1, 1, 1	Wrate District	C - 546 1 ate of New	w Mayico		Form (SIA3)
Office		Energy, Minerals and		•	52953 Page 1 of Form C-103 Revised July 18, 2013
<u>District I</u> – (575) 393-6163 1625 N. French Dr., Hobb		Energy, witherars and	Tratulal Resources	WELL API NO.	
<u>District II</u> – (575) 748-128	33	OIL CONSERVAT	NOISIVID NOIT	30-04	5-38408
811 S. First St., Artesia, N District III – (505) 334-61		1220 South St		5. Indicate Type of	Lease
1000 Rio Brazos Rd., Azte	ec, NM 87410	Santa Fe, N		STATE	FEE 🗵
<u>District IV</u> – (505) 476-34 1220 S. St. Francis Dr., Sa		ŕ		6. State Oil & Gas I	Lease No.
87505	unta i c, ivivi	ID NO. 4	19565		
		ES AND REPORTS ON W		7. Lease Name or U	nit Agreement Name
		LS TO DRILL OR TO DEEPEN ΓΙΟΝ FOR PERMIT" (FORM C-		77.4	XAHE.
PROPOSALS.)			101) 1 011 50 011	8. Well Number 2N	YNIE
1. Type of Well: Oi		as Well 🛛 Other			\
2. Name of Operator				9. OGRID Number	0171
3. Address of Operation	ergy Company			10. Pool name or W	2171
	100, Aztec, NM	87410			rde / Basin Dakota
4. Well Location	100, Azice, IVIVI	0/410		Dianco Mesave.	Tuc / Busin Bakota
	D. 762 foot fo	and the Mark Parant 3	1600 feet from the Feet	1	
_		om the North line and			
Section		vnship 030N Range 01		County SAN JUAN	
	-	11. Elevation (Show wheth		2.)	
			5784' GL		
1/	O CI 1 A	'	ANT CNT !	D (04 D	
12	2. Check App	ropriate Box to Indica	te Nature of Notice,	Report or Other Dat	ta
NOT	ICE OF INTI	ENTION TO:	SUI	BSEQUENT REPO	ORT OF:
PERFORM REMEDIA		PLUG AND ABANDON			LTERING CASING
TEMPORARILY ABA		CHANGE PLANS			AND A
PULL OR ALTER CA		MULTIPLE COMPL			_
DOWNHOLE COMM			o/tolito/ozikizi	11 005	
CLOSED-LOOP SYS					
OTHER:		DETRACK	OTHER:	П	
					aluding actimated data
		d operations (Clearly state	e all pertinent details, an	d give pertinent dates in	icilianno esimpalea dale
13. Describe propo	osed or completed	d operations. (Clearly state SEE RULE 19 15 7 14 N			
13. Describe propo of starting any	osed or completed proposed work).	SEE RULE 19.15.7.14 N			
13. Describe propo of starting any	osed or completed	SEE RULE 19.15.7.14 N			
13. Describe propo of starting any proposed comp	osed or completed proposed work). Deletion or recomp	SEE RULE 19.15.7.14 N oletion.	MAC. For Multiple Con	mpletions: Attach wellb	oore diagram of
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Conditions of Approval (if any)

Released to Imaging: 2/25/2025 4:05:54 PM

CONDITIONS OF APPROVAL

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 Permit to become inaccurate, then no later than sixty (60) days after that event, the Operator 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 Permit shall terminate on the date of such action.

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 the Operator shall submit a new downhole commingling application to OCD to amend this Permit to remove the pool that caused the decrease in value. If the Operator fails to submit a new application, this Permit shall terminate on the following day, and if OCD denies the application, this Permit shall terminate on the date of such action.

If a completed interval of the Well is altered from what is submitted within this application, then no later than sixty (60) days after the alteration, the Operator shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.

The Operator shall utilize production logs to allocate gas production from the Well to each of the Pools. Once the gas allocation is determined, the Operator shall then consider the gas oil ratio for each pool to allocate oil production from the Well to each of the Pools. The Operator shall conduct a production log:

- a. following the initial completion;
- b. three (3) months after the initial completion;
- c. six (6) months after the initial completion;
- d. twelve (12) months after the initial completion;
- e. annually thereafter until the allocation has stabilized; and
- f. additionally, as directed by OCD.

