

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 S. St Francis Drive
Santa Fe, New Mexico 87505

Submit the original
application to the Santa Fe
office with one copy to the
appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME: Centennial Resource Production, LLC
OPERATOR ADDRESS: 1001 17th Street, Suite 1800, Denver, CO 80202
APPLICATION TYPE:

☐ Pool Commingling ☐ Lease Commingling ☒ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE: ☐ Fee ☒ State ☒ Federal

Is this an Amendment to existing Order? ☒ Yes ☐ No If "Yes", please include the appropriate Order No. PLC-810
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling
☒ Yes ☐ No

(A) POOL COMMINGLING
Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes
Red Hills; Bone Spring 96434					
Antelope Ridge; Wolfcamp 2220					

- (2) Are any wells producing at top allowables? ☐ Yes ☒ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No.
(4) Measurement type: ☒ Metering ☐ Other (Specify)
(5) Will commingling decrease the value of production? ☐ Yes ☒ No If "yes", describe why commingling should be approved

(B) LEASE COMMINGLING
Please attach sheets with the following information

- (1) Pool Name and Code.
(2) Is all production from same source of supply? ☐ Yes ☐ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☐ Yes ☐ No
(4) Measurement type: ☐ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING
Please attach sheets with the following information

- (1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT
Please attached sheets with the following information

- (1) Is all production from same source of supply? ☐ Yes ☐ No
(2) Include proof of notice to all interest owners.

(E) ADDITIONAL INFORMATION (for all application types)
Please attach sheets with the following information

- (1) A schematic diagram of facility, including legal location.
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.
(3) Lease Names, Lease and Well Numbers, and API Numbers.

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

SIGNATURE: Katie Biersmith TITLE: Regulatory Lead DATE: 3/24/23

TYPE OR PRINT NAME Katie Biersmith TELEPHONE NO.: 720-499-1522

E-MAIL ADDRESS: katie.biersmith@permianres.com

Revised March 23, 2017

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: <u>Centennial Resource Production, LLC</u>	OGRID Number: <u>372165</u>
Well Name: <u>Raider Fed Com 502H, 701H and 302H</u>	API: <u>30-025-46300, 30-025-46427, 30-025-48391</u>
Pool: <u>Red Hills; Bone Spring, North & Antelope Ridge; Wolfcamp</u>	Pool Code: <u>96434, 2220</u>

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

- ☐ Notice Complete
☐ 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.

Sarah Ferreyros

Print or Type Name

Signature

3/30/23

Date

720-499-1454

Phone Number

sarah.ferreyros@permianres.com

e-mail Address



**APPLICATION FOR
COMMINGLING AND OFF-LEASE STORAGE
ON STATE TRUST LANDS**



This application form is required for all commingling applications requiring approval by the Commissioner of Public Lands.

Applicant: Centennial Resource Production, LLC

OGRID #: 372165

Well Name: Raider Fed Com 502H, 701H, 302H (AMENDMENT)

API #: 30-025-46300, 30-025-46427,

Pool: Red Hills; Bone Spring, North & Antelope Ridge; Wolfcamp

30-025-48391

OPERATOR NAME: Centennial Resource Production, LLC

OPERATOR ADDRESS: 1001 17th Street, Suite 1800, Denver, CO 80202

APPLICATION REQUIREMENTS – SUBMIT:

1. New Mexico Oil Conservation Division (NMOCD) application packet (or equivalent information if no application is required by NMOCD),
2. Commingling application fee of \$150.

CERTIFICATION: To the best of my knowledge,

- All business leases and rights-of-way necessary for conducting the proposed operation on State Trust lands have been applied for or obtained,
- The information submitted with this application is **accurate** and **complete**, and
- No loss will accrue to the state of New Mexico as a result of the proposed operation.

I also understand that **no action** will be taken on this application until the required information and fee are submitted to the State Land Office.

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

Sarah Ferreyros
Print or Type Name


Signature

3/30/23
Date

720-499-1454
Phone Number

sarah.ferreyros@permianres.com
e-mail Address

Submit application to:
Commissioner of Public Lands
Attn: Commingling Manager
PO Box 1148
Santa Fe, NM 87504-1148

Questions?
Contact the Commingling Manager:
505.827.5791

Upon approval, the requesting organization will receive an acknowledgment letter from the Commissioner of Public Lands.

APPLICATION FOR SURFACE POOL/LEASE COMMINGLING

Centennial Resource Production, LLC ("CRP") respectfully requests approval to surface pool/lease commingle oil & gas from the following wells:

	API	WELL NAME	WELL #	LOCATION	POOL CODE/NAME	STATUS
1	30-025-46300	Raider Federal Com	502H	T24S-R34E Sec 21	[96464] Red Hills; Bone Spring, North	PRODUCING
2	30-025-46427	Raider Federal Com	701H	T24S-R34E Sec 21	[2220] Antelope Ridge; Wolfcamp	PRODUCING
3	30-025-48391	Raider Federal Com	302H	T24S-R34E Sec 21	[96464] Red Hills; Bone Spring, North	PRODUCING
4	FUTURE WELL	Raider Federal Com	102H	T24S-R34E Sec 21	[96464] Red Hills; Bone Spring, North	FUTURE WELL
5	FUTURE WELL	Raider Federal Com	103H	T24S-R34E Sec 21	[96464] Red Hills; Bone Spring, North	FUTURE WELL

GENERAL INFORMATION:**Spacing Unit for Raider Fed Com #502H - Pool: Red Hills; Bone Spring, North (96434) [API: 30-025-46300]**

W/2 E/2 Section 16, T24S R34E

W/2 E/2 Section 21, T24S R34E

Total of 320.00 acres, all in Lea County, NM

	Lease Type	Lease Number	Type of Production	Royalty	Description	% of Comm	Acres in Comm
1	State	VB-11793	Oil and Gas	20%	320 acres being E/2 Section 16, T24S R34E, Lea County, NM	50.00%	160.00
2	Federal	NM-126971	Oil and Gas	12.5%	240 acres, being NE4, W2SE Section 21 T24S R34E, Lea County, NM	50.00%	160.00
		Total				100.00%	320.00

*The Communitization Agreement for the Raider Fed Com #502H has been submitted to the BLM for approval.

