

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

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**

H. L. Brown Operating, LLC P.O. Box 2237 Midland, TX 79702

Operator Federal 27 2 Unit L, Sec. 27, T-7-S R-37-E Roosevelt, NM  
 Address  
 Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 213179 Property Code API No. 30-041-20871 Lease Type: X Federal \_\_\_ State \_\_\_ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Bluitt Wolfcamp		Bluitt Devonian
Pool Code	7945' - 8152'		8800' - 8933'
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Sucker rod lift		Sucker rod lift
Method of Production (Flowing or Artificial Lift)			
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	S.I.		S.I.
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: 02/22/2019 Rates: 0/0/30	Date: Rates:	Date: 11/18/2019 Rates: 15/160/30
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 0 % Gas 50 %	Oil % Gas %	Oil 100 % Gas 50 %

**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  No \_\_\_  
 Yes \_\_\_ No \_\_\_

Are all produced fluids from all commingled zones compatible with each other?  
 Will commingling decrease the value of production?  
 Yes  No \_\_\_  
 Yes \_\_\_ No \_\_\_

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  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 Bailey Aguilar TITLE Production Analyst DATE 3-3-2022  
 TYPE OR PRINT NAME Bailey Aguilar TELEPHONE NO. (432) 688-3722  
 E-MAIL ADDRESS baguilar@hlboperating.com

## Downhole Commingle Application

### Federal 27 #2

Proposed date for work to begin: 04-01-2022

#### Procedure Description:

Downhole commingle existing wolfcamp perforations from 7,945'-7,974' ; 8,007'-8,022' ; 8,094'-8,102' ; 8,146'-8,152' ; with existing Devonian perforations from 8,662'-8,684' ; 8,800-8,826' ; 8,834'-8,842' ; 8,852'-8,854' ; 8,862'-8,865' in order to prevent waste and optimize ultimate recover form both zones.

- 1.) POOH w/ production equipment
- 2.) Drill out CIBP @ 8,770'
- 3.) Install production equipment
- 4.) Place on production

**Downhole commingling will not reduce value of any production.**

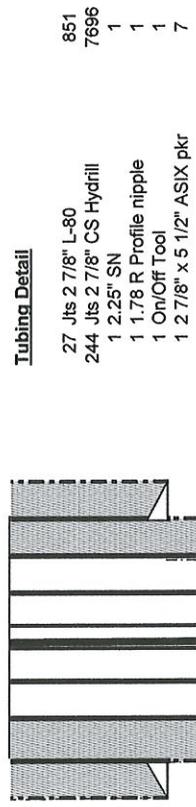
**Federal 27 #2**

Field: Blutt Wolfcamp 2590' FSL & 330 FWL, Unit L, Sec 27, T-7S, R-37E, Roosevelt County, New Mexico Elev: 4055', KB: 4066'(11') API # 30-041-20871

Spud: 9/28/93  
Initial Completion: 11/5/93

Status: Shut In

Initial: 9 BO/2 BW/230 MCF  
Current: 0 BO/0 BW/0 MCF  
Cum: 3 MBO & 581 MMCF



**Surface Casing**  
8-5/8", 32, J-55 @ 583'  
500 sxs cement, circ 200 sxs  
17-1/2" Hole

**Intermediate Casing**  
8-5/8", 32, J-55 @ 3902'  
1525 sxs, circ 200 sxs  
12-1/4"/11" hole

**Tubing Detail**

27 Jts 2 7/8" L-80	851
244 Jts 2 7/8" CS Hydril	7696
1 2.25" SN	1
1 1.78 R Profile nipple	1
1 On/Off Tool	1
1 2 7/8" x 5 1/2" ASIX pkr	7
<b>Total</b>	<b>8,557</b>

SN 8,547

**Rod Detail**

1 1 1/4" polish rod w/1 1/2" x 8' liner	22
145 7/8" rods	3,625
182 3/4" rods	4,550
12 1 1/2" sinker bars	300
1 2 1/2" x 1 1/2" x 20' RHBC pump w/1" x 10' gas anchor	20
<b>Total</b>	<b>8,517</b>

TOC @ 7,810'

**Wolfcamp**

7,945-49,51,56,58,62,64,67,69,71,74	11'	44 holes
8,007-8,022 15'	30 holes	
8,094-8,102 8'	32 holes	
8,146-8,152 6'	24 holes	

**Upper Devonain**

8,662-8,664 22' 22 holes

**Middle Devonian**

8,800-8,826' 26' 52 holes Abnd by CIBP @ 8,770'  
8,834-8,842 8' 32 holes Cmt squeezed  
8,852-8,854 2' 8 holes Cmt squeezed  
8,862-8,865 3' 12 holes Cmt squeezed

CIBP @ 8,770'

CICR @ 8,920'

**Lower Devonian**

8,926-8,933 7' 28 holes Cmt squeezed

Orig TD = 9035'  
PBTD = 8970'  
Curr PBTD = 8,770'

**Production Casing**  
5-1/2", 17# & 20#, K-55 & N-80/K-55 @ 9035'  
760 sxs, TOC @ 7,810' by CBL 11-4-93  
7-7/8" Hole

**Federal 27 #2  
Post Workover**

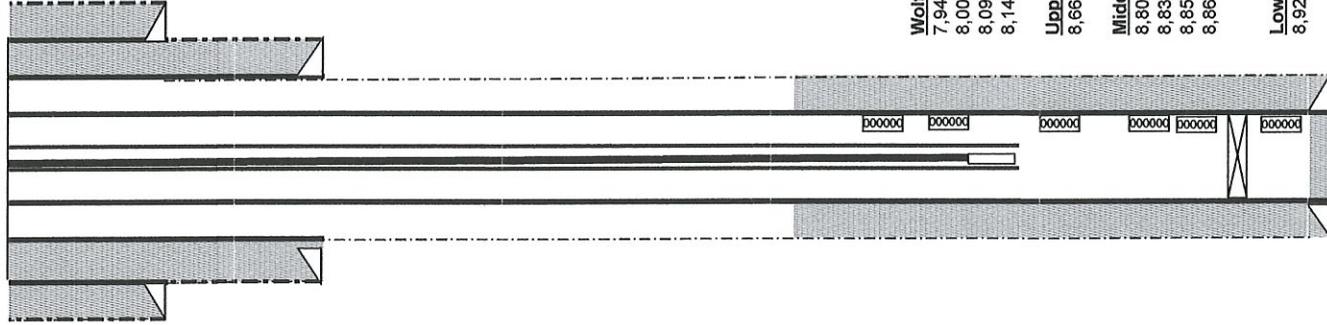
2590' FSL & 330 FWL, Unit L, Sec 27, T-7S, R-37E, Roosevelt County, New Mexico  
Elev: 4055', KB: 4066'(11) API # 30-041-20871