No later than ninety (90) days after conducting each production log, the Operator shall submit a Form C-103 to the OCD Engineering Bureau that includes the results of the production log and the oil and gas allocations for each of the Pools. Upon request from OCD, the Operator shall provide documentation supporting the allocations and if OCD determines that the allocations are inaccurate, the Operator shall proceed as directed by OCD.

Once the allocations have stabilized, the Operator shall submit a Form C-103 to the OCD Engineering Bureau that includes a tabulation of the oil and gas allocation following each of the conducted production logs and a proposed fixed percentage for allocating the oil and gas production from the Well to each of the Pools. If OCD approves the proposed fixed percentage, then the Operator shall allocate accordingly. If OCD denies the proposed fixed percentage, then the Operator shall continue conducting annual production logs.

A production log shall consist of either using a turbine/spinner flowmeter to determine the stabilized flow rate from each of the Pools under normal operating conditions or by another method OCD has specifically approved.

C-102
Submit Electronically
Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 2024
0	☑ Initial Submittal
Submittal Type	☐ Amended Report
. , , , , ,	☐ As Drilled

WELL LOCATION INFORMATION

					WELL	LUCATION	INFUHI	MA I 1UN				
API Number 30-045-38408 Pool Code 72						72319 Pool Name			BLANCO MESAV	ERDE		
Property Code Property Name 321941					НАҮР	YNIE Well Number 2N						
OGRID	No.	372171		Opera	ator Name H]	ILCORP ENEF	RGY COMF	PANY	(Ground Level Elevation 5784'		
Surface	Owner:	☐ State	⊠ Fee □	Tribal	□ Federal		Mineral O	wner: □ State 🛛 Fee	□ Tr	ribal □ Federal		
	Surface Location											
u. B	Section 4	Township 30N	Range 11W	Lot 2	Feet from N/S Line 762' NORTH	Feet from E/W L 1680'	ine EAST	Latitude 36.846129	°N	Langitude -107.99295	51 °W	County SAN JUAN
					E	Bottom Hole	Locatio	on				
uL H	Section 4	Township 30N	Range 11W	Lot	Feet from N/S Line 1697' NORTH	Feet from E/W L	ine EAST	Latitude 36.843552	°N	Longitude -107.9913	17 °W	County SAN JUAN
	ed Acres	N .			Spacing Unit:	Infill or Def	ining Well	Defining Well API	Overl	apping Spacing Unit	Consoli	dation Code
319	9.80	IN	//2 - Se	SCTION	4, T30N, R11W	Infill		30-045-24181		Yes 🛛 No	С	
Order 1	Numbers						Well setba	acks are under Common Own	nership:	: 🛛 Yes [] No	
						Kick Off Po	int (KO	P)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W L	ine.	Latitude		Longitude		County
	•	•			F	irst Take P	oint (F	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W L	ine.	Latitude		Langitude		County
					L	ast Take Po	oint (Li	TP)	<u></u>			
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W L	ine.	Latitude		Langitude		Caunty
		•							•			
Unitize	d Area or	Area of Un	iform Inter	est	Spacing Unit Type	izontal 🗆	Vertical	l ⊠ Directiona]	1	Ground Floor Elevat		
				_								
		0	 PFRAT(OR CEI				SURVE	EYOR	CERTIFICAT	ION	

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Cherylene Weston	12/10/2024
Signature	Date
Cherylene Weston, Operations/Regulatory	Tech-Sr.
Printed Name	

cweston@hilcorp.com

E-mail Address

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.



