RECEIVED:	REVIEWER:	TYPE:	APP NO:
	- Geolog	0 0	ATION DIVISION Bureau –
THIS CH	ECKLIST IS MANDATORY FOR A	ALL ADMINISTRATIVE APPLICAT	TIONS FOR EXCEPTIONS TO DIVISION RULES AND
Well Name:	NOTIFICATION REQUIRED TO: Check those which apply. Notice Comp A. Offset operators or lease holders Notice Comp B. Royalty, overriding royalty owners, revenue owners Application		
SUBMIT ACCURA	e and complete in		
A. Location – NS B. Check one [1] Comm [1] [1] Injecti	Spacing Unit – Simu SL SP e only for [1] or [11] ingling – Storage – N DHC STB F on – Disposal – Press	Itaneous Dedication ROJECT AREA) NSF Measurement PLC PC OI ure Increase – Enha	P _(PRORATION UNIT) SD LS OLM Inced Oil Recovery
A. Offset of B. Royalty C. Applica D. Notifica E. Notifica F. Surface G. For all of	perators or lease ho , overriding royalty o ation requires publish ation and/or concurr ation and/or concurr e owner	Iders whers, revenue owr red notice rent approval by SLC rent approval by BLN	ners D Notice Complete Notice Complete
administrative a understand tha	approval is accurate	and complete to the ken on this applicat	omitted with this application for ne best of my knowledge. I also tion until the required information and
Note	e: Statement must be comp	eted by an individual with r	managerial and/or supervisory capacity.

Print or Type Name

Phone Number

Date

_____Albather

Signature

e-mail Address

Received by OCD: 2/16/2023 11:32:38 AM

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

> 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

Form C-107A

Revised August 1, 2011

APPLICATION FOR DOWNHOLE COMMINGLING

Hilcorp Energy Company Operator <u>382 Road 3100, Aztec, NM 87410</u> Address

•			
Riddle E Com	1A	H-04-30N-09W	San Juan
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. <u>372171</u> Property Code <u>319332</u> API No.<u>30-045-22419</u> Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZO	ONE	INTER	MEDIATE ZO	DNE	LOWE	R ZONE	
Pool Name	Basin Fruitland	d Coal				Blanco	Mesaverde	
Pool Code	71629					72	2319	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2550' – 28'	79'				4660	' – 5497	
Method of Production (Flowing or Artificial Lift)	Artificial L	ift				Artifi	cial 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)	92 psi					11	5 psi	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	909 BTU	J				121	8 BTU	
Producing, Shut-In or New Zone	New Zon	e				Pro	ducing	
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:		Date: Rates:			Date:12/1/202 Rates: Oil: 0 bbls Gas:1578 mcf Water: 45 bbls		
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?	Yes	Χ	No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes		No
Are all produced fluids from all commingled zones compatible with each other?	Yes	Х	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.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE_

TITLE Operations/Regulatory Technician Sr. DATE 2/16/2023

TYPE OR PRINT NAME Amanda Walker

TELEPHONE NO. <u>346-237-2177</u>

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

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Received by OCD: 2/16/2023 11:32:38 AM NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well too. 1.1211 EL PASO NATURAL GAS COMPANY RIDDLE E (SF-081098) LA 2.1.1211 Gention Townsaug 9-W SAN JUAN 2.1.1211 Gention Month 100 methy 100 methy 100 methy 3.1.1211 County SAN JUAN County SAN JUAN 2.1.1211 Townsup Producting from the MORTH 100 methy 100 methy Designation 3.1.1211 Producting from the MORTH Inscord 890 free time the EAST Ince 3.1.1211 Inscord MESA VERDE Designation Designation Area 1.1111 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership threeof (both as to workin interest and royalty). 3.11 more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Communitization Yes No If answer is "so," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessar/s) Notic: THIS PLAT IS REISS
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H 4 30-N 9-W SAN JUAN Attual Footaps Location of Well: 150 feet from the NORTH line and 890 feet from the EAST line Detected Arrange: Sciends Level Elve. Preducing Provide the Subject well by colored pencil or hachure marks on the plat below. Iteration of the subject well by colored pencil or hachure marks on the plat below. 1. Outline the arrange dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interests and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consold dated by communitization, unitization, force-pooling, etc? Communitization Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if accessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or therwise.) OCRECTED LEASE INFORMATION. 3-25-77 Sin. NOTE: THS PLAT IS REISEUED TO REFLECT CORRECTED LEASE INFORMATION. 3-25-77 Sin. NOTE: THS PLAT IS REISEUED TO REFLECT CORRECTED LEASE INFORMATION. 3-25-77 Sin. NOTE: THS PLAT IS REFLECT CORRECTED LEASE INFORMATION. 3-25-77 Sin. SEC NN 4 Image consolin
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Nº 38 28 1977 SF-081098 SEC DN 4 SEC DN 4 I have by certify that the well location shown on this plat was plotted from fie
#1 o SF-078319 Date Surveyed MARCH 14, 1977 Registered Protession at Engineer on Y or Land Surveyor MARCH 14, 1977