Field: Bluit Wolfcamp

Spud: 9/28/93  
Initial Completion: 11/5/93

**Production**  
Initial: 9 BO/2 BW/230 MCF  
Current: 0 BO/0 BW/0 MCF  
Cum: 3 MBO & 581 MMCF

Status: Producing



**Surface Casing**  
13-3/8", 55# J-55 @ 583'  
500 sxs cement, circ 200 sxs  
17-1/2" Hole

**Intermediate Casing**  
8-5/8", 32, J-55 @ 3902'  
1525 sxs, circ 200 sxs  
12-1/4"/11" hole

**Tubing Detail**

- 27 Jts 2 7/8" L-80
- 244 Jts 2 7/8" CS Hydrill
- 1 2.25" SN
- 1 1.78 R Profile nipple
- 1 On/Off Tool
- 1 2 7/8" x 5 1/2" ASIX pkr

Total 0  
SN 0

**Rod Detail**

- 1 1 1/4" polish rod w/1 1/2" x 8' liner
- 145 7/8" rods
- 182 3/4" rods
- 12 1 1/2" sinker bars
- 1 2 1/2" x 1 1/2" x 20' RHBC pump w/1" x 10' gas anchor

Total 0

TOC @ 7,810'

CICR @ 8,920'

**Wolfcamp**  
7,945-49,51,56,58,62,64,67,69,71,74 11'  
8,007-8,022 15' 30 holes  
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**Upper Devonian**  
8,662-8,684 22' 22 holes

**Middle Devonian**  
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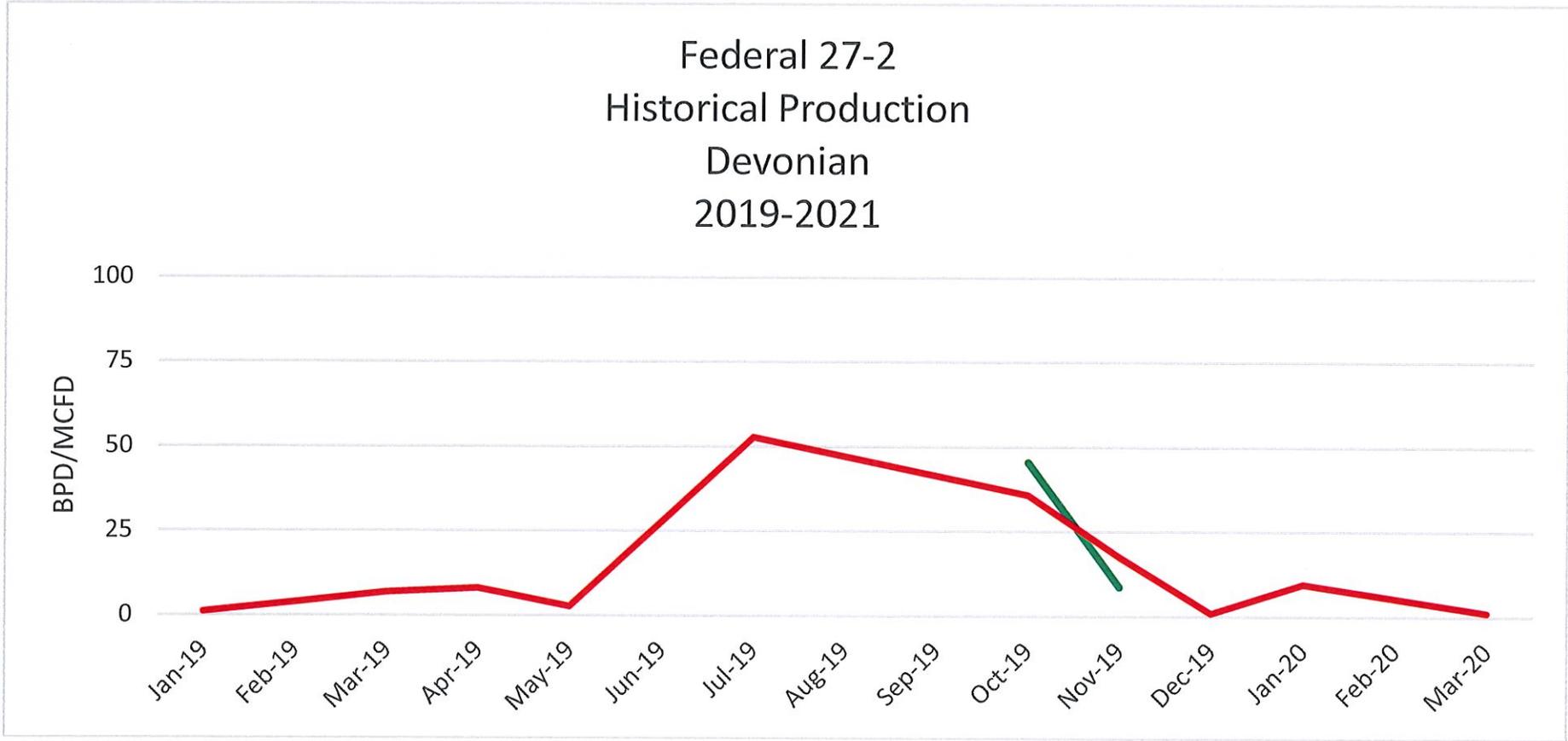
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5-1/2", 17# & 20#, K-55 & N-80/K-55 @ 9035'  
760 sxs, TOC @ 7,810' by CBL 11-4-93  
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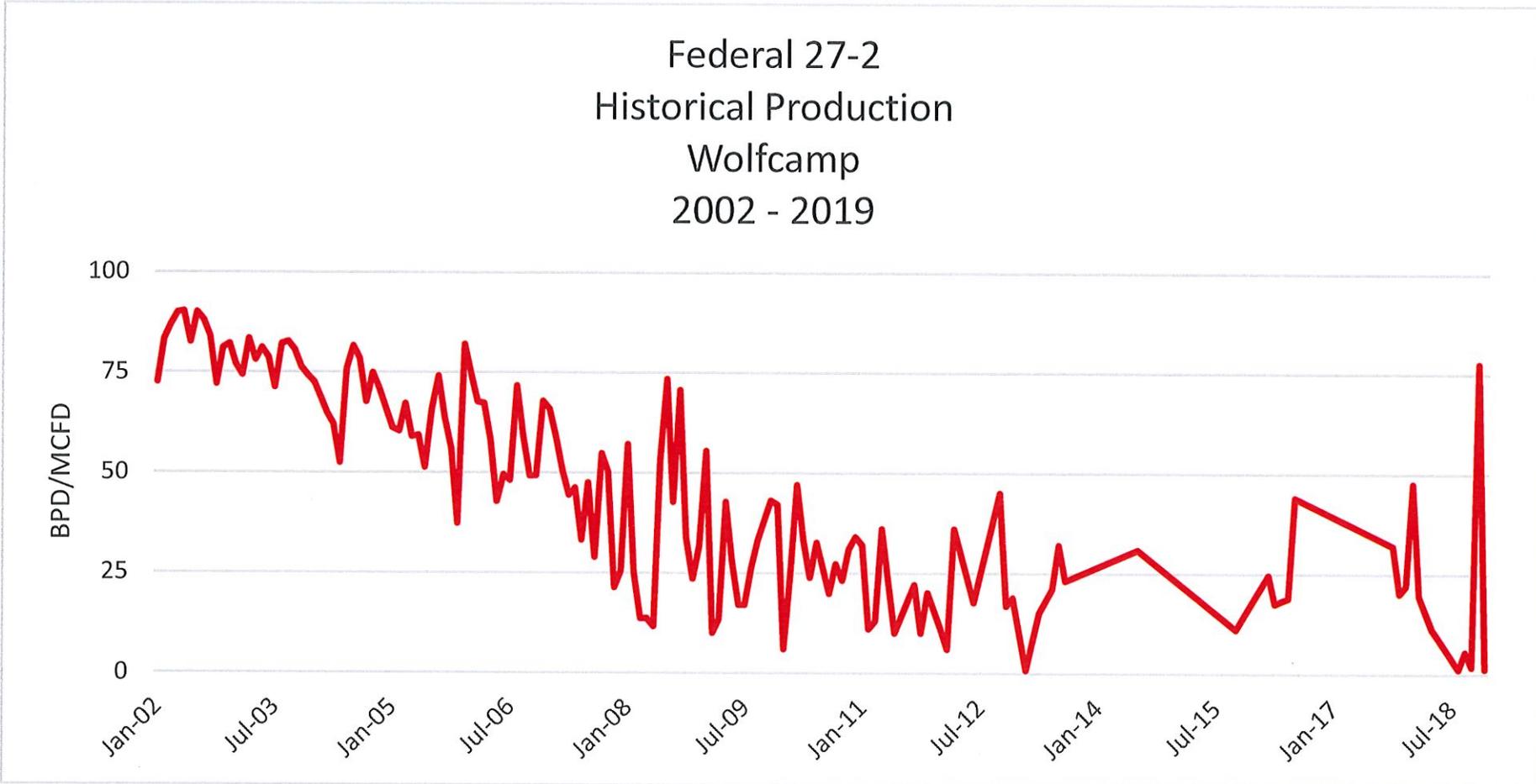
Federal 27 #2