JASON C. EDWARDS

Signature and Seal of Professional Surveyor

Certificate Number 15269

Date of Survey NOVEMBER 11, 2024

C - 102Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 2024					
5 1 11 2	☑ Initial Submittal					
Submittal Type	☐ Amended Report					
.) [2	☐ As Drilled					

					WELL	LOCATION	INFORM	MATION				
API Number Pool Code 30-045-38408					Code 7159	71599		Pool Name		BASIN DAKO	ТА	
Property Code Property Name 321941					НАҮР	NIE	·	И	Vell Number	2N		
OGRID	No.	372171		Opera	ator Name H]	ILCORP ENEF	RGY COMF	PANY	G	Ground Level Elevatio	n 57	784'
Surface	e Owner:	☐ State	⊠ Fee □	Tribal	□ Federal		Mineral Ov	wner: □ State ⊠ Fee	☐ Tr	ribal □ Federal		
	Surface Location											
uL B	Section 4	Township 30N	Range 11W	Lot 2	Feet from N/S Line 762' NORTH	Feet from E/W L 1680'		Latitude 36.846129	*N	Longitude -107.99295	51 °W	County SAN JUAN
					E	Bottom Hole	Locatio	on				
uL H	Section 4	Township 30N	Range 11W	Lot	Feet from N/S Line 1697' NORTH	Feet from E/W L 1196'	ine EAST	Latitude 36.843552	°N	Langitude -107.99131	17 °W	County SAN JUAN
	ed Acres				pacing Unit:	Infill or Def	ining Well	Defining Well API	Overla	apping Spacing Unit	Consoli	dation Code
319	9.80	N	1/2 - Si	ection	4, T30N, R11W	Infill		30-045-24181		Yes 🛛 No	С	
Order I	Numbers						Well setba	acks are under Common Own	nership:	X Yes [] No	
						Kick Off Po	int (KO	P)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W L	ine	Latitude		Longitude		County
	I	I	1		Fi	irst Take P	Point (F	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet fram E/W L	ine.	Latitude		Longitude		County
					L	ast Take Po	oint (Li	Τ P)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W L	ine.	Latitude		Longitude		Caunty
								1				
Unitize	d Area or	Area of Un	iform Inter	est	Spacing Unit Type	izontal 🗆	Vertical	l ⊠ Directiona]	l	Ground Floor Elevat		
		0	PERATO	DR CEI	RTIFICATION			SURVE	EYOR	CERTIFICAT	ION	

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Cherylene Weston	12/10/2024
Signature	Date
Cherylene Weston, Operations/Regu	latory Tech-Sr.
Printed Name	

cweston@hilcorp.com E-mail Address

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.



JASON **L**DWARDS

Signature and Seal of Professional Surveyor

Certificate Number 15269

Date of Survey NOVEMBER 11, 2024

REVENUE ALLOCATION PROCEDURE

DAKOTA/MESAVERDE WELLS

- 1.) Frac and flowback the Dakota formation
- 2.) Frac and flowback and clean up Mesaverde formation
- 3.) Stabilize MV flow up casing against area line pressure
- 4.) Record a MV flow rate through a choke using an orifice meter
- 5.) Drill out bridge plug over DK formation
- 6.) Cleanup DK formation
- 7.) Run Spinner production profile across Dakota formation
- 8.) Add MV flow rate from previous test to DK flow rate from spinner to get total flow
- 9.) Allocation is based upon MV or DK rates as a percentage of total flow

Once allocation is established, it will be used for the life of the well. Below is a summary of how the testing is performed.

Field Test (Spinner Method)

Summary

This example covers the procedure used to allocate production using the spinner method with field tests. This method was used by ConocoPhillips prior to the Burlington Resources acquisition and has been chosen as the preferred allocation method on all future Mesaverde/ Dakota commingled wells. The allocation is based on two separate tests. The first is a stabilized rate test on the Mesaverde up the casing-tubing annulus with line pressure simulated by a choke at the surface. The second test is performed by running a production log over the Dakota interval. The rate from each layer is used in a simple calculation to determine the contribution percentage.

Procedure

Allocation testing is performed after the well has been completed. A composite bridge plug is normally located above the DK and a composite frac plug is sometimes located within the MV.