Spacing Unit for Raider Fed Com #701H - Pool: Antelope Ridge Wolfcamp (2220) [API: 30-025-42700]

W/2 E/2 Section 16, T24S R34E

W/2 E/2 Section 21, T24S R34E

Total of 320.00 acres, all in Lea County, NM

	Lease Type	Lease Number	Type of Production	Royalty	Description	% of Comm	Acres in Comm
1	State	VB-11793	Oil and Gas	20%	320 acres being E/2 Section 16, T24S R34E, Lea County, NM	50.00%	160.00
2	Federal	NM-126971	Oil and Gas	12.5%	240 acres, being NE4, W2SE Section 21 T24S R34E, Lea County, NM	50.00%	160.00
3		Total				100.00%	320.00

*The Communitization Agreement for the Raider Fed Com #701H has been submitted to the BLM for approval.

Spacing Unit for Raider Fed Com #302H - Pool: Red Hills; Bone Spring, North [96434] [API: 30-025-48391]

E/2 E/2 Section 21, T24S R34E

Total of 160.00 acres, all in Lea County, NM

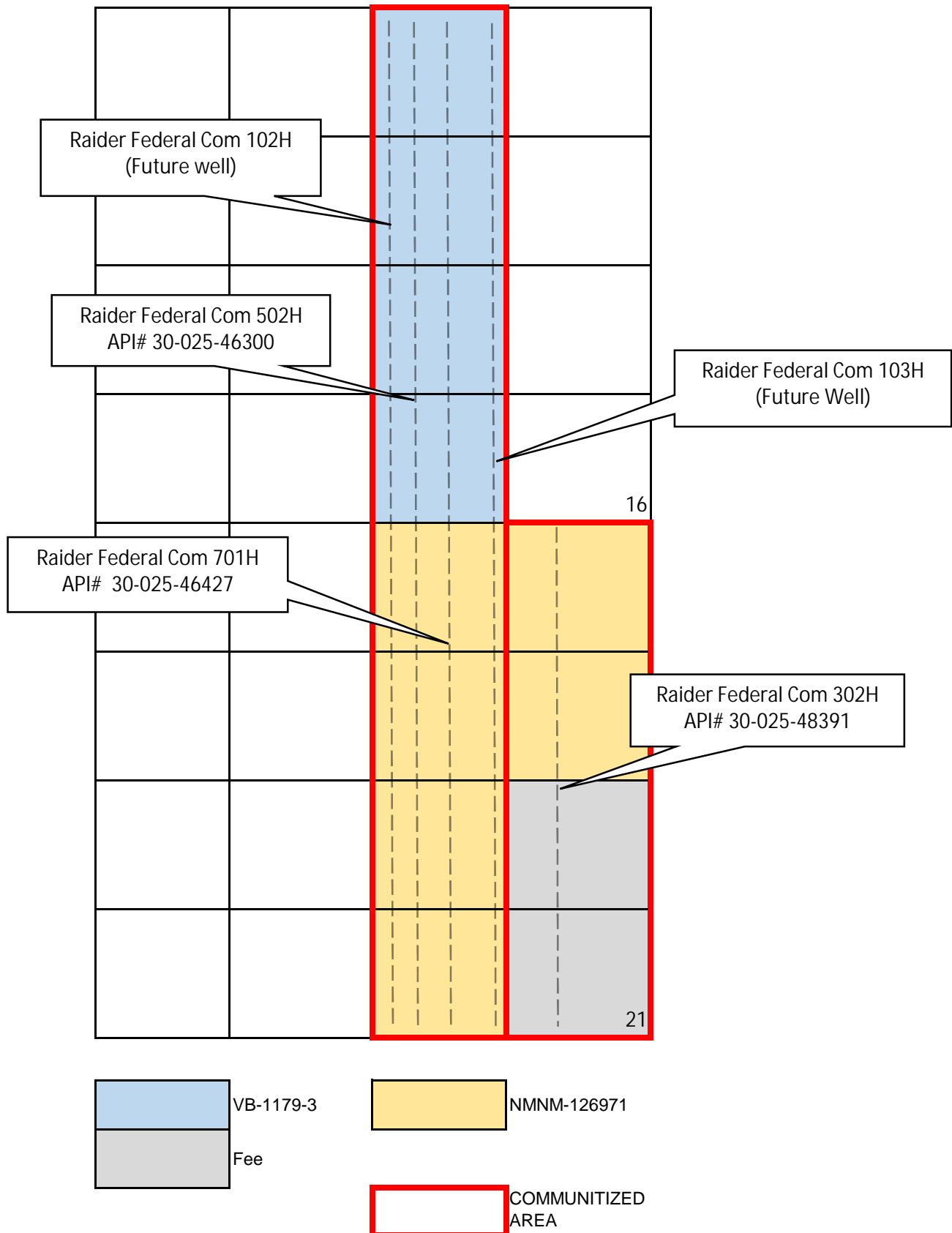
	Lease Type	Lease Number	Type of Production	Royalty	Description	% of Comm	Acres in Comm
1	Federal	NM-126971	Oil and Gas	12.5%	240 acres, being NE4, W2SE Section 21 T24S R34E, Lea County, NM	50.00%	80.00
2	Fee	Fee	Oil and Gas	Various	40 acres, being NE4SE4 Section 21 T24S R34E, Lea County, NM	25.00%	40.00
3	Fee	Fee	Oil and Gas	Various	40 acres, being SE4SE4 Section 21 T24S R34E, Lea County, NM	25.00%	40.00
		Total				100.00%	160.00