Due to information from previous well production from each zone we would allocate as follows:

100% Oil production to Devonian

60% Gas production to Devonian ; 40% Gas production to Wolfcamp





## Downhole Commingle Application

### Federal 27 #2

Proposed date for work to begin: 04-01-2022

#### Procedure Description:

Downhole commingle existing wolfcamp perforations from 7,945'-7,974' ; 8,007'-8,022' ; 8,094'-8,102' ; 8,146'-8,152' ; with existing Devonian perforations from 8,662'-8,684' ; 8,800-8,826' ; 8,834'-8,842' ; 8,852'-8,854' ; 8,862'-8,865' in order to prevent waste and optimize ultimate recover form both zones.

- 1.) POOH w/ production equipment
- 2.) Drill out CIBP @ 8,770'
- 3.) Install production equipment
- 4.) Place on production

**Downhole commingling will not reduce value of any production.**

**From:** [Engineer, OCD, EMNRD](#)  
**To:** [Bailey Aguilar](#)  
**Cc:** [McClure, Dean, EMNRD](#); [Kautz, Paul, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); [lisa@rwbyram.com](mailto:lisa@rwbyram.com); [Glover, James](#); [Paradis, Kyle O](#); [Walls, Christopher](#)  
**Subject:** Approved Administrative Order DHC-5192  
**Date:** Monday, April 25, 2022 10:43:40 AM  
**Attachments:** [DHC5192 Order.pdf](#)

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NMOCD has issued Administrative Order DHC-5192 which authorizes H L Brown Operating, LLC (213179) to downhole commingle production within the following well:

**Well Name: Federal 27 Com #2**

**Well API: 30-041-20871**

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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

**H.L. Brown Operating, L.L.C.  
Post Office Box 2237  
Midland, Texas 79702-2237**

April 21,2022

DHC Application DHC-5192

To whom it may concern,

I have included all necessary information that was requested to process our application. Please note the Wolfcamp is a dry formation only producing gas so oil gravity was not included for that zone. The gravity shown on oil haul tickets from 2021 show that the gravity was 39.5 & 40.1 for the Devonian formation.

Please let me know if you require any further information.

Thank you,

***Bailey Aguilar***

H.L. Brown Operating, L.L.C.  
P.O. Box 2237  
Midland, TX 79702  
(432) 688-3722

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Applicant:** H. L. Brown Operating, LLC **OGRID Number:** 213179  
**Well Name:** Federal 27 #2 **API:** 30-041-20871  
**Pool:** Devonian **Pool Code:** \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement  
 DHC     CTB     PLC     PC     OLS     OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX     PMX     SWD     IPI     EOR     PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Bailey Aguilar  
Print or Type Name

Bailey Aguilar  
Signature

04/21/2022  
Date

432-683-5216  
Phone Number

baguilar@hlboperating.com  
e-mail Address

**H.L. Brown Operating, L.L.C.**  
**P.O. Box 2237**  
**Midland, Texas 79702-2237**

April 21, 2022

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Attn: Mr. Dean McClure

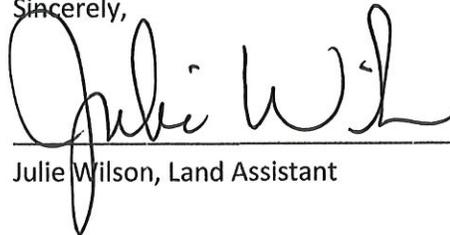
Re: Downhold Commingle DHC-5192

Hello,

I am sending this as a statement confirming that the ownership in our Federal 27 COM #2 well (API 30-041-20871) has the identical ownership in both the Devonian and Wolfcamp pools/formations that we are commingling.

If you should have any questions, please email me at [jwilson@hlboperating.com](mailto:jwilson@hlboperating.com) or call my phone directly at 432-688-3724.

Sincerely,



A handwritten signature in black ink, appearing to read 'Julie Wilson', written over a horizontal line.

Julie Wilson, Land Assistant

/jlw

Encls.

H.L. Brown Operating, L.L.C.  
Post Office Box 2237  
Midland, Texas 79702-2237

April 21, 2022

Mr. Dean McClure  
Petroleum Engineering  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division

Re: Fluid Compatibility  
H.L. Brown Operating  
Federal 27-2  
Downhole Commingling Application DHC-5192

Dear Mr. McClure,

Regarding H.L. Brown's commingling application, DHC-5192, with respect to the compatibility of fluids associated with the commingling of the Wolfcamp and Devonian formations, please be advised that there will not be any compatibility issues. The Wolfcamp is a dry gas zone and does not produce any oil or water. The Devonian zone produces oil, water, and gas. A water analysis for the Federal 27-6 is attached for your review. The Federal 27-6 is an offset well which produces from the Devonian.

In conjunction, the production optimization plan includes lift equipment capable of maintaining producing bottomhole pressures less than 100 psi. This will ensure that the producing fluid level is well below the Wolfcamp completion to prevent potential cross flow and maximize production from both the Wolfcamp and Devonian Completions.

Should you have additional questions, please do not hesitate to contact me at the numbers below.