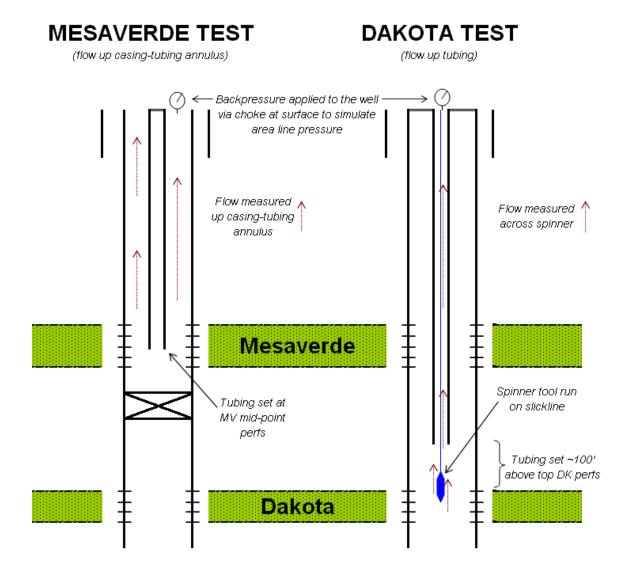
The first step in testing the MV is drilling out the plugs and cleaning out the well. Once water and sand volumes reach acceptable levels (less than 5 bph), the tubing is set at the mid-point of MV perfs. The well is then opened to flow up the casing-tubing annulus with a positive choke at the surface to simulate a back-pressure on the well. The MV is tested for a minimum of 4 hours or until pressure stabilizes. Tubing and casing pressures are reported every 15 minutes and when pressure is the same three times then it is considered stabilized. Metered gas, water, and condensate rates and volumes are all documented as well as testing conditions (tubing location, choke size, pressures).

After the MV has been tested, the composite drill plug over the DK is drilled out and the well is cleaned out to PBTD. Once the water and sand volumes reach acceptable levels (less than 5

bph), the bottom-hole assembly is configured and the tubing is landed approximately 100 feet above the DK perfs. A slickline or wireline unit is used to run the production loggings tools. The logging tools are lowered to the bottom perfs and the DK interval is logged while the well is producing up the tubing against a choke. Once again, the well is tested for a minimum or 4 hours or until the pressure has stabilized. The log is run across the entire DK interval to 50 feet above the top DK perforation. The log data is interpreted by the service company and returned to the completions group within a few days.

The stabilized MV rate is combined with the stabilized DK rate to come up with a total well production rate. The ratio of the MV rate to the total rate is used as the MV allocation percentage and the same is done for the DK. An example test and corresponding calculations are included in the report.

Diagram



Example- San Juan 31-6 Unit 40G

After the MV has been cleaned up and the well has stabilized, the MV is tested at 1,306 Mcfd (see report below). The test was performed up the tubing-casing annulus (4.5" casing/ 2.38" tubing) with a ½" choke at surface. The stabilized flowing casing pressure was 198 psi, which is similar to line pressure in the area.

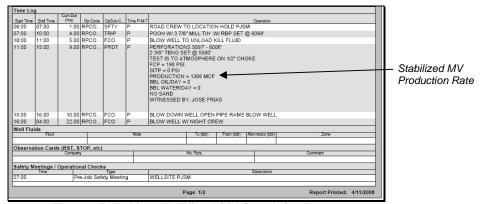


Figure 1: Pulled from WellView Initial Completion Report

The DK is then cleaned up and the logging tools are run. The reports from ProTechnics show a total rate from the DK equal to 584 Mcfd (see report below). The test was performed at a flowing tubing pressure of 125 psi with a ½" choke at surface.

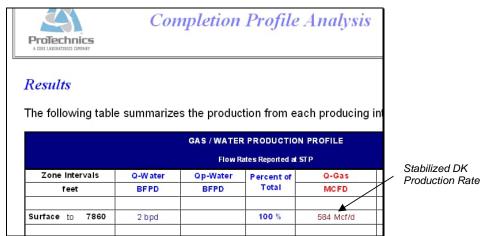


Figure 2: Pulled from Protechnics Report, pg. 6

The allocation is calculated as follows and an allocation form is completed for the well. See Appendix for allocation form, WellView report, and ProTechnics report including production logs.

