no.	Section	Townshi	PR	lange	Lot Id	a Feet from	n the	North/South line	Feet	from the	East/We	it line	County
¹³ Dedicated Acr	1	i or infil	¹⁴ Com	eilebile:	Code	¹⁵ Order No.							
W/323.84		WIT I B		SIGNE		THIS COM		ON UNTIL ALL	INTE	RESTS H	AVE BE	EN CO	NSOLIDATED
NO ALLOV	VABLE	OR		ON-ST	ANDA	RD UNIT I	IAS B	EEN APPROVE) BY	THE DIV	ISION		
17901						Driginal Michael D		from 3-20-81.		I hereby cert mus and com Signalure Peggy	ify that the is place to the	information best of my	TIFICATION commissied herein is knowledge and belief
						150	189	10 77 20		Printed Na Regula This	atory	Superv	
						22 6 7	es:			Date		0 01	
										i hereby ce was pioued or under m correct to Date of Su	rtify that th I from field ty supervisi the best of t wrvey	e well locat notes of ac on, and tha ny belief.	TIFICATION non shown on shis plat nul surveys made by a t she same is snue and al Surveyer:
										Certificat	e Number		

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, commingling the above reservoirs 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 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.

Helms Federal 1E 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.

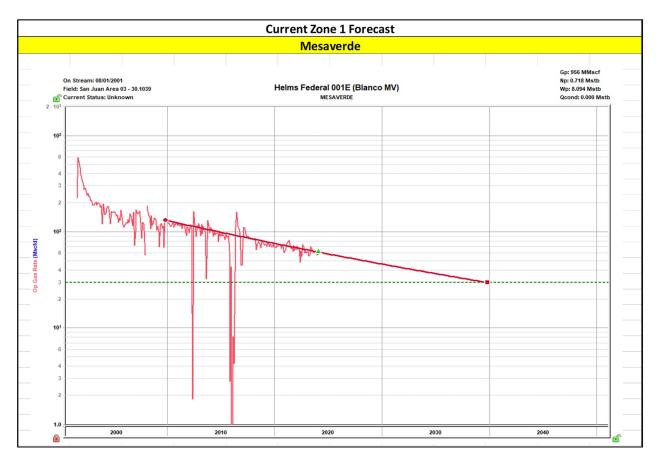
Production Allocation Method – Subtraction

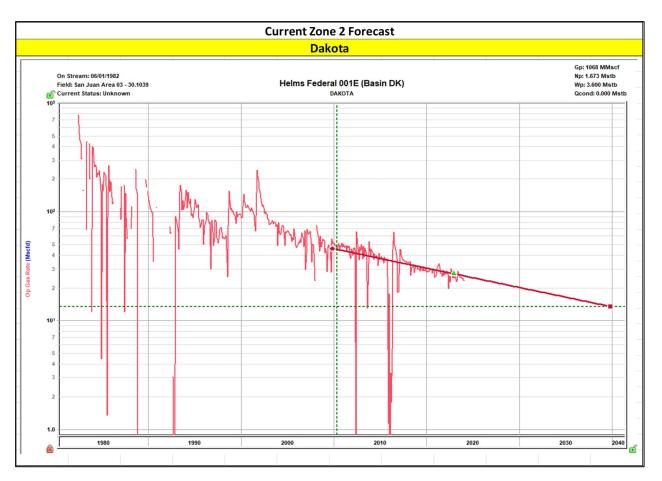
Gas Allocation:

Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Mesaverde/Dakota and the added formation to be trimmingled 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.

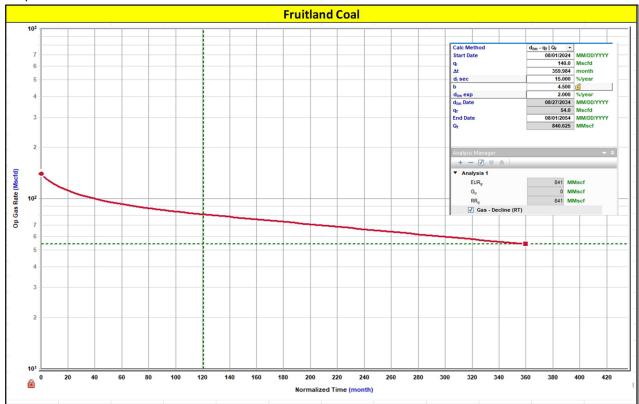
Hilcorp intends to continue to allocate the projected base production on the same fixed percentages to the following pools 71% (MV), 29% (DK) while the subtraction method is being used to determine the allocation to the new zone.