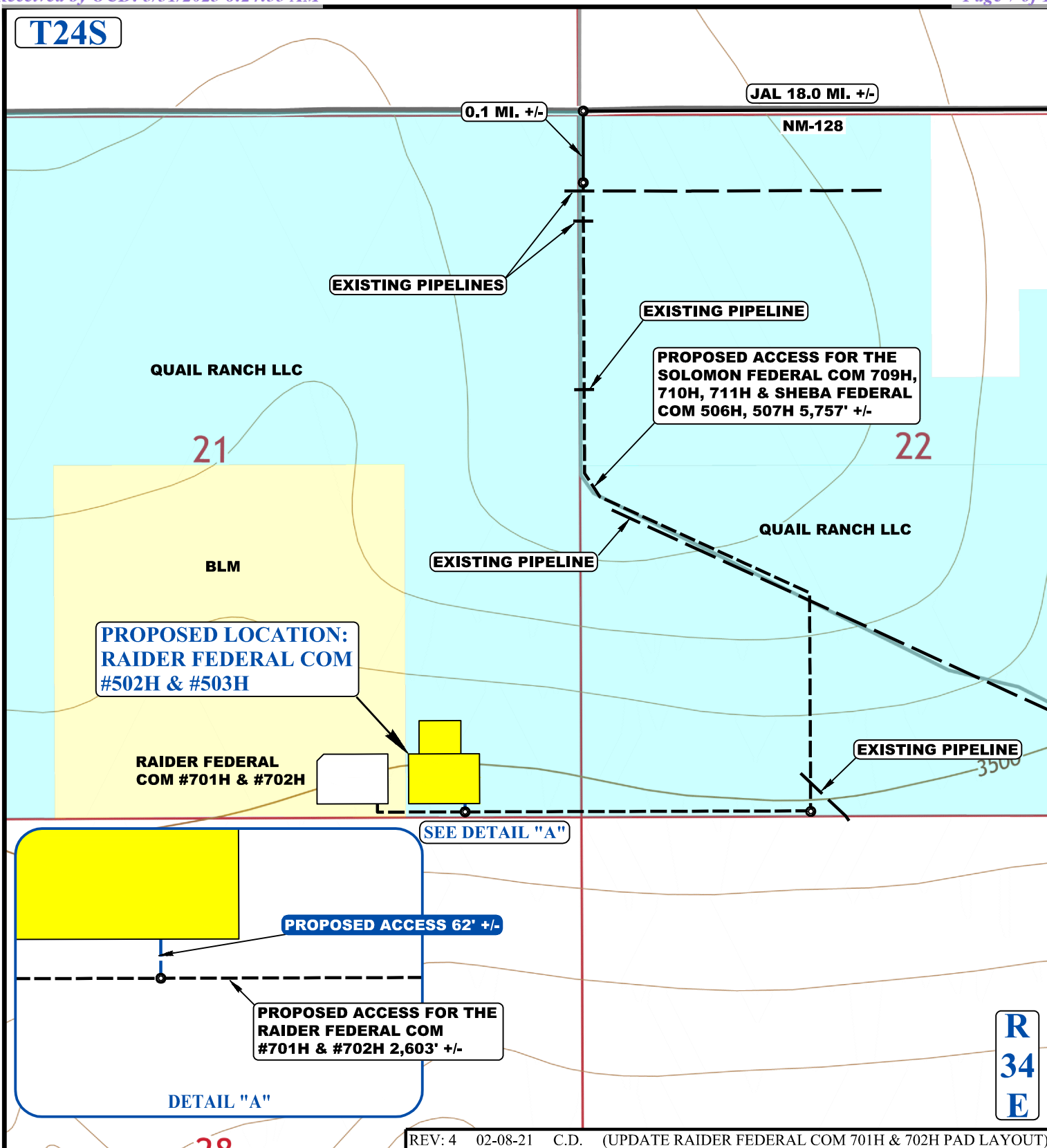
*The Communitization Agreement for the Raider Fed Com #302H has been submitted to the BLM for approval.

- This application will fall under 43 CFR 3173.14(a)(1) iii (Federal unit PA or CA where each unit PA or CA proposed for commingling has the same proportion of Federal interest, and which interest is subject to the same fixed royalty rate and revenue distribution.)
- The central tank battery to service the subject wells is located off-lease, on Lot P of Section 21-24S-34E on fee surface. Storing and measuring from this off-lease facility reduces the amount of trucking or pipelines since it is on the 502H drill pad. So, although it is off lease, it reduces our environmental impact by producing on the drill pad.
- There is no new surface disturbance included as part of the proposed CAA.
- All leases, unit PAs, or CAs in the proposed CAA are capable of production in paying quantities.
- All non-FMP gas meters will meet API Standard 14.3/AGA Report No 3 and all non-FMP oil meters will meet API/MPMS Chapter 5.6
- Federal ownership in the overlapping spacing units is identical.
- Enclosed herewith is 1) a map that displays the leases and the location of the subject wells, 2) a map that displays the location of the proposed CTB, (3) a process flow diagram, (4) allocation methodology and example, (5) the C-102 plat for each of the wells and (6) the serial register page for NMNM-126971.
- The approval of this commingling application will not negatively affect the royalty revenue of the federal government due to the allocation methodology described in the application. The interest owned by the federal government in each of these wells is identical.
- Gas analysis is not required for this application as Centennial is applying for a CAA under 3173.14(a)(1).
- Centennial requests approval to add additional wells within the spacing units identified and approved in this application by filing a Subsequent Report Sundry to the Bureau of Land Management and filing a C103Z and C102 with the NMOCD. Notice to owners shall not be required when amending the application to add wells contained within spacing units previously approved for commingling authority.