Page 3 of 37 Form C-102 Supersedes C-128

Received by OCD: 2/16/2023 11:32:38 AMNEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

1. Outline the acreage dedicated to the subject well by colored pencil of hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? [] Yes [] No If answer is "yes," type of consolidation	ived by OCD: 2	/16/2023 11:32:38	AM NEW MEXICO O WELL LOCATION				Т	Forn Paged 4 of 3 Supersedes C-128 Effective 1-1-65
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							Registered.	Professional Engineer
330 660 90 1320 1650 1980 2310 1340 2010 1500 1000 500 0	DESCRIPTION AND AND A						Certificate	No. 1760

District I No. Prench Dr., Hobbs, Niki 332404 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-045-22419	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	5. Property Name	6. Well No.
319332	RIDDLE E COM	001A
7. OGRID No.	8. Operator Name	9. Elevation
372171	HILCORP ENERGY COMPANY	6116

10. Surface Location

UL - Lot Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Н	4 30	1 09W		1510	N	890	E	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 A 323		1	13. Joint or Infill		14. Consolidatio	n Code	L	15. Order No.	

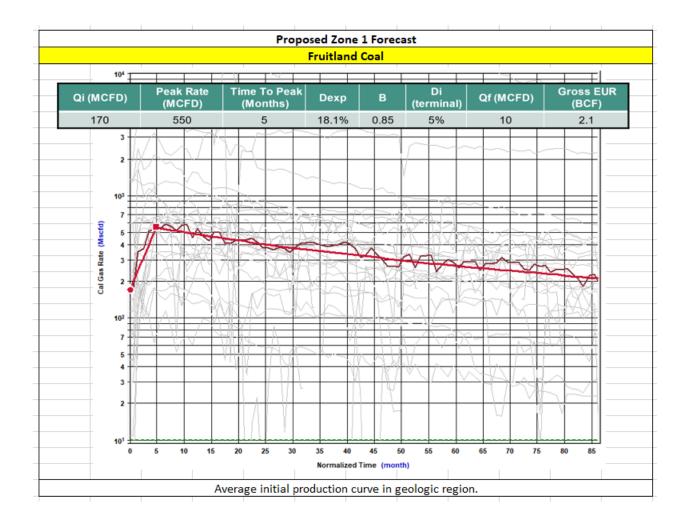
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

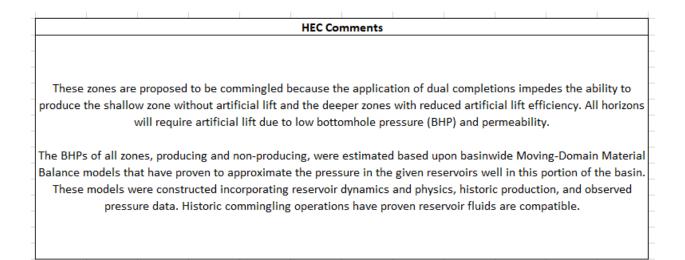
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to 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: Wutler Title: Operations Regulatory Tech Sr. Date: 1/18/2023
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: David Kilven
Date of Survey: 3/14/1977
Certificate Number: 1760

Received by OCD: 2/16/2023 11:32:38 AM

Page 5 of 37

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.



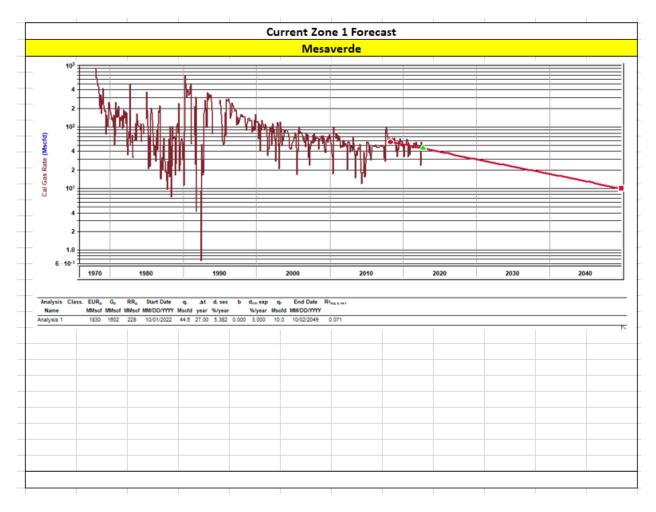


Production Allocation Method – Subtraction

Gas Allocation:

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

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



.