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.





Proposed Zone Forecast



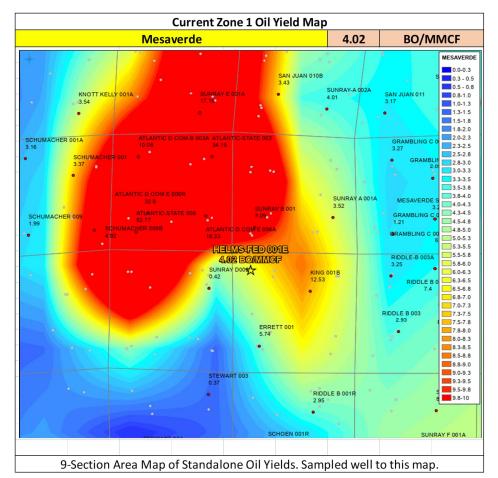
Oil Allocation:

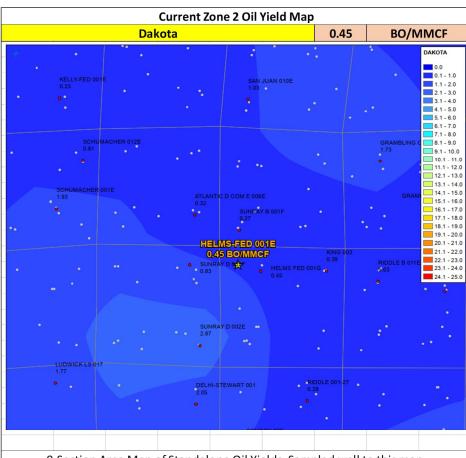
Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years. After 4 years oil will be reevaluated and adjusted as needed based on average formation yields and new fixed gas allocation.

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
MV	4.02	250	95%
FRC	0	841	0%
DK	0.45	121	5%

Proposed Zone – Fruitland Coal Oil Yield Map

	Fruitland Coal		0	BO/MMCF
·* · · · ·		SAN JUAN 2005 0.17 AY E 221 SAN JUAN 200 0.05	•	FRUITLAND COAL 05 muttLano_coaL_ano 0 - 1 1.0-2.0 2.0-3.0 3.0-4.0 4.0-5.0 5.0-6.0 6.0-7.0 7.0-8.0
• •		SUNRAY B 2155 0.04 9	SUNRAY A 210 0.76	B 0-9.0 9.0-10.0 10.0-11.0 11.0-12.0 13.0-14.0 GRAMBLING C 14.0-15.0
·. ·.	SUNRAY D 2265	SUNRAY B 215 0.01 MSHRED 001E BO/MMGF	KING 200	GRAMBL GRAMBL 17.0-18.0 18.0-19.0 19+
• •		BO/MINGF AY DIAS	•	1.29 RIDDLE B 223 0.11
•	SUNRAY D 226 SUNRAY D 0.91 0.06	- 	•	RIDDLE B 222 0.07
• •			RIDDLE B 224S	





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

3004509472	GRAMBLING C 1C	MV
3004527076	KING 200	FRC
3004534494	SUNRAY B 1F	DK

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	1			
HELMS FEDERAL 1E	3004525047				
FRC Offset (2.5 miles)		MV Offset	t (0.75 miles)		
AssetCode	3004528146	AssetCode	3004524194	AssetCode	3004533703
AssetName	FC FEDERAL COM 11		BASSETT B 1	AssetName	SUNRAY D 2E
N2		N2		N2	0
CO2		CO2		CO2	0.02
C1	0.92		0.8		0.89
C2	0.05		0.1		0.05
C3	0.02		0.05		0.02
ISOC4		ISOC4		ISOC4	0
NC4		NC4	0.01		0.01
ISOC5	0	ISOC5	0.01	ISOC5	0
NC5		NC5		NC5	0
C6_PLUS		C6_PLUS		C6_PLUS	0.01
 C7	0	 C7	0	 C7	
C8	0	C8	0	C8	
С9	0	С9	0	С9	
C10		C10		C10	
AR		AR		AR	
СО		СО		CO	
H2		H2		H2	
02	0	02	0	02	
H20		H20		H20	
H2S	0	H2S	0	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_2CH3	S
CH2S		CH2S		CH2S	
C6HV		C6HV		C6HV	
CO2GPM		CO2GPM		CO2GPM	0
N2GPM		N2GPM		N2GPM	0
C1GPM		C1GPM		C1GPM	0
C2GPM		C2GPM		C2GPM	1.42
C3GPM		C3GPM		C3GPM	0.5
ISOC4GPM		ISOC4GPM		ISOC4GPM	0.14
NC4GPM		NC4GPM		NC4GPM	0.16
ISOC5GPM		ISOC5GPM		ISOC5GPM	0.08
NC5GPM		NC5GPM		NC5GPM	0.06
C6_PLUSGPM		C6_PLUSGPM		C6_PLUSGPN	0.25