Raider Commingling Lease Map

To Commingling Agreement embracing W/2E/2 of Section 16 and the E/2 Section 21 Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico



T24S

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - PROPOSED ROAD (SERVICING OTHER WELLS)
- - - EXISTING PIPELINE

**CENTENNIAL RESOURCE PRODUCTION, LLC**

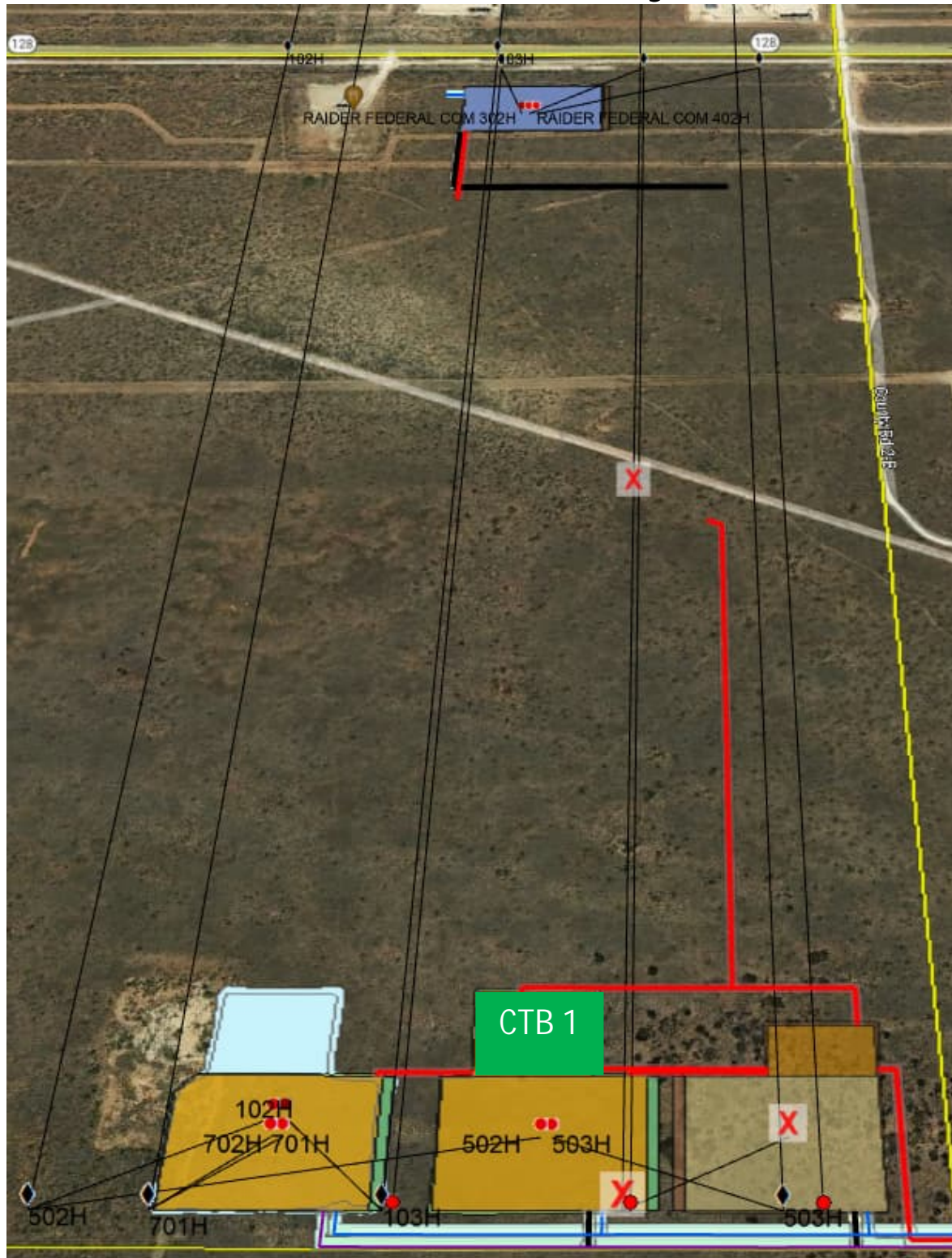
RAIDER FEDERAL COM #502H & #503H
SE 1/4 SE 1/4 SECTION 21, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	07-13-18	SCALE
DRAWN BY	J.A.	07-18-18	1 : 12,000
ACCESS ROAD MAP			TOPO B



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

Raider CTB 1 Pad Layouts



The Raider 502H, 701H and 302H will flow to the facility marked CTB 1



9/23/2022

COMMINGLED CENTRAL TANK BATTERY - PRORATED ALLOCATION

DAILY GAS ALLOCATION

Each well has a gas production meter (wellhead meter) on a dedicated test vessel that is used as an allocation meter.

There is a single VRU meter installed at the facility that measures tank vapors evolved from oil in the atmospheric tanks and heater treater. Gas metered by the VRU meter is allocated to each well based off the Oil Allocation meters mentioned in the Oil Allocation section below.

There is a high-pressure flare gas meter at the facility that measures gas sent to the emergency flare. Metered high-pressure flare gas is allocated to each well based off the gas production meters detailed below.

There is a medium-pressure flare gas meter at the facility that measures gas sent to flare. Metered medium-pressure gas is allocated to each well based off the oil production meters detailed below.

There is a low-pressure flare gas meter at the facility that measures gas sent to flare from tanks if the VRU shuts down. Metered low-pressure flare gas is allocated to each well based off the oil production meters detailed below.

Finally, there is a single CTB Facility Check Meter (FMP) before the gas enters the gas gathering pipeline leaving the pad.

1. The Well's Net Gas Production is the volume of gas produced by the well less any volume used for gas lift. The Well's Net Gas Production also includes the Well's VRU Allocation Volume. It is calculated by:
 - a. $\text{Well's Net Gas Production} = \text{Well's Wellhead Meter Readings} - \text{Well's Gas Lift Meter Readings} + \text{Well's VRU Allocation Volume}$
 - b. $\text{Well's VRU Allocation Volume} = \text{VRU Meter} * \text{Well's Theoretical \% of Oil Production}$
 - c. $\text{Well's Theoretical \% of Oil Production} = \text{Well's Oil Meter} / (\text{sum of all Well's Oil Meters at the CTB})$
2. HP Flare Volume is the volume of gas flared from the CTB, allocated to wells by:
 - a. $\text{Well's HP Flare Volume} = \text{HP Flare Meter} * \text{Well's Theoretical Net Gas Production \%}$
 - b. $\text{Well's Theoretical Net Gas Production \%} = \text{Well's Net Gas Production} / (\text{sum of all Well's Net Gas Production})$
3. MP Flare Volume is the volume of gas flared from Heater Treaters at the CTB, allocated to wells by:
 - a. $\text{Well's MP Flare Volume} = \text{MP Flare Meter} * \text{Well's Theoretical \% of Oil Production}$
 - b. $\text{Well's Theoretical \% of Oil Production} = \text{Well's Oil Meter} / (\text{sum of all Well's Oil Meters at CTB})$
4. LP Flare Volume is the volume of gas flared from Tank Vapors, allocated to wells by:
 - a. $\text{Well's LP Flare Volume} = \text{LP Flare Meter} * \text{Well's Theoretical \% of Oil Production}$
 - b. $\text{Well's Theoretical \% of Oil Production} = \text{Well's Oil Meter} / (\text{sum of all Well's Oil Meters at CTB})$