Oil Allocation:

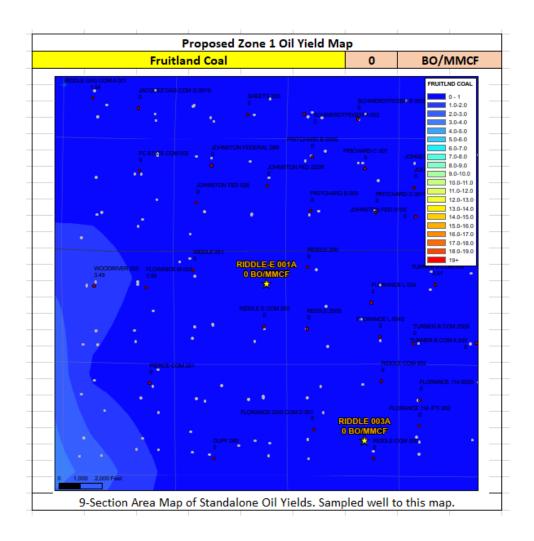
Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years.

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

Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation	
MV	3.96	228	100%	
FRC	0	2100	0%	
			100%	

All documentation will be submitted to NMOCD.

	Mesav	erde			3.96	BO/	ммс
RDDLE	LS 003B JACQUE		7.07	TS 001A		HUNSAKER	MESAVERI
 1.05 RIDOLE 036 	0 2.5		SCHIERTIE	SER ON SHOW	VERDTFEGER 001X		0.0-0.3
10.96	JAQUES 001	20.2	ion connectorie	3.69 10.21	VERDTFEGER 001X	о н 1	0.3 - 0
•			••	••• •	SCHWERD	TFEGER 001.40	0.8-1.0
	· · · · · · · · · · · · · · · · · · ·	7.32			11.23		1.0-1.3
	STATE COM	H 004B		PRITCHA	RD 002A		1.3-1.5
	3.46			7.15	PRITCHARD 00 5.29	12-01	1.5-1.8
	STATE 084	• •	JOHNS	TON 004			2.0-2.3
	6.01		1.66		**	•	2.3-2.1
	••						2.5-2.8
							3.0-3.2
WALKER COM 002		JOHNSTON 2.58	002 JOHNSTON-F	ED 004A PRITCH 5.01	HARD B LS 003	JC 3.	3.3-3.5
10.41	WALKER COM LS 0	02A	0.93		JOHNSTON FED 0		3.5-3.8
•* //	9.76		•	0		6.41 •	4.0-4.3
	•						4.3-4.5
•	RIDDLE H K 001						4.5-4.8
	RIDDLE H K 001 2,13						4.8-5.0
WOODRIVER		 RIDDLE 001R 2.24 	RIDDLE-E 00	40			5.3-5.5
6.17						TURNER-® (5.5-5.8
	FLORANCE 047		8.96 BQ/MM	90-		31.5	6.0-6.3
••	2.07 FLORANCE N	10478	A	RIDDLE 0 4.93		•	6.3-6.5
	2.23				FLORANCE L		6.5-6.8
WOODRIVER 001R	•		RIDOLE	DO1E RIDDLE 002	1.42		6.8-7.0
2.89	RIDOLE 001A	RIDD	LE 001B	1.8	FLORANCE 0	ISA TURNE	7.3-7.5
WDOD 001 3.56	• 3.55	2.64		 RIDDLE 0 3.28 E 001R 	1.73	1.21	7.5-7.8
	FLORANCE 047A		RIDDLE	E 001R		TURNER-B CO	7.8-8.0
	2.94						8.3-8.5
FLORANCE 0					RIDDLE 003		8.5-8.8
2.73	2.79						8.8-9.0
•	•	ELLIOTT GAS C	COMIC 001A		· · · ·	FLORE	9.0-9.3
FLORANI 1.57	CE AA 014B	ELLIOT GAS COM		01 FLOR	1.23 • IANCE GAS COM D 004	B 1.5	9.5-9.8
		2.01	2.52	1.73		•	9.8-10
-	4 PIERCE 002A			•			
FLORANCE 002-1 2.48	4 PIERCE 002A 3.08		FLORANCE FE	0 001-04 1.7	RIDDLE 008A		NCE 001-18
	4 PIERCE 002A 3.08	ELUOTT	104		1.64 BOMMOF	3.58	
E1		C 3.14	ELLIOT GAS C 2.07				SAY 002A 2.21
• • FLOR4	NCE AA 014C 1.7	2.	•			1.22 •	
			ELLIOT	GAS COM-D 001A			
1,000 2,000 Feet			1.61				



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 fresh water with low TDS.