Sincerely,



Jeff Ryan  
Operations Manager  
H.L. Brown Operating Inc  
432-683-5216 – office  
432-664-6737 - cell



Permian Basin Area Laboratory  
2101 Market Street,  
Midland, Texas 79703

REPORT DATE: 6/11/2020

COMPLETE WATER ANALYSIS REPORT SSP v.2010

Report Completed With Exception

CUSTOMER:	H.L. BROWN OPERATING, L.L.C.	ACCOUNT REP:	CODY D BOUNDS
DISTRICT:	NORTH PERMIAN	SAMPLE ID:	202001044964
AREA/LEASE:	FEDERAL	SAMPLE DATE:	5/28/2020
SAMPLE POINT NAME:	FEDERAL 27-6	ANALYSIS DATE:	6/9/2020
SITE TYPE:	WELL SITES	ANALYST:	AT
SAMPLE POINT DESCRIPTION:	WELL HEAD		

**NO PH VALUE GIVEN, UNABLE TO RUN SSP CALCULATIONS.**  
H.L. BROWN OPERATING, L.L.C., FEDERAL, FEDERAL 27-6

FIELD DATA		ANALYSIS OF SAMPLE											
		ANIONS:		mg/L		meq/L		CATIONS:		mg/L		meq/L	
Initial Temperature (°F):		250 Chloride (Cl <sup>-</sup> ):	50902.1	1435.9 Sodium (Na <sup>+</sup> ):	26512.3	1153.7							
Final Temperature (°F):		80 Sulfate (SO <sub>4</sub> <sup>2-</sup> ):	1106.1	23.0 Potassium (K <sup>+</sup> ):	668.5	17.1							
Initial Pressure (psi):		100 Borate (H <sub>3</sub> BO <sub>3</sub> ):	63.2	1.0 Magnesium (Mg <sup>2+</sup> ):	732.1	60.3							
Final Pressure (psi):		15 Fluoride (F <sup>-</sup> ):	ND	Calcium (Ca <sup>2+</sup> ):	3397.4	169.5							
		Bromide (Br <sup>-</sup> ):	ND	Strontium (Sr <sup>2+</sup> ):	132.3	3.0							
pH:		Nitrite (NO <sub>2</sub> <sup>-</sup> ):	ND	Barium (Ba <sup>2+</sup> ):	0.7	0.0							
pH at time of sampling:		Needs pH Nitrate (NO <sub>3</sub> <sup>-</sup> ):	ND	Iron (Fe <sup>2+</sup> ):	143.3	5.1							
		Phosphate (PO <sub>4</sub> <sup>3-</sup> ):	ND	Manganese (Mn <sup>2+</sup> ):	3.8	0.1							
		Silica (SiO <sub>2</sub> ):	ND	Lead (Pb <sup>2+</sup> ):	ND	0.0							
				Zinc (Zn <sup>2+</sup> ):	0.0	0.0							
ALKALINITY BY TITRATION:	mg/L meq/L			Aluminum (Al <sup>3+</sup> ):	0.0	0.0							
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ):	ND			Chromium (Cr <sup>3+</sup> ):	ND	ND							
Carbonate (CO <sub>3</sub> <sup>2-</sup> ):	ND			Cobalt (Co <sup>2+</sup> ):	ND	ND							
Hydroxide (OH <sup>-</sup> ):	ND			Copper (Cu <sup>2+</sup> ):	0.7	0.0							
				Molybdenum (Mo <sup>2+</sup> ):	ND	ND							
aqueous CO <sub>2</sub> (ppm):		ORGANIC ACIDS:	mg/L meq/L	Nickel (Ni <sup>2+</sup> ):	ND	ND							
aqueous H <sub>2</sub> S (ppm):		ND Formic Acid:	ND	Tin (Sn <sup>2+</sup> ):	ND	ND							
aqueous O <sub>2</sub> (ppb):		ND Acetic Acid:	ND	Titanium (Ti <sup>2+</sup> ):	ND	ND							
		ND Propionic Acid:	ND	Vanadium (V <sup>2+</sup> ):	ND	ND							
		Butyric Acid:	ND	Zirconium (Zr <sup>2+</sup> ):	ND	ND							
Calculated TDS (mg/L):	83599	Valeric Acid:	ND	Lithium (Li):	14.6								
Density/Specific Gravity (g/cm <sup>3</sup> ):	1.0091			Total Hardness:	11661	N/A							
Measured Specific Gravity:	1.0598												
Conductivity (mmhos):	ND												
Resistivity:	ND												
MCF/D:	No Data												
BOPD:	No Data												
BWPD:	No Data	Anion/Cation Ratio:	1.04										

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

Conditions		Barite (BaSO <sub>4</sub> )		Calcite (CaCO <sub>3</sub> )		Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O)		Anhydrite (CaSO <sub>4</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.49	2.972	0.02	1,359	-2.22	0.000	-2.47	0.000
99°F	24 psi	0.33	2.244	0.08	6,152	-2.23	0.000	-2.39	0.000
118°F	34 psi	0.21	1,510	0.18	13,086	-2.22	0.000	-2.30	0.000
137°F	43 psi	0.10	0,811	0.30	20,398	-2.20	0.000	-2.19	0.000
156°F	53 psi	0.02	0,182	0.42	27,491	-2.18	0.000	-2.08	0.000
174°F	62 psi	-0.04	0,000	0.55	34,125	-2.15	0.000	-1.95	0.000
193°F	72 psi	-0.09	0,000	0.68	40,204	-2.12	0.000	-1.82	0.000
212°F	81 psi	-0.12	0,000	0.83	46,118	-2.09	0.000	-1.69	0.000
231°F	91 psi	-0.15	0,000	0.99	51,325	-2.05	0.000	-1.55	0.000
250°F	100 psi	-0.16	0,000	1.14	55,882	-2.01	0.000	-1.40	0.000

Conditions		Celestite (SrSO <sub>4</sub> )		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO <sub>3</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-1.25	0.000	-3.08	0.000	1.55	1.906	0.69	28.844
99°F	24 psi	-1.25	0.000	-3.10	0.000	1.51	1.900	0.82	32.658
118°F	34 psi	-1.23	0.000	-3.12	0.000	1.53	1.904	0.97	36.626
137°F	43 psi	-1.21	0.000	-3.12	0.000	1.59	1.912	1.12	40.114
156°F	53 psi	-1.18	0.000	-3.13	0.000	1.66	1.921	1.27	43.017
174°F	62 psi	-1.13	0.000	-3.13	0.000	1.74	1.930	1.42	45.368
193°F	72 psi	-1.08	0.000	-3.12	0.000	1.84	1.938	1.56	47.240
212°F	81 psi	-1.01	0.000	-3.11	0.000	1.96	1.945	1.70	48.831
231°F	91 psi	-0.95	0.000	-3.10	0.000	2.08	1.951	1.84	50.054
250°F	100 psi	-0.87	0.000	-3.09	0.000	2.20	1.956	1.96	50.992