5. The VRU Meter measures the gas that evolves from the oil in the oil tanks and the heater treater. The VRU gas volumes are allocated based on allocated oil production for each well. The VRU Meter is an allocation meter.
 - a. Well's VRU Allocation Volume = VRU Meter * Well's Theoretical % of Oil Production
 - b. Well's Theoretical % of Oil Production = Well's Oil Meter / (Sum of all Well's Oil Meters at CTB)
6. Allocated Lease Use Gas Volume is the volume of gas used by the equipment on the CTB allocated to the wells by:
 - a. Well's Allocated Lease Use Gas Volume = Lease Use Equipment* (Well's Hours On / (sum of all Well's Hours On))
7. Well's Theoretical Net Gas Production % used for the allocation of production/sales is calculated by:
 - a. Well's Theoretical Net Gas Production % = Well's Net Gas Production / (sum of all Well's Net Gas Production)
8. CTBs FC Meter (FMP) measures the volume of gas for royalty purposes. This volume of gas is the total that is sold from the CTB. The CTBs FC Meter (FMP) volumes are allocated to each well by:
 - a. Well's CTB FC Meter (FMP) Allocation = CTBs FC Meter (FMP) * Well's Theoretical Net Gas Production %
 - b. Well's Theoretical Net Gas Production % = Well's Net Gas Production / (sum of all Well's Net Gas Production)
9. Each Well's Allocated Gas Production at the CTB is calculated by:
 - a. Well's Allocated Gas Production = Well's CTBs FC Meter (FMP) Allocation + Well's HP Flare Volume + Well's MP Flare Volume + Well's LP Flare Volume + Well's Allocated Lease Use Gas Volume

DAILY OIL ALLOCATION

Each well has an oil meter measuring the volume of oil produced by the well. This volume is used as the allocation point to prorate Well's Allocated Oil Production Volume and Well's Allocated Oil Sales Volume (FMP) back to each well.

1. Well's Allocated Oil Production Volume is the volume of oil produced by each well and is calculated by:
 - a. Well's Allocated Oil Production Volume = Well's Theoretical % of Oil Production * CTB Allocated Oil Production
 - b. Well's Theoretical % of Oil Production = Well's Oil Meter / (sum of all Well's Oil Meters at the CTB)
 - c. CTB Allocated Oil Production = Total CTB Sales Volume (FPM) + Ending Tank Inventory – Beginning Tank Inventory
2. CTB Available Oil for Sale is calculated by:
 - a. CTB Available Oil for Sale = CTB Allocated Oil Production + Beginning Tank Inventory
3. Each Well's Available Oil for Sale is calculated by:
 - a. Each Well's Available Oil for Sale = Well's Allocated Oil Production Volume + Well's Beginning Tank Inventory

4. Well's Theoretical % of Oil Available for Sale is calculated by:
 - a. $\text{Well's Theoretical \% of Oil Available for Sale} = \text{Well's Available Oil for Sale} / (\text{sum of all Well's Available Oil for Sale})$
5. Well's Allocated Sales Volume (FMP) is the total oil volume allocated to each well and is calculated by:
 - a. $\text{Well's Allocated Sale Volume (FMP)} = \text{Total CTB Sales Volume (FMP)} * \text{Well's Theoretical \% of Oil Available for Sale}$
6. Total CTB Sales Volume (FMP) is the volume of oil sold through the LACT Unit (FMP meter)
7. Beginning Tank Inventory comes from previous accounting period's Ending Tank Inventory for each well
8. Ending Oil Tank Inventory for each well is calculated by:
 - a. $\text{Well's Ending Tank Inventory} = \text{Well's Beginning Oil Tank Inventory} + \text{Well's Allocated Oil Production Volume} - \text{Well's Allocated Sales Volume}$

DAILY WATER ALLOCATION

Each well has a water meter measuring the volume of water produced by the well. This volume is used as the allocation point to prorate Well's Allocated Water Production and Well's Allocated Water Transfer Volume back to each well.

1. Well's Allocated Water Production is volume of water allocated to each well at the CTB and is calculated by:
 - a. $\text{Well's Allocated Water Production} = \text{CTB Allocated Water Production} * \text{Well's Theoretical \% of Water Production}$
 - b. $\text{CTB Allocated Water Production} = \text{Total of CTBs Water Transfer Meters} + \text{Ending Tank Inventory} - \text{Beginning Tank Inventory}$
 - c. $\text{Well's Theoretical \% of Water Production} = \text{Well's Water Meter} / (\text{sum of Well's Water Meters at CTB})$
2. CTBs Available Water to Transfer is calculated by:
 - a. $\text{CTBs available Water to Transfer} = \text{CTBs Allocated Well Production} + \text{Beginning Tank Inventory}$
3. Each Well's Available Water to Transfer is calculated by:
 - a. $\text{Well's Available Water to Transfer} = \text{Well's Allocated Well Production} + \text{Well's Beginning Tank Inventory}$
4. Each Well's Theoretical % of Water Available to Transfer is calculated by:
 - a. $\text{Well's Theoretical \% of Water Available to Transfer} = \text{Well's Available Water to Transfer} / (\text{sum of Well's Available Water to Transfer})$
5. Each Well's Allocated Water Transfer Volume is total water transfer volume allocated to each well and is calculated by:
 - a. $\text{Well's Allocated Water Transfer Volume} = \text{Well's Theoretical \% of Water Available to Transfer} * \text{Total of CTBs Water Transfer Meters}$