Well Name	API
RIDDLE E COM 1A	3004522419

FF	RC Offset	MV Offset		
API	3004528921	API	3004527532	
Property	JOHNSTON FEDERAL 28R	Property	QUIGLEY 1R	
CationBarium		CationBarium	0.07	
CationBoron		CationBoron		
CationCalcium	0.24	CationCalcium	4.37	
CationIron		CationIron	18.38	
CationMagnesium		CationMagnesium	0.06	
CationManganese		CationManganese	0.36	
CationPhosphorus	0.01	CationPhosphorus	0.00	
CationPotassium		CationPotassium		
CationStrontium	0	CationStrontium	10.83	
CationSodium		CationSodium	501.91	
CationSilica	400.42	CationSilica	301.71	
CationZinc		CationZinc		
CationAluminum		CationAluminum		
CationCopper		CationCopper		
CationLead		CationLead		
CationLithium		CationLithium		
CationNickel		CationNickel	∔]	
CationCobalt		CationCobalt	<u> </u>	
CationChromium		CationChromium	<u> </u>	
CationSilicon		CationSilicon	<u> </u>	
CationMolybdenum		CationMolybdenum		
AnionChloride	191.21	AnionChloride	220	
AnionCarbonate		AnionCarbonate	0	
AnionBicarbonate	977.6	AnionBicarbonate	488	
AnionBromide		AnionBromide		
AnionFluoride		AnionFluoride		
AnionHydroxyl		AnionHydroxyl	0	
AnionNitrate		AnionNitrate		
AnionPhosphate		AnionPhosphate		
AnionSulfate	0	AnionSulfate	389	
phField	6.28	phField	7	
phCalculated		phCalculated		
TempField		TempField	51.1	
TempLab		TempLab		
OtherFieldAlkalinity		OtherFieldAlkalinity		
OtherSpecificGravity		OtherSpecificGravity	1	
OtherTDS	1651.3	OtherTDS	1632.98	
OtherCaCO3		OtherCaCO3		
OtherConductivity		OtherConductivity	2551.53	
DissolvedCO2		DissolvedCO2	46	
DissolvedO2		DissolvedO2	10	
DissolvedH2S	0		1.7	
GasPressure	0	GasPressure	90	
GasCO2	1	GasCO2	90 0	
GasCO2 GasCO2PP	1	GasCO2 GasCO2PP	0	
0.1100	0	0 1100	-	
GasH2S GasH2SPP	0	GasH2S GasH2SPP	0	
GasH2SPP PitzerCaCO3_70	1	GasH2SPP PitzerCaCO3_70	-1.5	
		PitzerBaSO4_70		
PitzerBaSO4_70 PitzerCaSO4 70		_	0.69	
		PitzerCaSO4_70	-2.32	
PitzerSrSO4_70		PitzerSrSO4_70	-0.27	
PitzerFeCO3_70		PitzerFeCO3_70	0.89	
PitzerCaCO3_220		PitzerCaCO3_220	-0.28	
PitzerBaSO4_220		PitzerBaSO4_220	0.05	
PitzerCaSO4_220		PitzerCaSO4_220	-2.09	
PitzerSrSO4_220		PitzerSrSO4_220	0.13	
PitzerFeCO3_220		PitzerFeCO3_220	2.43	

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	
RIDDLE E COM 1A	3004522419	

FRC Offs	set	MV Offset			
AssetCode	3004526937	AssetCode	3004521980		
AssetName	RIDDLE 251	AssetName	LINDSEY 2A		
CO2	0.03	CO2	0.03		
N2	0	N2	0		
C1	0.87	C1	0.81		
C2	0.06	C2	0.08		
C3	0.03	C3	0.04		
ISOC4	0	ISOC4	0.01		
NC4	0	NC4	0.01		
ISOC5	0	ISOC5	0		
NC5	0	NC5	0		
NEOC5		NEOC5			
C6		C6			
C6_PLUS	0	C6_PLUS	0.01		
C7		C7			
C8		C8			
С9		C9			
C10		C10			
AR		AR			
СО		CO			
H2		H2			
02		02			
H20		H20			
H2S	0	H2S	0		
HE		HE			
C_O_S		C_O_S			
CH3SH		CH3SH			
C2H5SH		C2H5SH			
CH2S3_2CH3S		CH2S3_2CH3S			
CH2S		CH2S			
C6HV		C6HV			
CO2GPM	0	CO2GPM	0		
N2GPM	0	N2GPM	0		
C1GPM	0	C1GPM	0		
C2GPM		C2GPM	2.19		
C3GPM		C3GPM	1.02		
ISOC4GPM		ISOC4GPM	0.23		
NC4GPM	0.08	NC4GPM	0.36		
ISOC5GPM	0.02	ISOC5GPM	0.18		
NC5GPM	0.01	NC5GPM	0.14		
C6_PLUSGPM	0.01	C6_PLUSGPM	0.53		



February 16, 2023

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

Re: Application for Downhole Commingling Well: Riddle E COM 001A API: 3004522419 T30N - R09W - Section 4, Unit Letter: H San Juan County, NM

Ladies and Gentlemen:

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

• All working, royalty and overriding royalty interests are <u>identical</u> between the **Blanco Mesaverde (72319)** and **Basin Fruitland Coal (71629)** as such relates to the prescribed spacing unit(s) being the **E/323.30**.