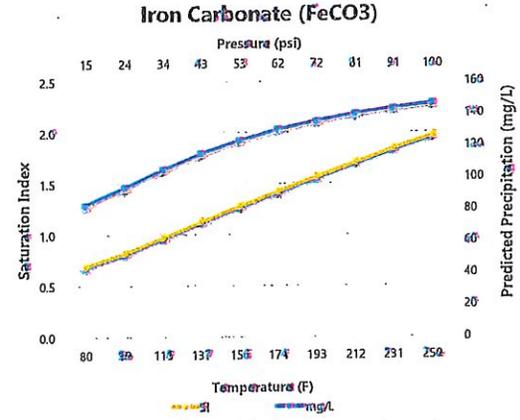
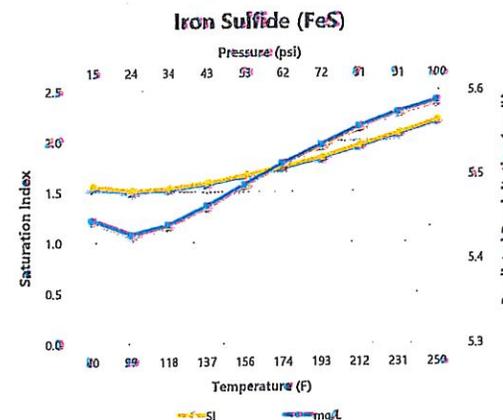
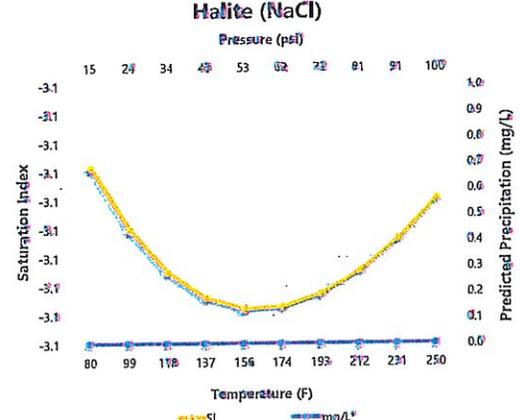
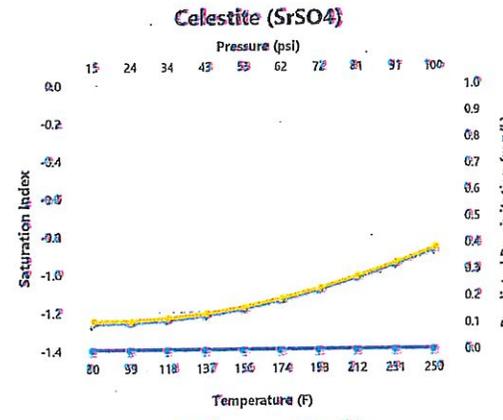
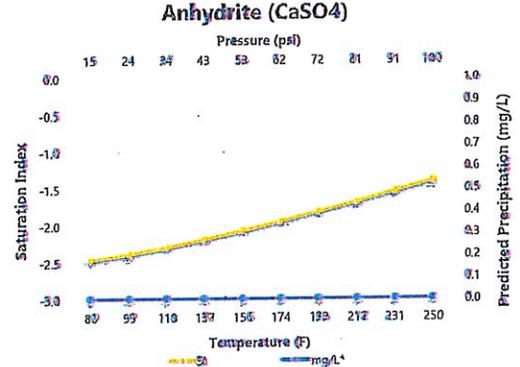
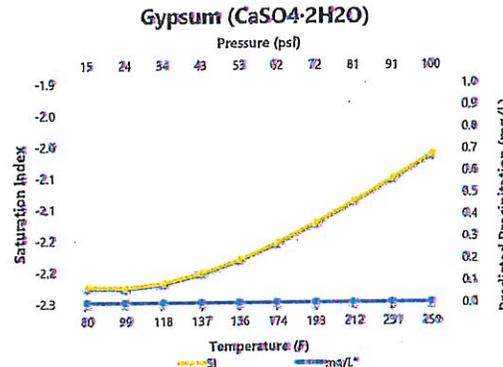
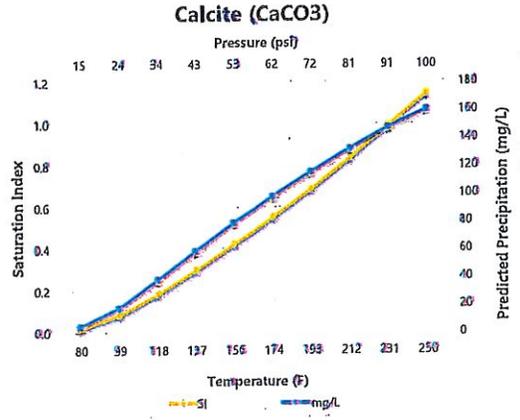
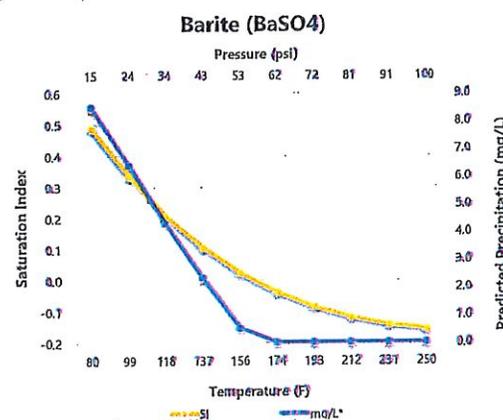
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered  
 Note 2: Precipitation of each scale is considered separately, Total scale will be less than the sum of the amounts of the eight (8) scales.  
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO<sub>2</sub> is not included in the calculations.



Comments:

NO PH VALUE GIVEN, UNABLE TO RUN SSP CALCULATIONS.

SAMPLE ID: 43979 H.L. BROWN OPERATING, L.L.C., FEDERAL, FEDERAL 27-6



SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

<b>Well Name:</b> FEDERAL 27 COM	<b>Well Location:</b> T7S / R37E / SEC 27 / NWSW /	<b>County or Parish/State:</b> ROOSEVELT / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM54449	<b>Unit or CA Name:</b> FEDERAL 27 COM	<b>Unit or CA Number:</b> NMNM91048
<b>US Well Number:</b> 300412087101S2	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> H L BROWN OPERATING, LLC

**Notice of Intent**

**Sundry ID:** 2659426

**Type of Submission:** Notice of Intent

**Type of Action:** Commingling (Subsurface)

**Date Sundry Submitted:** 03/01/2022

**Time Sundry Submitted:** 12:49

**Date proposed operation will begin:** 04/01/2022

**Procedure Description:** Downhole commingle existing wolfcamp perforations from 7,945-7,974' ; 8,007-8,022' ; 8,094-8,102' ; 8,146-8,152' with Devonian perforations from 8,662-8,684' ; 8,800-8,826' ; 8,834-8,842' ; 8,852-8,854' ; 8,862-8,865' in order to prevent waste and optimize ultimate recovery from both zones. 1.) POOH w/ production equipment 2.) Drill out CIBP @ 8,770' 3.) Install production equipment 4.) Place on production

Notice to  
BLM 3-1-22  
BFA

<b>Well Name:</b> FEDERAL 27 COM	<b>Well Location:</b> T7S / R37E / SEC 27 / NWSW /	<b>County or Parish/State:</b> ROOSEVELT / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM54449	<b>Unit or CA Name:</b> FEDERAL 27 COM	<b>Unit or CA Number:</b> NMNM91048
<b>US Well Number:</b> 300412087101S2	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> H L BROWN OPERATING, LLC

**Operator Certification**

*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 submission of Form 3160-5 or a Sundry Notice.*