6. Total of CTBs Water Transfer Meters is the volume of water transferred and metered by the individual Water Transfer Meters at the CTB.
7. Beginning Tank Inventory comes from previous accounting period's allocated Ending Inventory for each well.
8. Ending Water Tank Inventory for each well is calculated by:
 - a. $\text{Well's Ending Tank Inventory} = \text{Well's Beginning Water Tank Inventory} + \text{Well's Allocated Water Production} - \text{Well's Allocated Water Transfer Volume}$

Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	Wellhead Meter Readings (MSCF)	Well's Gas Lift Meter Readings (MSCF)	Well's Net Gas Production (MSCF)	Well's Hours On	Well's Theoretical Net Gas Production %	Well's CTB FC Meter (FMP) Allocation (MSCF)	Well's HP Flare Volume (MSCF)	Well's MP Flare Volume (MSCF)	Well's LP Flare Volume (MSCF)	Well's Allocated Lease Use Gas Volume (MSCF)	Well's VRU Allocation Volume (MSCF)	Well's Allocated Gas Production (MSCF)
Raider Federal Com 502H	942.00	486.00	465.05	24.00	0.17	742.01	23.93	1.51	3.39	4.00	9.05	774.84
Raider Federal Com 701H	901.00	474.00	436.47	24.00	0.16	696.42	22.46	1.58	3.55	4.00	9.47	728.00
Raider Federal Com 302H	1,023.00	491.00	568.81	24.00	0.21	907.58	29.27	6.14	13.81	4.00	36.81	960.79
Raider Federal Com 102H (future)	1,113.00	502.00	640.13	24.00	0.24	1,021.37	32.94	4.86	10.93	4.00	29.13	1,074.09
Raider Federal Com 103H (future)	1,013.00	501.00	547.53	24.00	0.21	873.62	28.17	5.92	13.33	4.00	35.53	925.04
Facility Totals	4,992.00	2,454.00	2,658.00	120.00	1.00	4,241.00	136.76	20.00	45.00	20.00	120.00	4,462.76

CTB Meter Name	Meter Readings
CTBs FC Meter (FMP) (MSCF)	4,241.00
HP Flare Meter (MSCF)	136.76
MP Flare Meter (MSCF)	20.00
LP Flare Meter (MSCF)	45.00
VRU Meter (MSCF)	120.00
Lease Use Equipment (MSCF)	20.00
GL Compressor (MSCF)	2,454.00
Allocated Production (MSCF)	4,462.76

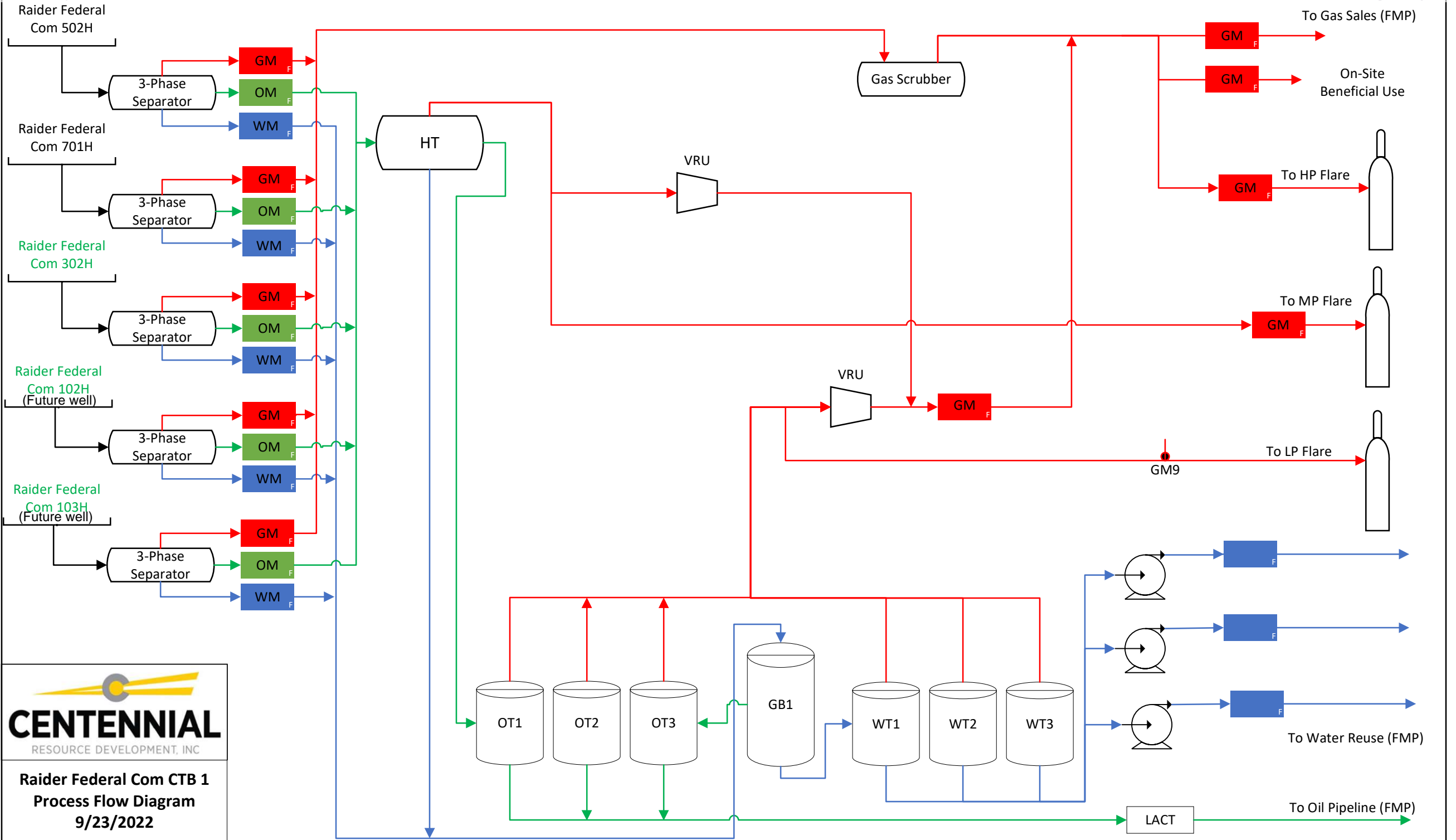
Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	Well's Oil Meter (BBL)	Well's Theoretical % of Oil Production	Well's Allocated Oil Production Volume (BBL)	Well's Available Oil for Sale (BBL)	Well's Theoretical % of Oil Available for Sale	Well's Allocated Sales Volume (FMP) (BBL)	Well's Beginning Tank Inventory (BBL)	Well's Ending Tank Inventory (BBL)
Raider Federal Com 502H	671.29	0.08	669.53	970.18	0.10	783.42	300.65	186.75
Raider Federal Com 701H	702.89	0.08	701.04	933.04	0.09	753.44	232.00	179.61
Raider Federal Com 302H	2,732.00	0.31	2,724.82	2,956.82	0.29	2,387.65	232.00	569.17
Raider Federal Com 102H (future)	2,162.00	0.24	2,156.32	2,388.32	0.24	1,928.58	232.00	459.74
Raider Federal Com 103H (future)	2,637.00	0.30	2,630.07	2,798.63	0.28	2,259.91	168.56	538.72
Facility Totals	8,905.18	1.00	8,881.79	10,047.00	1.00	8,113.00	1,165.21	1,934.00
CTB Allocated Oil Production (BBL)	8,881.79							
CTB Available Oil for Sale (BBL)	10,047.00							
Total CTB Sales Volume (FMP) (BBL)	8,113.00							
CTB's Beginning Oil Tank Inventory (BBL)	1,165.21							
CTB's Ending Tank Inventory (BBL)	1,934.00							