Pursuant to Subsection C.(1)(c) of 19.15.12.11, if the spacing unit(s) contains state, federal or tribal lands, Hilcorp will have provided notice via mail or sundry to the State Land Office and/or BLM as of the date of this letter.

If you have any questions or concerns regarding this matter, please do not hesitate to contact me at the email or number provided below.

Regards,

Hilcorp Energy Company

Killer

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

eived by OCD: 2/16/2023 11:32:38 AM		Sundry Print Research
UREAU OF LAND MANAGEMENT		- A
Well Name: RIDDLE E	Well Location: T30N / R9W / SEC 4 / SENE / 36.843277 / -107.779633	County or Parish/State: SAN JUAN / NM
Well Number: 1A	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF081098	Unit or CA Name: RIDDLE	Unit or CA Number: NMNM73164
US Well Number: 3004522419	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2713600

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/01/2023

Date proposed operation will begin: 03/01/2023

Type of Action: Recompletion Time Sundry Submitted: 11:31

Procedure Description: Hilcorp Energy Company requests permission to recomplete the subject well in the Fruitland Coal and downhole commingle with the existing Mesaverde. 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 1/24/2023 with Roger Herrera/BLM. The reclamation plan is attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

30045224190000_Riddle_E_Com_1A_RC_NOI_20230201113135.pdf

Received by OCD: 2/16/2023 11:32:38 AM	Well Location: T30N / R9W / SEC 4 / SENE / 36.843277 / -107.779633	County or Parish/State: Page 15 of 37 JUAN / NM
Well Number: 1A	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF081098	Unit or CA Name: RIDDLE	Unit or CA Number: NMNM73164
US Well Number: 3004522419	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: AMANDA WALKER

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON

State: TX

State:

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

Field

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

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK BLM POC Phone: 5055647742 Disposition: Approved Signature: Kenneth Rennick Signed on: FEB 01, 2023 11:31 AM

BLM POC Title: Petroleum Engineer BLM POC Email Address: krennick@blm.gov

Zip:

Disposition Date: 02/02/2023



Prepared by:	Scott Anderson	
Preparation Date:	January 17, 2023	

	WELL INFORMATION					
Well Name:	RIDDLE E COM 1A	State:	NM			
API #:	3004522419	County:	SAN JUAN			
Area:	4	Location:	1510' FNL & 890' FEL - Unit H - Section 4 - T 030N - R 009W			
Route:	0408	Latitude:	36.8432878 N			
Spud Date:	6/25/1977	Longitude:	-107.7796049 W			

PROJECT DESCRIPTION

Isolate the Mesaverde, perforate and stimulate the OPE Fruitland Coal in 1-2 stages via frac string. Commingle the Fruitland Coal production with the existing Mesa Verde production. Strip facilities if necessary; repair production eqmt as needed

CONTACTS						
Title	Name	Office Phone #	Cell Phone #			
Engineer	Scott Anderson		248-761-3965			
Area Foreman	Colter Faverino		326-9758			
Lead	Ramon Florez		486-9680			
Artificial Lift Tech	Chris Huff		599-3479			
Operator	Dennis Jacquez		787-1639			