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
HELMS FEDERAL 1E	3004525047

FRC Offset (2.6	miles)	MV Offset (2.63 miles)	DK Offset (1.8	miles)
API	3004533749		3004560206	API	3004509127
Property	KELLY 100	Property	TURNER FEDERAL 2	Property	GRENIER A 4
CationBarium	0.5	CationBarium		CationBarium	0.5
CationBoron		CationBoron		CationBoron	
CationCalcium	62	CationCalcium	3.32	CationCalcium	76
CationIron	98	CationIron		CationIron	39
CationMagnesium		CationMagnesium		CationMagnesium	12
CationManganese		CationManganese		CationManganese	0.5
CationPhosphorus		CationPhosphorus		CationPhosphorus	
CationPotassium		CationPotassium		CationPotassium	
CationStrontium	0.5	CationStrontium		CationStrontium	0.5
CationSodium		CationSodium		CationSodium	83.14
CationSilica	100.01	CationSilica	11.00	CationSilica	00.11
CationZinc		CationZinc	-0.78	CationZinc	
CationAluminum		CationAluminum	-0.70	CationAluminum	
CationCopper		CationCopper		CationCopper	
CationLead	-	CationLead		CationLead	
CationLithium	-	CationLithium		CationLithium	
CationNickel		CationLithium		CationLithium	
CationCobalt	_	CationNickel		CationNickel	
CationChromium	-	CationChromium		CationChromium	
CationSilicon	-	CationSilicon		CationSilicon	
CationMolybdenum		CationMolybdenum	500.04	CationMolybdenum	100
AnionChloride		AnionChloride	599.81	AnionChloride	120
AnionCarbonate	-	AnionCarbonate		AnionCarbonate	0
AnionBicarbonate	110	AnionBicarbonate	219.6	AnionBicarbonate	110
AnionBromide		AnionBromide		AnionBromide	
AnionFluoride		AnionFluoride		AnionFluoride	
AnionHydroxyl	0	AnionHydroxyl		AnionHydroxyl	0
AnionNitrate		AnionNitrate		AnionNitrate	
AnionPhosphate		AnionPhosphate		AnionPhosphate	
AnionSulfate	110	AnionSulfate		AnionSulfate	155
phField	7.24	phField	5.5	phField	7.19
phCalculated		phCalculated	6.1	phCalculated	
TempField	60	TempField	27.9	TempField	73
TempLab		TempLab		TempLab	
OtherFieldAlkalinity		OtherFieldAlkalinity		OtherFieldAlkalinity	
OtherSpecificGravity	0	OtherSpecificGravity		OtherSpecificGravity	0
OtherTDS	819.01	OtherTDS	72	OtherTDS	596.64
OtherCaCO3		OtherCaCO3		OtherCaCO3	
OtherConductivity	1279.7	OtherConductivity	116.1	OtherConductivity	932.25
DissolvedCO2	8	DissolvedCO2	250	DissolvedCO2	9
DissolvedO2		DissolvedO2		DissolvedO2	1
DissolvedH2S	0	DissolvedH2S	8.5	DissolvedH2S	0
GasPressure		GasPressure		GasPressure	100
GasCO2		GasCO2		GasCO2	0
GasCO2PP		GasCO2PP		GasCO2PP	0
GasH2S		GasH2S		GasH2S	0
GasH2SPP		GasH2SPP		GasH2SPP	0
PitzerCaCO3 70		PitzerCaCO3 70		PitzerCaCO3 70	-0.61
PitzerBaSO4 70		PitzerBaSO4 70		PitzerBaSO4_70	1.32
PitzerCaSO4_70		PitzerCaSO4_70		PitzerCaSO4_70	-1.34
PitzerSrSO4_70		PitzerSrSO4_70		PitzerSrSO4_70	-1.85
PitzerFeCO3 70	-2.03	PitzerFeCO3 70		PitzerFeCO3 70	-1.03
PitzerCaCO3_220	0.14	PitzerCaCO3_220		PitzerCaCO3 220	0.2
PitzerBaSO4 220		PitzerBaSO4 220		PitzerBaSO4 220	
-		-		-	0.76
PitzerCaSO4_220		PitzerCaSO4_220		PitzerCaSO4_220	-1.23
PitzerSrSO4_220	- 1.86	PitzerSrSO4_220		PitzerSrSO4_220	-1.66
PitzerFeCO3_220		PitzerFeCO3_220		PitzerFeCO3_220	