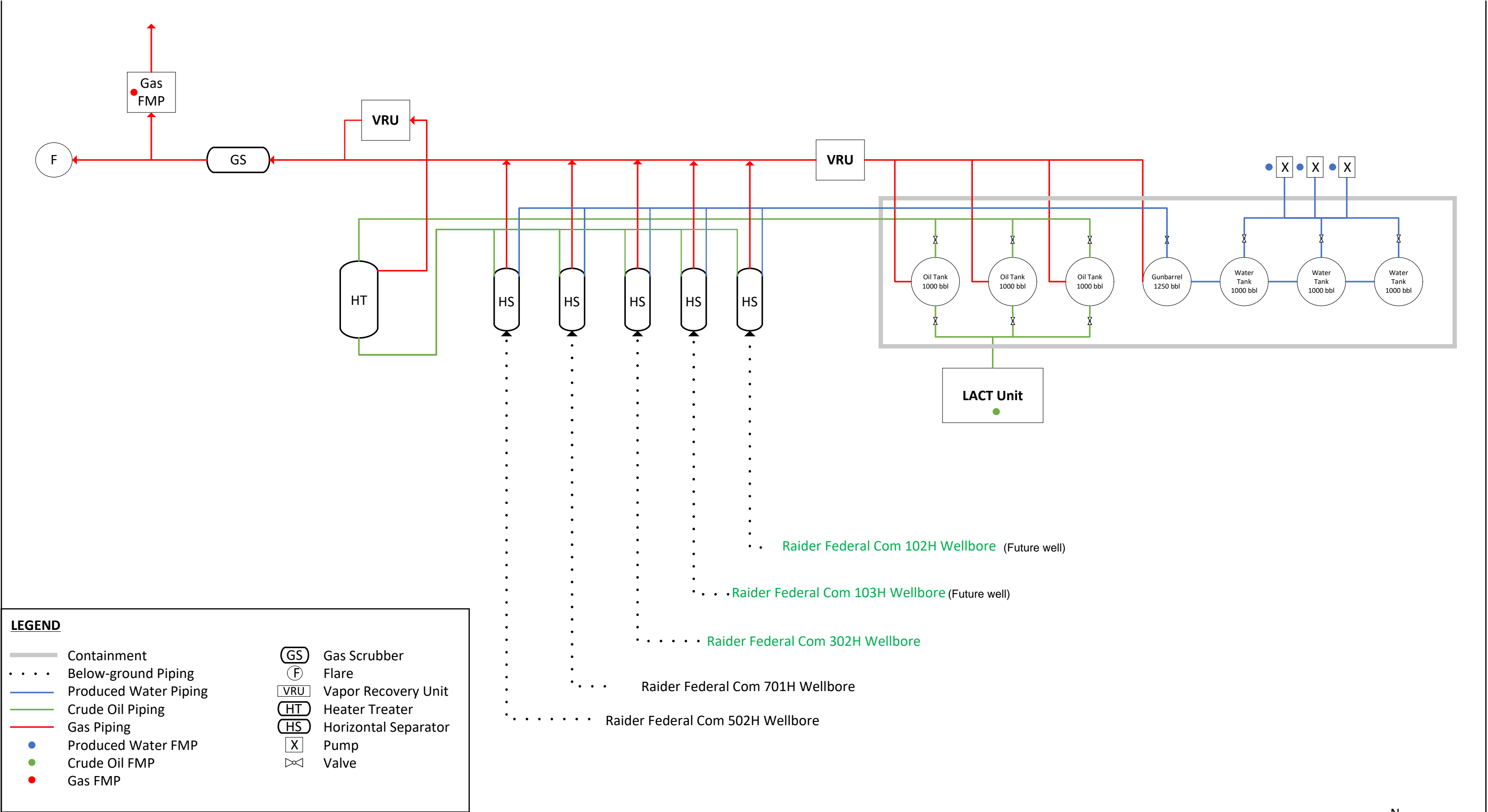
<--Pipeline LACT

Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	Well's Water Meter (BBL)	Well's Theoretical % of Water Production	Well's Allocated Water Production (BBL)	Well's Available Water to Transfer (BBL)	Well's Theoretical % of Water Available to Transfer	Well's Allocated Water Transfer Volume (BBL)	Well's Beginning Tank Inventory (BBL)	Well's Ending Tank Inventory (BBL)
Raider Federal Com 502H	643.00	0.0707	841.08	926.04	0.0747	618.01	84.96	308.03
Raider Federal Com 701H	747.00	0.0821	977.12	1,074.68	0.0867	717.21	97.56	357.48
Raider Federal Com 302H	2,374.00	0.2611	3,105.34	3,211.00	0.2591	2,142.91	105.66	1,068.09
Raider Federal Com 102H (future)	2,817.00	0.3098	3,684.81	3,790.47	0.3058	2,529.63	105.66	1,260.84