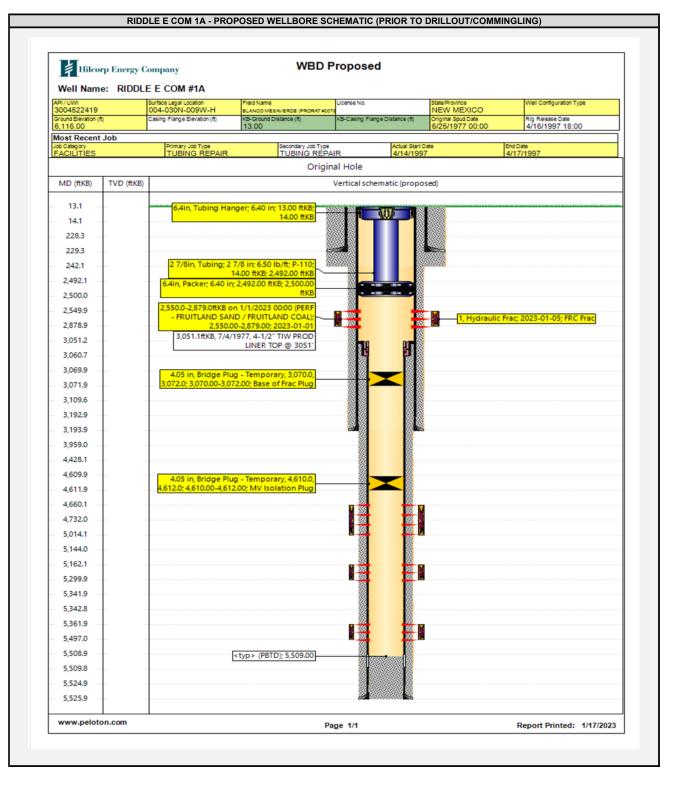


	JOB PROCEDURES
✓ ✓	NMOCD Contact OCD 24 hrs prior to MIRU. Record and document all casing pressures <u>daily</u> , including BH, IC (if present) and
1	BLM PC. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
1.	MIRU service rig and associated equipment; NU and test BOP per HEC, State, and Federal guidelines.
2.	TOOH with 2-3/8" tubing
3.	PU a 4-1/2" cast iron bridge plug and RIH with work string; set CIBP at +/- 4,610' to isolate the Mesa Verde formation.
4.	Load wellbore with fluid. RU wireline and run a CBL from the CIBP at 4,610' to surface
5.	RU pressure test truck. Perform a Mechanical Integrity Test on wellbore. Chart record the MIT test (Notify NMOCD +24hr before actual test).
6.	If necessary, PU and RIH with a Base of frac plug inside the 4-1/2" liner and set at +/- 100' below the bottom proposed perf
7	RU E-line crew. Perforate the Fruitland Coal. (Top perforation @ 2,550', Bottom perforation @ 2,879').
	NOTE: perforation interval subject to change based on the results of the CBL run above
8.	RIH with 2-7/8" or larger frac string and packer, land packer ~50' above the top perf.
9.	N/D BOP, N/U 10K frac stack and test frac stack to frac pressure. PT frac string to 8000-9000 psi, PT backside to 1500 psi
10.	RU stimulation crew. Frac the Fruitland Coal in one or two stages.
11.	Flowback well thru flowback separator and sand trap until pressures diminish.
12.	MIRU service rig. Nipple down frac stack, nipple up BOP and test.
13.	POOH w/ frac string and packer.
14.	Drill out the Base of frac plug and Mesaverde isolation plug. Clean out to PBTD at 5,509'
15.	TIH and land 2-3/8" production tubing. Get a commingled Fruitland Coal / Mesa Verde flow rate.



		ergy Company IDDLE E COM #1A	Current	Schematic - V	ersion 3			
1/UWI 00452241		Surface Legal Location 004-030N-009W-H	Field Name BLANCO MESAVE	RDE (PRORAT #0078	Route 0408	State/Province NEW MEX		Well Configuration Type
ound Elevatio 116.00	in (ft)	Original KBIRT Elevation (#) 6,129.00		Ground Distance (ft)	KB-Casing Flang	e Distance (ft)	K8-Tubing Hange	r Distance (ft)
110.00		0,120.00						
				Original Hole				
MD ftKB)	TVD (ftKB)			Vertical schema	tic (actual)			
13.1	-			9000000 X00				t, Casing, 6/25/1977 77-06-25; CEMENT W/
14.1						190 SXS 0	LASS 'B' W/	1/4 PPS GEL-FLAKE
228.3								00WN BACKSIDE W/
229.3	-					3% CACL	2. CIRCULATI	ED TO SURFACE 9 5/8 in; 9.00 in; 13.00
242.1	-					ftKB; 229.4	1 ftKB	
,659.1	-	- OJO ALAMO (OJO ALAMO	(final))			Intermedia 6/29/1977	ate Casing Ce 00:00: 13.00-	ment, Casing, 3,194.00; 1977-06-29;
,825.1	+	-KIRTLAND (KIRTLAND (fin	al))			CEMENT	W/ 250 SXS 0	LASS 'B' 65/35 POZ T/SX GILSONITE.
,492.1	-					TAIL W/ 1	00 SXS CLAS	S 'B' W/ 1/4 CUFT/SX
,500.0	-					GILSONIT		L2. CIRCULATED TO
,549.9	+	2 3/8in, Tubing; 2 3/8 in; 4.7						
,878.9	-	3,051.1ftKB, 7/4/1977,	tKB; 5,436.00 ftKB 4-1/2" TIW PROD					
,051.2	-		NER TOP @ 3051'	14	HT W			
.060.7								
,070.9								
071.9		-LEWIS (LEWIS (final))						
109.6								
192.9						2: Interme	diate1, 3 194	00ftKB; 7 in; 6.46 in;
193.9						12.96 ftKB	; 3,194.00 ftK	В
,959.0	-	-CHACRA (CHACRA (final))				00:00; 3,0	51.12-5,526.0	nent, Casing, 7/4/1977 0; 1977-07-04; TOC
,428.1	-	MESA VERDE (MESA VERI	DE (final)) ———					A. CEMENT W/ 250 GEL, 1/4 CUFT/SX
,609.9	-						E & 0.6% HA	
611.9	-							
,660.1	-					4 660 0 5	014 OffKB on	10/22/1977 00:00
,732.0		-MENEFEE (MENEFEE (fina	al))	2-308 - 508		(PERF - C	LIFF HOUSE	/ MENEFEE UPPER);
,014.1	-	POINT LOOKOUT (DOWN	OOKOLE #			4,080.00-8	5,014.00; 1977	-10-22
,144.0		-POINT LOOKOUT (POINT	LOOKOUF (1			5 162 0-5	300 OffKB on	10/22/1977 00:00
162.1						(PERF - P	OINT LOOK	OUT); 5,162.00-
341.9						5,300.00;	1977-10-22	
342.8								
361.9						E 200 0 C	407.08//8	10/22/4077 00:001
436.0		2 3/8in, Pump Seatin 5,436.00	ig Nipple; 2 3/8 in; fKB; 5,437.00 ftKB			(PERF - P	OINT LOOK	10/22/1977 00:00 DUT); 5,362.00-
437.0		2 3/8in, Tubing; 2 3/8	in; 4.70 lb/ft; J-55;			5,497.00;	1977-10-22	
469.2		2 3/8in, Expendable Check						
,470.1			tKB; 5,470.00 ftKB		100			
497.0								nent, Casing, 7/4/1977
,508.9	-	<typ></typ>	(PBTD); 5,509.00	and array the		TOC 3051	BY CIRCUL	5,526.00; 1977-07-04; ATION. CEMENT W/
.509.8	-						LASS 'B' W/ 4 E & 0.6% HA	4% GEL, 1/4 CUFT/SX
,524.9	-							
,525.9							tion1, 5,526.0 KB; 5,526.00	0ftKB; 4 1/2 in; 4.05 in; ftKB