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 05/14/2024
Well Name: HELMS	Well Location: T30N / R10W / SEC 22 / NWNW / 36.80286 / -107.87753	County or Parish/State : SAN JUAN / NM
Well Number: 1E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0555078	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004525047	Operator: HILCORP ENERGY COMPANY	

Notice of Intent

Sundry ID: 2789931

AEMACO

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/14/2024

Date proposed operation will begin: 06/01/2024

Type of Action: Recompletion Time Sundry Submitted: 08:55

Procedure Description: Hilcorp Energy Company requests permission to recomplete the subject well in the Fruitland Coal formation and downhole commingle with the existing Mesaverde/Daktoa formations. Please see the attached procedure, current and proposed wellbore diagram, plat and natural gas management plan. A closed loop system will be used. A pre-reclamation site visit was held on 10/17/2023 with Roger Herrera/BLM. The reclamation plan is attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Helms_Federal_1E_FRC_RC_NOI_20240514085346.pdf

$\left(\right)$	Well Name: HELMS	Well Location: T30N / R10W / SEC 22 / NWNW / 36.80286 / -107.87753	County or Parish/State: SAN JUAN / NM
	Well Number: 1E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
	Lease Number: NMNM0555078	Unit or CA Name:	Unit or CA Number:
	US Well Number: 3004525047	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