**Operator Electronic Signature:**

**Signed on:**

**Name:** H L BROWN OPERATING, LLC  
**Title:** Production Analyst  
**Street Address:** 300 W LOUISIANA  
**City:** MIDLAND **State:** TX  
**Phone:** (432) 688-3722  
**Email address:** BAguilar@HLBOperating.com

**Field Representative**

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

**BLM Point of Contact**

**BLM POC Name:** JENNIFER SANCHEZ **BLM POC Title:** Petroleum Engineer  
**BLM POC Phone:** 5756270237 **BLM POC Email Address:** j1sanchez@blm.gov  
**Disposition:** Sundry Returned **Disposition Date:** 03/01/2022  
**Signature:** null

Submit to Appropriate District Office  
State Lease - 4 copies  
Private Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department



Form O-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

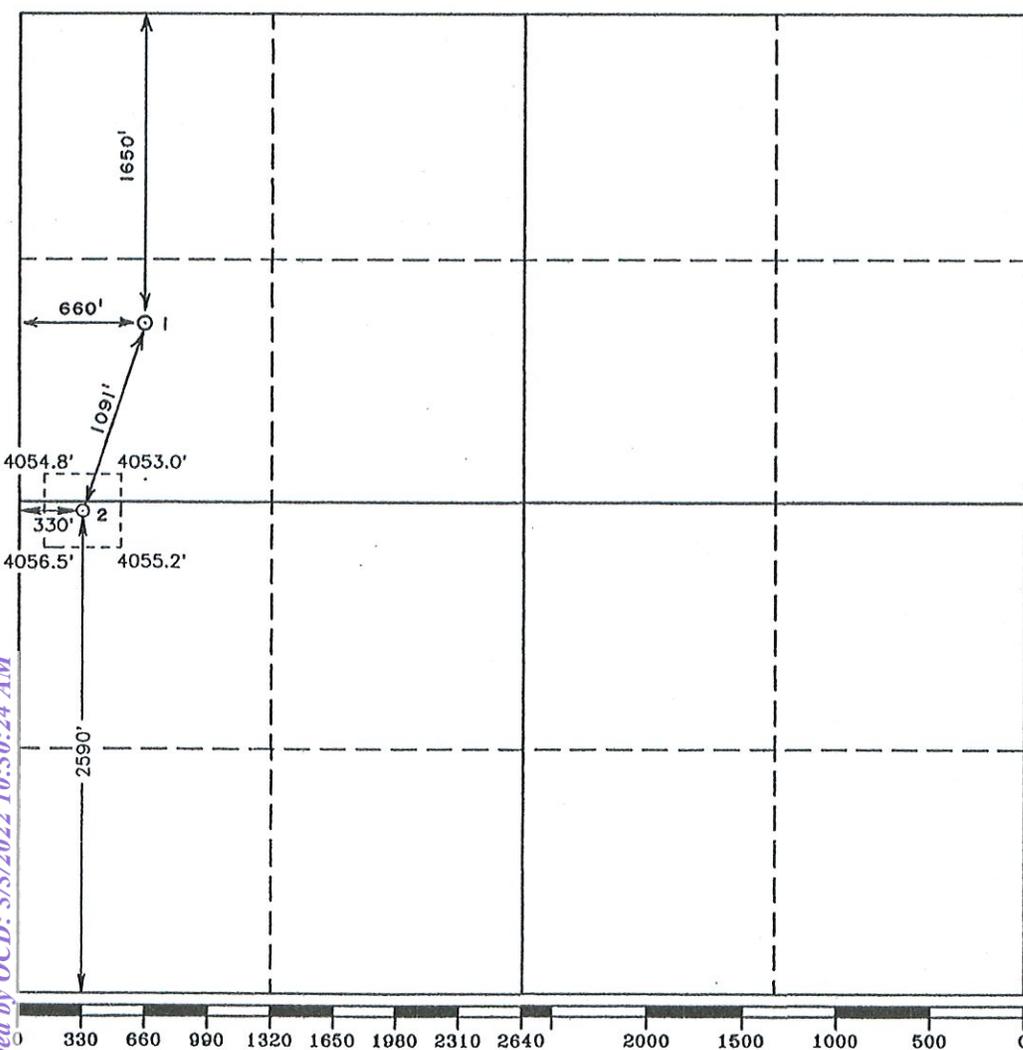
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator H.L. BROWN, JR.		Lease FEDERAL 27		Well No. 2	
Unit Letter L	Section 27	Township 7 SOUTH	Range 37 EAST NMPM	County ROOSEVELT	
Actual Footage Location of Well: 2590 feet from the SOUTH line and 330 feet from the WEST line					
Ground Level Elev. 4054.7'	Producing Formation North Bluitt	Pool Siluro - Devonian		Dedicated Acreage: 320 80 Acres	

- Outline the acreage 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 working interest and royalty).
  - If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
    - Yes  No If answer is "yes" type of consolidation \_\_\_\_\_
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature: *John T. Gray*  
 Printed Name: John T. Gray  
 Position: Production Engineer  
 Company: H. L. Brown, Jr.  
 Date: May 28, 1993

---

**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 knowledge and belief.

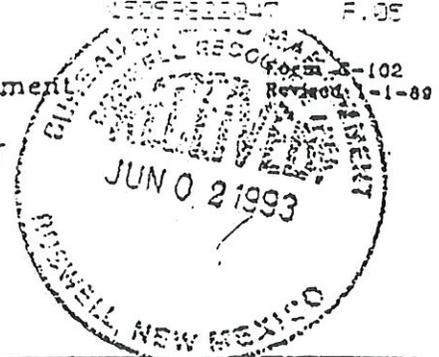
Date Surveyed: MAY 22, 1993

Signature & Seal of Professional Surveyor: *John W. West*  
 JOHN W. WEST, 676  
 PROFESSIONAL SURVEYOR, 3239  
 GUY L. JONES, 7977

93-11-0933

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088



- ACT I: 1080, Hobbs, NM 88240
- ACT II: 8800 DD, Artesia, NM 88210
- ACT III: 820 Brazos Rd., Atee, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT  
All Distances must be from the outer boundaries of the section

OWNER <b>H.L. BROWN, JR.</b>		LEASE <b>FEDERAL 27</b>		WELL NO. <b>2</b>	
SECTION <b>L</b>	SECTION <b>27</b>	TOWNSHIP <b>7 SOUTH</b>	RANGE <b>37 EAST</b>	COUNTY <b>ROOSEVELT</b>	
DISTANCE LOCATION OF WELL: <b>2590</b> feet from the <b>SOUTH</b> line and <b>330</b> feet from the <b>WEST</b> line					
ELEVATION <b>4054.7'</b>		POOL <b>Wolfcamp 800</b> <del>Siluro-Devonian</del> <b>12/30/93</b>		DEDICATED ACREAGE <b>320</b> Acres	

Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

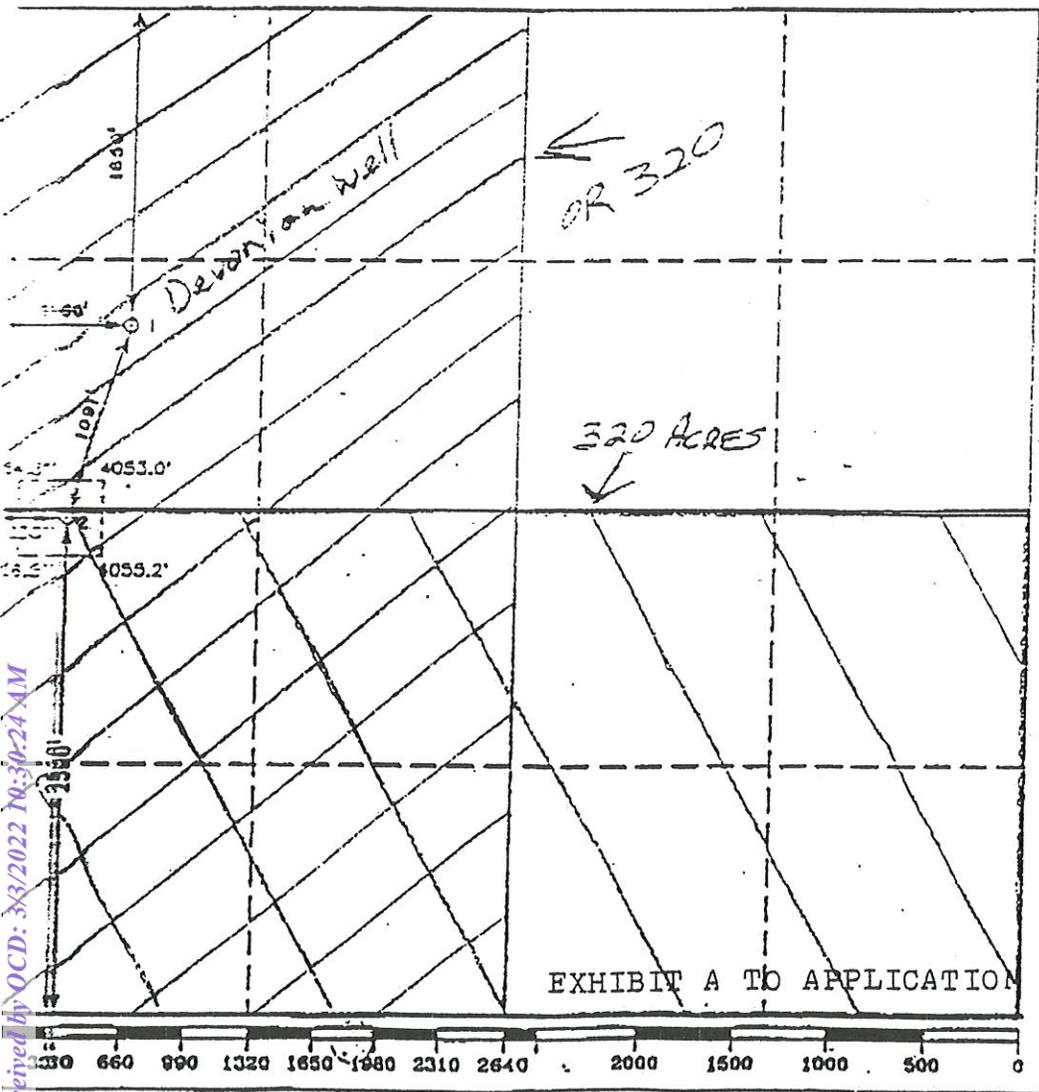
If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.?

Yes  No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of form necessary.)

If allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, etc.) or until a non-standard unit, eliminating such interest, 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.

Signature: *John T. Gray*  
Printed Name: **John T. Gray**  
Position: **Production Engineer**  
Company: **H. L. Brown, Jr.**  
Date: **May-28, 1993**

---

**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 knowledge and belief.

Date Surveyed: **MAY 22, 1993**

Signature & Seal of Professional Surveyor: *Robert Jones*  
Professional Surveyor: **ROBERT JONES**  
New Mexico: **7077**

Certificate No. **676**  
Professional Engineer: **3239**  
Professional Land Surveyor: **7077**

93-11-0933



# LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: American Valve & Meter  
Attention: Jerry Martin  
P. O. Box 166  
Hobbs, New Mexico 88241

Sample: Sta#  
Identification: Federal 27 # 2  
Company: HL Brown  
Lease:  
Plant:

Sample Data: Sample Date: 11/30/2018  
Analysis Date: 12/3/2018  
Sample Temp:  
Sample Press.: 50 PSIA

Sampled by: D Stewart  
Analysis by: T Galvan  
Atmos Temp:  
Sample Time:

H2S = 2 PPM

Press. Base: 14.73

### Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	7.496		
Methane	C1	67.753		
Carbon Dioxide	CO2	0.239		
Ethane	C2	8.039	2.149	2.144
Propane	C3	5.465	1.505	1.502
I-Butane	IC4	1.148	0.376	0.375
N-Butane	NC4	3.756	1.184	1.181
I-Pentane	IC5	1.458	0.528	0.532
N-Pentane	NC5	1.996	0.866	0.722
Hexanes Plus	C6+	<u>2.650</u>	<u>1.150</u>	<u>1.147</u>
		100.000	7.758	7.603

### REAL BTU/CU.FT.

At 14.65	1398.7 Dry
	1375.8 Wet
At 14.696	1403.1 Dry
	1380.1 Wet
At 14.73	1406.4 Dry
	1383.3 Wet

### Specific Gravity:

Calculated	(Real)	0.891
	(Ideal)	0.887

Remarks:

Wolfcamp Gas



Critical Control Energy Services

Bossier City, Louisiana  
 1408 Alpine Boulevard  
 Bossier City, LA 71111

Report Date: Oct 1, 2021 4:33p

Client:	H.L. BROWN	Date Sampled:	Sep 21, 2021
Client Code:	2701	Analysis Date:	Sep 28, 2021
Site:	FEDERAL 27-2	Collected By:	DB
Field:	130 - BLUITT	Date Effective:	Oct 1, 2021 12:00a
Meter:	27-2	Source Pressure (PSI):	50.0
Source Laboratory:	Bossier City, LA	Source Temp (°F):	55
<b>Lab File No:</b>	<b>517326268</b>	Field H2O (lb/MMSCFD):	
Cylinder No:	2575		
Analysis Status:	good		
Sample Type:	Spot		
Measurement Analyst:	<i>Ashley Free</i>		

Component	Mol %	Liquid Recovery GPM
H2S (H2S)	0.0025	0.0000
Nitrogen (N2)	7.7382	0.0000
CO2 (CO2)	3.0463	0.0000
Methane (C1)	68.6319	0.0000
Ethane (C2)	8.5725	2.3474
Propane (C3)	5.9476	1.6778
I-Butane (IC4)	0.8875	0.2974
N-Butane (NC4)	2.6250	0.8474
I-Pentane (IC5)	0.6519	0.2441
N-Pentane (NC5)	0.8174	0.3034
Hexanes Plus (C6+)	1.0792	0.4822
<b>TOTAL</b>	<b>100.0000</b>	<b>6.1997</b>

Analytical Results at Base Conditions (Real)	
BTU/SCF (Dry):	1,228.1085 BTU/ft <sup>3</sup>
BTU/SCF (Saturated):	1,207.1917 BTU/ft <sup>3</sup>
PSIA:	14.696 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.99603
Z Factor (Saturated):	0.99565

Analytical Results at Contract Conditions (Real)	
BTU/SCF (Dry):	1,255.7142 BTU/ft <sup>3</sup>
BTU/SCF (Saturated):	1,234.8068 BTU/ft <sup>3</sup>
PSIA:	15.025 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.99594
Z Factor (Saturated):	0.99566

Calculated Specific Gravities at Contract Conditions			
Ideal Gravity:	0.8227	Real Gravity:	0.8256
Molecular Wt:	23.8271	lb/lbmol	

Methods, standards, and uncertainties based on GPA 2261-13.  
 Analytical Calculations performed in accordance with GPA 2172-09.