Received by OCD: 2/16/2023 11:32:38 AM

 Bit No.
 Dr.N. A3003, NM 332404

 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: (575) 324 6178 Fax: (575) 324 6170

Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

UL - Lot

Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-045-22419	71629	BASIN FRUITLAND COAL (GAS)
4. Property Code	5. Property Name	6. Well No.
319332	RIDDLE E COM	001A
7. OGRID No.	8. Operator Name	9. Elevation
372171	HILCORP ENERGY COMPANY	6116

10. Surface Location

	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Н	4	30N	09W		1510	N	890	E	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 A 323			13. Joint or Infill		14. Consolidatio	n Code		15. Order No.	

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

OPERATOR CERTIFICATION 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: Julie Title: Operations Regulatory Tech Sr. Date: 1/18/2023
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: David Kilven Date of Survey: 3/14/1977 Certificate Number: 1760

Received by OCD: 2/2/2023 1:31:19 PM

Page 7 of 15

Received b	by OCD:	2/16/2023[11132?38MM
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Submit Electronically

Via E-permitting

State of New Mexico Energy, Minerals and Natural Resources Department

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

<u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

I. Operator: Hilcorp Energy Company

OGRID: <u>372171</u> Date: <u>2/1/2023</u>

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Riddle E Com 1A	30-045-22419	H-04-30N-09W	1510 FNL 890 FEL	0	500	1

IV. Central Delivery Point Name: Chaco Gas Plant [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Riddle E Com 1A	30-045-22419					2023

VI. Separation Equipment:
Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: \Box Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices:
Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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):

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).

 \Box 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:

 \square 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.

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
 - o 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.

Hilcorp Energy Interim Reclamation Plan Riddle E COM 1A API: 30-045-22419 Unit H – Sec 04-T30N-R9W Lat:36.843287, Long: -107.779604 Footage: 1510' FNL & 890' FEL San Juan County, NM

- 1. PRE- INTERIM RECLAMATION SITE INSPECTION
 - 1.1) A pre-interim reclamation onsite inspection was conducted on January 24, 2023 with BLM Environmental Protection Specialist Roger Herrera and Bobby Spearman Construction Foreman for Hilcorp Energy.
 - 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 be completed after well recompletion.
 - 2.2) Location tear drop will be re-defined as applicable during interim reclamation.
 - 2.3) All disturbed areas will be seeded, any disturbed areas that are compacted will be ripped before seeding.
 - 2.4) 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.