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: 05/14/2024

Signed on: MAY 14, 2024 08:53 AM

Helms Federal #1E

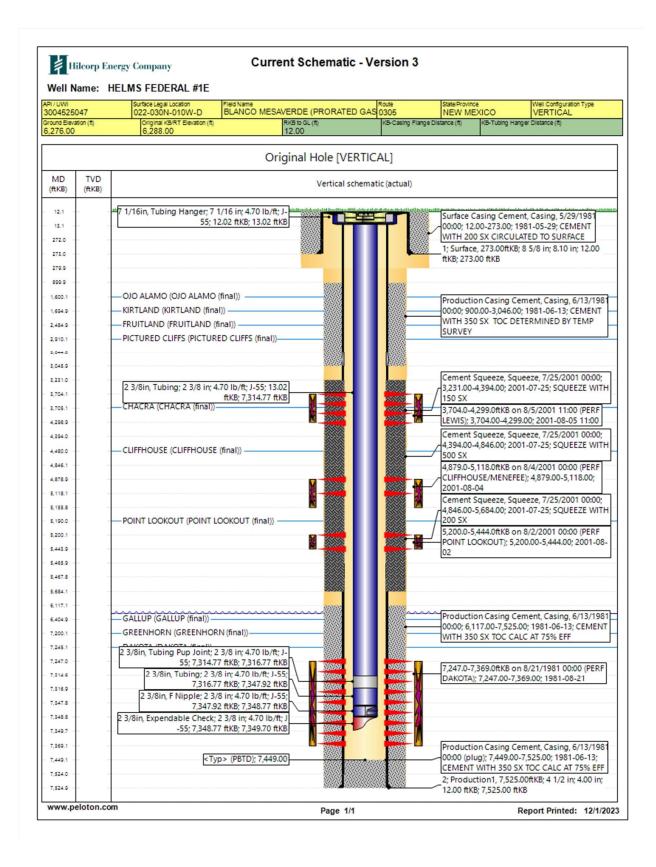
API#: 3004525047

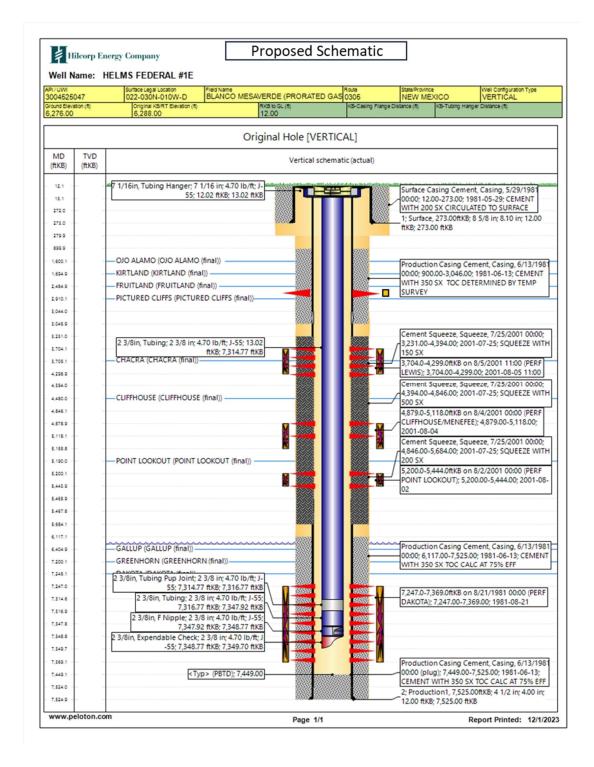
Fruitland Coal Recompletion Procedure

12/1/2023

Procedure:

- 1. MIRU PU and associated equipment. Kill well and NDWH.
- 2. NU BOP and unseat tubing, tag for fill and scan out tubing
- 3. Set 4.5" CIBP at +/-2911' to isolate existing DK and MV completion
- 4. RU Wellcheck and MIT wellbore to 500 PSI
 - a. Please note existing CBL (07-25-01)
- 5. Perforate and frac the Fruitland Coal from 2638' to 2911'.
- 6. MIRU service rig and test BOP's.
- 7. Cleanout sand and plugs to PBTD.
- 8. TIH and land 2-3/8" production tubing in DK
- 9. ND BOP's, NU production tree.
- 10. RDMO service rig & turn well over to production as commingled Fruitland Coal/Mesa Verde/Dakota producer.





Received by OCD: 7/11/2024 1214:07 PMM

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

Page 19 of 30

Form C-102 August 1, 2011

Permit 355010

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number		2. Pool Code					3.F	Pool Name	e					
30-045-2	5047	71629)					В	ASIN	FRUITL/	AND CO	DAL (GAS)	
4. Property Cod	e	5. Property Name					6. V	Vell No.						
318	554	HELM	IS FEDERAL					00	01E					
7. OGRID No.		8. Operator Name					9.E	evation						
372	171	HILCO	ORP ENERGY C	COMPAN	Y			e	5276					
				10. S	urfac	e Locatior								
UL-Lot S	Section	Township	Range	Lot Idn	T	et From	N/S	Line	Feet F	rom	E/W Lin	e	County	
D	22		10W		4	805		N		790		Ŵ		SAN JUAN
			11. Bottom	Hole Loo	ation	If Differer	nt Fro	om Surf	ace					
UL - Lot	Section	Township	Range	Lot Idn		Feet From		N/S Line	T	Feet Fror	n le	E/W Lir	ne	County
			Ū											
12. Dedicated A	cres		13. Joint or Infil			14. Consoli	idation	n Code			1	15. Ord	ler No.	
323	.84													
						INITIL AL I		реете						
NO ALLO	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													
								OPER.	ATOR	CERTIF	ICATIC	N		
						certify that th								
				kr		ge and belief,								or unleased

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 Westen
Title: Cherylene Weston
Date: 12/01/2023
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: Michael Daly
Date of Survey: 3/20/1981
Certificate Number: 5992
Certificate Number: 5992