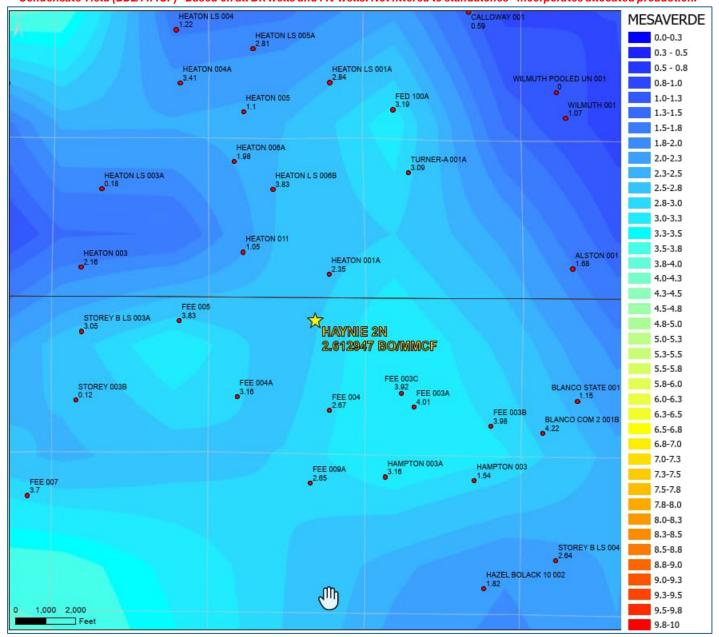
MV Rate	1306	% MV= 1306/1890=	69%
DK Rate	584	% DK= 584/1890=	31%
Total Rate	1890		

Oil Allocation:

Oil production will be allocated utilizing GOR in terms of oil yield based on actual production from offset Dakota and Mesaverde wells. Once gas allocation split is obtained from spinner, oil yield values will be applied to get final oil allocation split.

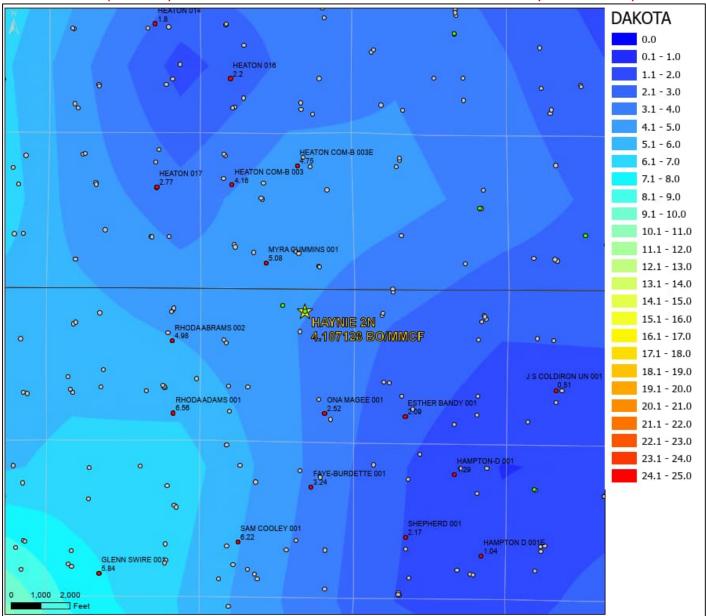
MESAVERDE OIL YIELD MAP

**Condensate Yield (BBL/MMCF) - Based on all DK wells and MV wells. Not filtered to standalones - incorporates allocated production.



DAKOTA OIL YIELD MAP

**Condensate Yield (BBL/MMCF) - Based on all DK wells and MV wells. Not filtered to standalones - incorporates allocated production.





February 25, 2025

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

Re: C-103 (Downhole Commingle)

Haynie #2N

API No. 30-045-38408 SHL: B-4, T30N-R11W San Juan County, NM

Gentlemen:

Concerning Hilcorp Energy Company's C-103 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) and Blanco Mesaverde (Pool Code: 72319) 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

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 419565

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	419565
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

CONDITIONS

B		Condition	Condition Date
	lowe	None	2/20/2025