- 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	182106
	Action Type:
	[C-103] NOI Recompletion (C-103E)

CONDITIONS

CONDITION	-	
Created By		Condition Date
kpickford	DHC required	2/6/2023
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	2/6/2023

Page 28 of 37

From:	<u>McClure, Dean, EMNRD</u> on behalf of <u>Engineer, OCD, EMNRD</u>
To:	Mandi Walker; Cheryl Weston; Laura Bohorguez
Cc:	McClure, Dean, EMNRD; Rikala, Ward, EMNRD; Wrinkle, Justin, EMNRD; Powell, Brandon, EMNRD; Paradis, Kyle
Subject:	Approved Administrative Order DHC-5312
Date:	Sunday, August 13, 2023 1:56:56 PM
Attachments:	DHC5312 Order.pdf

NMOCD has issued Administrative Order DHC-5312 which authorizes Hilcorp Energy Company (372171) to downhole commingle production within the following well:

Well Name: Riddle E Com #1A Well API: 30-045-22419

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

From:	Mandi Walker
To:	McClure, Dean, EMNRD
Cc:	Cheryl Weston
Subject:	FW: [EXTERNAL] Action ID: 187159; DHC-5312
Date:	Thursday, August 10, 2023 7:06:27 AM

Dean,

Please see the response from Lea below.

Thank you,

Mandí Walker SJN/SJS (6,7) Regulatory Technician Sr. Office: 346.237.2177 <u>mwalker@hilcorp.com</u>

From: Lea Peters <lpeters@hilcorp.com>
Sent: Thursday, August 10, 2023 8:03 AM
To: Mandi Walker <mwalker@hilcorp.com>
Cc: Cheryl Weston <cweston@hilcorp.com>
Subject: RE: [EXTERNAL] Action ID: 187159; DHC-5312

Dean,

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:

3004521991	Pierce 3A	MV
3004528921	Johnston Federal 28R	FRC

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.

Lea Peters | Reservoir Engineer, SJN | Hilcorp Energy O: 346-237-2071 | <u>lpeters@hilcorp.com</u> 1111 Travis St. | Houston, TX | 77002 From: Mandi Walker <<u>mwalker@hilcorp.com</u>>
Sent: Wednesday, August 9, 2023 1:34 PM
To: Lea Peters <<u>lpeters@hilcorp.com</u>>
Cc: Cheryl Weston <<u>cweston@hilcorp.com</u>>
Subject: Fwd: [EXTERNAL] Action ID: 187159; DHC-5312

Lea, can you send some info to Dean on the BHP?

Thanks!! Mandi

Get Outlook for iOS

From: McClure, Dean, EMNRD <<u>Dean.McClure@emnrd.nm.gov</u>>
Sent: Wednesday, August 9, 2023 4:31 PM
To: Mandi Walker <<u>mwalker@hilcorp.com</u>>
Cc: Cheryl Weston <<u>cweston@hilcorp.com</u>>
Subject: [EXTERNAL] Action ID: 187159; DHC-5312

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Amanda Walker for Hilcorp Energy Company),

The Division is reviewing the following application:

Sub. Date	2/16/2023
Title	Riddle E Com #1A
Applicant	Hilcorp Energy Company (372171)
Admin No.	DHC-5312
Action ID	187159

Please provide the following additional supplemental documents:

•

Please provide additional information regarding the following:

• Please provide additional information regarding from where the BHP is derived.

Additional notes:

٠

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-5312

<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-5312

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. Applicant shall allocate a fixed percentage of the oil production from the Well to each of the Pools until a different plan to allocate oil production is approved by OCD. Of the oil production from the Well:
 - a. zero percent (0%) shall be allocated to the BASIN FRUITLAND COAL (GAS) pool (pool ID: 71629); and
 - b. one hundred percent (100%) shall be allocated to the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319).

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

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

The current pool(s) are:

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

Applicant shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, Applicant shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If Applicant fails to do so, this Order shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Order shall terminate 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.

3. If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Order to become inaccurate, then no later than sixty (60) days after that event, Applicant shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Order shall terminate on the date of such action.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DATE: 8/13/2023

DYLANM. EGG DIRECTOR

	Exhibit A		
	Order: DHC-5312		
	Operator: Hilcorp Energy Co	mpany (372171)	
	Well Name: Riddle E Com #1A	1	
	Well API: 30-045-22419		
	Pool Name: BASIN FRUITLAND	O COAL (GAS)	
Upper Zone	Pool ID: 71629	Current:	New: X
	Allocation:	Oil: 0%	Gas:
	Interval: Perforations	Top: 2,550	Bottom: 2,879
	Pool Name:		
Intermediate Zone	Pool ID:	Current:	New:
Intermediate Zone	Allocation:	Oil:	Gas:
	Interval:	Тор:	Bottom:
Bottom of Inter	val within 150% of Upper Zone's To	op of Interval:	
	Pool Name: BLANCO-MESAVE	RDE (PRORATED GAS)	
Lower Zone	Pool ID: 72319	Current: X	New:
Lower Zone	Allocation:	Oil: 100%	Gas:
	Interval: Perforations	Top: 4,660	Bottom: 5,497
Bottom of Inter	val within 150% of Upper Zone's To	op of Interval: NO	

State of New Mexico Energy, Minerals and Natural Resources Department

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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	187159
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

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.	8/13/2023

CONDITIONS

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Action 187159

Released to Imaging: 8/13/2023 2:03:11 PM

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