Source	Date	Notes
Bossier City, LA	Sep 28, 2021 12:00 am	OVER RANGED STAIN TUBE

*Devonian Gas*

**From:** [Bailey Aguilar](#)  
**To:** [McClure, Dean, EMNRD](#)  
**Subject:** RE: [EXTERNAL] RE: downhole commingling application DHC-5192  
**Date:** Friday, April 22, 2022 7:16:56 AM

---

Mr. McClure,

Yes, it is MCFD on the graphs. And also yes for the predicted production being allocated from each formation.

Please let me know if you have any further questions.

Thank you,

Bailey

---

**From:** McClure, Dean, EMNRD <[Dean.McClure@state.nm.us](mailto:Dean.McClure@state.nm.us)>  
**Sent:** Thursday, April 21, 2022 3:31 PM  
**To:** Bailey Aguilar <[baguilar@hlboperating.com](mailto:baguilar@hlboperating.com)>  
**Subject:** RE: [EXTERNAL] RE: downhole commingling application DHC-5192

Ms. Aguilar,

The historical production has its y-axis labeled as BPD/MCFD like the inverse of GOR. Are these graphs depicting MCFD instead? If so, was the 50% allocation split derived from a predicted production of ~25 MCFD from each formation then?

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

---

**From:** Bailey Aguilar <[baguilar@hlboperating.com](mailto:baguilar@hlboperating.com)>  
**Sent:** Thursday, April 21, 2022 9:56 AM  
**To:** McClure, Dean, EMNRD <[Dean.McClure@state.nm.us](mailto:Dean.McClure@state.nm.us)>  
**Subject:** [EXTERNAL] RE: downhole commingling application DHC-5192

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Mr. McClure,

I have attached all the requested documents.

The data in the graphs was obtained from this well.

As for the inconsistency in production percentage the correct percentage is as follows:

50% Gas to Devonian

50% Gas to Wolfcamp

100% Oil to Devonian

0% Oil to Wolfcamp

Please let me know if you require any further information.

Thank you!

Bailey

---

**From:** McClure, Dean, EMNRD <[Dean.McClure@state.nm.us](mailto:Dean.McClure@state.nm.us)>

**Sent:** Tuesday, April 19, 2022 1:28 PM

**To:** Bailey Aguilar <[baguilar@hlboperating.com](mailto:baguilar@hlboperating.com)>

**Subject:** downhole commingling application DHC-5192

Ms. Aguilar,

I am reviewing downhole commingling application DHC-5192 which involves the commingling of 2 pools within the Federal 27 Com #2 (30-041-20871) and is operated by H L Brown Operating, LLC (213179).

Please provide the following:

- BTU and gravity values for the gas and oil from these two pools; they may be estimated based off neighboring production.
- A statement from a landman or other qualified person confirming that ownership is identical between these two pools for this well.
- A C-102 for each pool.
- An analysis report of a water sample from each of the pools which may be obtained from neighboring wells. This analysis should include the dissolved solids.
- A statement from an engineer or other qualified person regarding the compatibility between the fluids and between the fluids and formations which may include a scalability test and consideration for damage to any of the formations due to swelling of clays, precipitation, and any other potential damaging factors.
- An analysis report of a gas sample from each of the pools which may be obtained from neighboring wells. This analysis should include the composition of the gas including quantity of H<sub>2</sub>S, CO<sub>2</sub>, and N<sub>2</sub>.
- A completed admin checklist. A blank one has been attached to this email.
- Confirmation that the BLM has been notified of this application. If sent by certified mail, then the tracking number will be sufficient. If they were informed via sundry, then a print off of that sundry will be sufficient.

Regarding the allocation of production; reference is made to historical production from the well. However, it seems that oil has been reported to have been produced from the Wolfcamp in the past, but the proposed percentage of oil production proposed to be allocated to the Wolfcamp is 0%. Do you feel this is accurate and if so, why? Additionally, the graphs included with historical production depicted seem to be in Oil/Gas units. Are these the correct units? Was this data obtained from this

well or neighboring wells? Additionally, the C-107A and included spreadsheet has an inconsistency in that the proposed percentage of gas production to each pool is different. Which is the correct proposed value?

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

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

**APPLICATION FOR DOWNHOLE COMMINGLING  
SUBMITTED BY H L BROWN OPERATING, LLC**

**ORDER NO. DHC-5192**

**ORDER**

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

**FINDINGS OF FACT**

1. H L Brown Operating, LLC (“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 all produced fluids from all the Pools are compatible with each other.
4. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
5. 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.
6. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools, provided evidence a copy of the Application was given to each person, and those persons either submitted a written waiver or did not file an objection to the Application.
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 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. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools and provided evidence the application was given to those persons in accordance with 19.15.12.11(C)(1)(b) NMAC.
13. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

### **ORDER**

1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
2. Applicant shall allocate a fixed percentage of the oil and gas production from the Well to each of the Pools as described in Exhibit A.
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**



\_\_\_\_\_  
**ADRIENNE E. SANDOVAL  
DIRECTOR**

**DATE:** 4/22/2022

State of New Mexico  
Energy, Minerals and Natural Resources Department

## Exhibit A

Order: **DHC-5192**

Operator: **H L Brown Operating, LLC (213179)**

Well Name: **Federal 27 Com #2**

Well API: **30-041-20871**

**Upper Zone**

Pool Name: **BLUITT; WOLFCAMP (GAS)**

Pool ID: **72640**

Current: **X**

New:

Allocation: **Fixed Percent**

Oil: **0%**

Gas: **50%**

Interval: **Perforations**

Top: **7,945**

Bottom: **8,152**

**Intermediate Zone**

Pool Name:

Pool ID:

Current:

New:

Allocation:

Oil:

Gas:

Interval:

Top:

Bottom:

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

**Lower Zone**

Pool Name: **BLUITT; SILURO DEVONIAN, NORTH**

Pool ID: **6910**

Current:

New: **X**

Allocation: **Fixed Percent**

Oil: **100%**

Gas: **50%**

Interval: **Perforations**

Top: **8,662**

Bottom: **8,933**

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

**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

Action 85501

**CONDITIONS**

Operator: H L BROWN OPERATING, LLC P.O. Box 2237 Midland, TX 79702	OGRID: 213179
	Action Number: 85501
	Action Type: [C-107] Down Hole Commingle (C-107A)

**CONDITIONS**

Created By	Condition	Condition Date
dmcclure	Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.	4/25/2022