Received	1 hv	OCD	7/11/2024	1214:07PM
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		Ener		ate of New N and Natural H		epartment		bmit Electronically a E-permitting
			1220	Conservation South St. Fr inta Fe, NM	ancis Dr.			
		NA'	TURAL (GAS MAN	AGEME	NT PLAI	N	
his Natural Gas M	Ianagement Pla	n must	be submitted	with each Appl	ication for Pe	ermit to Drill ((APD) for a new	or recompleted well
				<u>n 1 – Plan</u> Effective May		<u>ion</u>		
Operator: <u>Hilco</u>	orp Energy Con	npany			OGRID:	372171	_ Date:12/0	1/2023 .
. Type: 🛛 Origin	nal 🗆 Amendr	nent du	ie to 🗆 19.15.2	27.9.D(6)(a) NN	ИАС 🗆 19.1	5.27.9.D(6)(b)) NMAC 🗆 Oth	er.
Other, please des	cribe:							
I. Well(s): Provid recompleted from						or set of wells	proposed to be	drilled or proposed t
Well Name	API		ULSTR	Footages Anticipated Oil BBL/D		Anticipated Gas MCF/I		
elms Federal 1E	3004525047	D-22	-30N-10W	805' FNL & 1	790' FWL	0 bbl/d	131 mcf/d	1 bbl/d
7. Central Delive Anticipated Sch oposed to be reco	nedule: Provide	e the fo	llowing inform		new or recon	npleted well of	15.27.9(D)(1) N r set of wells pro	MAC] posed to be drilled o
Well Name	AI	PI	Spud Date	TD Reached Date		ement Date	Initial Flow Back Date	First Production Date
elms Federal 1E	<u>30045</u> 2	<u>25047</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>		<u>N/A</u>	<u>2024</u>
II. Operational I ubsection A throu	Practices: ⊠ A gh F of 19.15.2 ement Practice	Attach a 7.8 NN	a complete des MAC.	scription of the	actions Ope	rator will take	e to comply with	optimize gas capture the requirements c to minimize venting

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.

 \boxtimes 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):

Operate	or	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.

Section 3 - Certifications Effective May 25, 2021

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: <u>cweston@hilcorp.com</u>
Date: 12/01/2023
Phone: 713-289-2615
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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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
 - o 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.

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Hilcorp Energy Interim Reclamation Plan Helms Federal #1E API: 30-045-25047 D – Sec.22-T030N-R010W Lat: 36.79211, Long: -107.80627 Footage: 805' FNL & 790' FWL San Juan County, NM

1. PRE- INTERIM RECLAMATION SITE INSPECTION

- 1.1) A pre-interim reclamation site inspection was completed by Roger Herrera with the BLM and Chad Perkins construction Foreman for Hilcorp Energy on October 17, 2023.
- 1.2) Location surface will be brush hogged or mulched and bladed as required within original disturbance to acquire additional working surface for well recompletion activities.

2. LOCATION INTERIM RECLAMATION PROCEDURE

- 2.1) Interim reclamation work will only be completed after well recompletion.
- 2.2) The interim reclamation work will be completed during spring or fall months.
- 2.3) Location tear drop will be re-defined as applicable for the interim reclamation.
- 2.4) All diversion ditches and silt traps will be cleaned and re-established as applicable for the interim reclamation.
- 2.5) All disturbed areas will be seeded, any disturbed areas that are compacted will be ripped before seeding.
- 2.6) All trash and debris will be removed within 50' buffer outside of the location disturbance during reclamation.

3. ACCESS ROAD RECLAMATION PROCEDURE:

- 3.1) No lease access road issues were identified at the time of onsite.
- 3.2) Lease access road will be maintained as applicable before, during, and after, recompletion activities.

4. SEEDING PROCDURE

- 4.1) A Pinion/Juniper seed mix will be used for all reclaimed and disturbed areas of the location.
- 4.2) Drill seeding will be done where applicable and all other disturbed areas will be broadcast seeded and harrowed, broadcast seeding will be applied at a double the rate of seed.
- 4.3) Timing of the seeding will take place when the ground is not frozen or saturated.

5. WEED MANAGEMENT

5.1) No action is required at this time for weed management, no noxious weeds were identified during the onsite.

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	344259
	Action Type:
	[C-103] NOI Recompletion (C-103E)

CONDITIONS

CONDITION		
Created By	Condition	Condition Date
dmcclure	Notify NMOCD 24 Hours Prior to beginning operations.	6/28/2024
dmcclure	DHC required	6/28/2024
dmcclure	All conducted logs shall be submitted to the Division as a [UF-WL] EP Well Log Submission (WellLog).	6/28/2024
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 150 feet above that perforation; and (b)	6/28/2024

Page 27 of 30

Action 344259



July 11, 2024

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

Re: C-107A (Downhole Commingle) Helms Federal 1E API No. 30-045-25047 D-22, T30N-R10W 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 Basin Dakota (Pool Code: 71599), Blanco Mesaverde (Pool Code: 72319) 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

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

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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

COMMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	363325
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

COMMENTS

COMIN		
Create By	d Comment	Comment Date
llow	Emailed Order to Jackson Lancaster on 10/02/24. He inquired about it.	10/3/2024

COMMENTS

Page 29 of 30

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Action 363325

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

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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	363325
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By		Condition Date
llowe	None	8/14/2024

CONDITIONS

Page 30 of 30