Raider Federal Com 103H (future)	2,513.00	0.2763	3,287.16	3,392.82	0.2737	2,264.25	105.66	1,128.57
Facility Totals:	9,094.00	1.0000	11,895.50	12,395.00	1.0000	8,272.00	499.50	4,123.00
CTBs Allocated Water Production (BBL)	11,895.50							
CTBs Available Water to Transfer (BBL)	12,395.00							
Total of CTBs Water Transfer Meters (BBL)	8,272.00							
CTB's Beginning Water Tank Inventory (BBL)	499.50							
CTB's Ending Water Tank Inventory (BBL)	4,123.00							

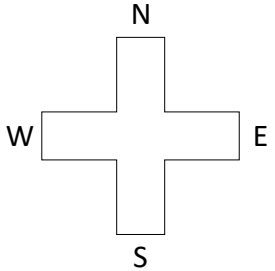


Raider Federal Com CTB 1
Process Flow Diagram
9/23/2022



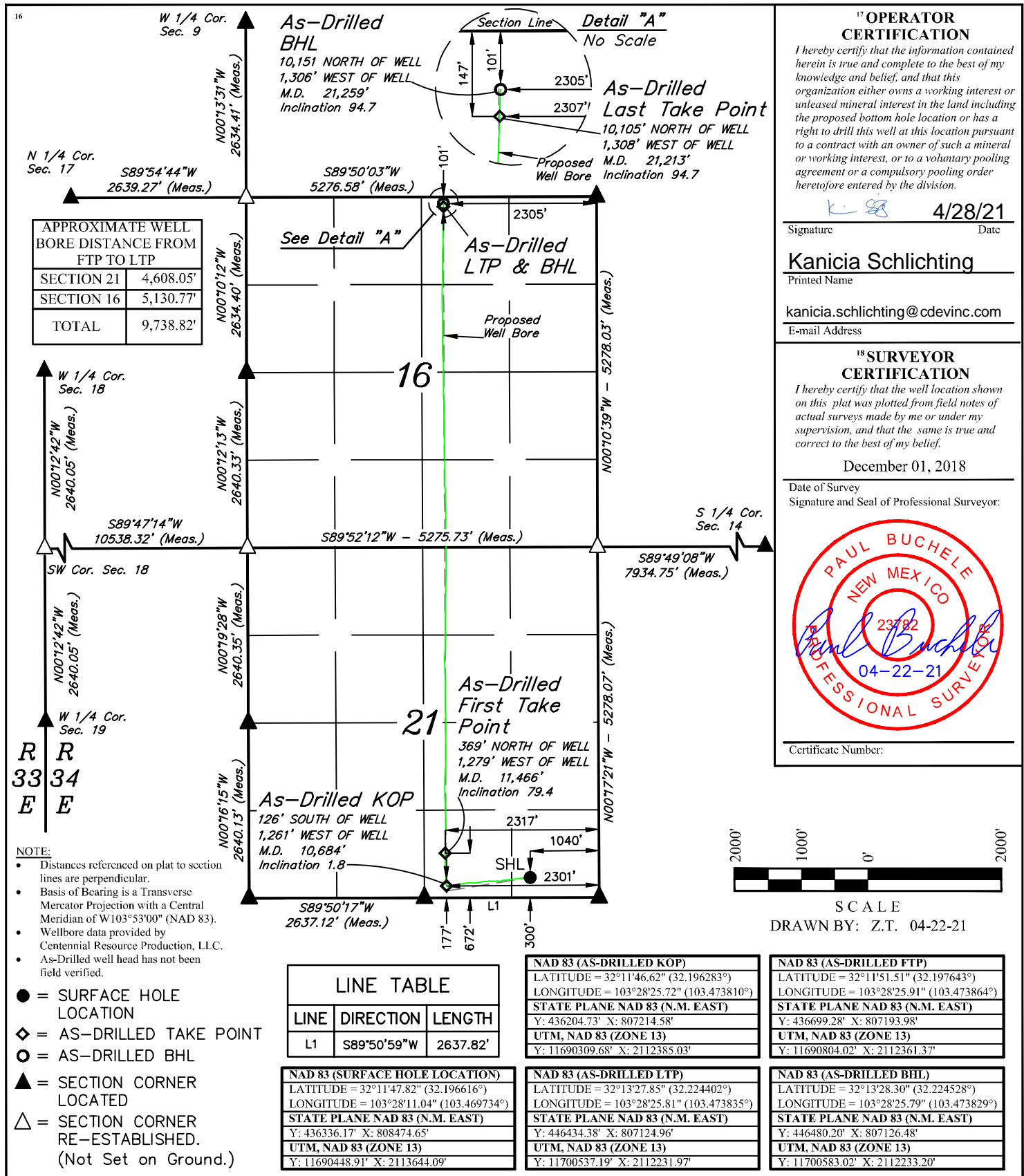
SITE FACILITY DIAGRAM
CENTENNIAL RESOURCE PRODUCTION, LLC
Raider Federal Com CTB 1

Section 21, T 24S, R34E
Lea County, NM

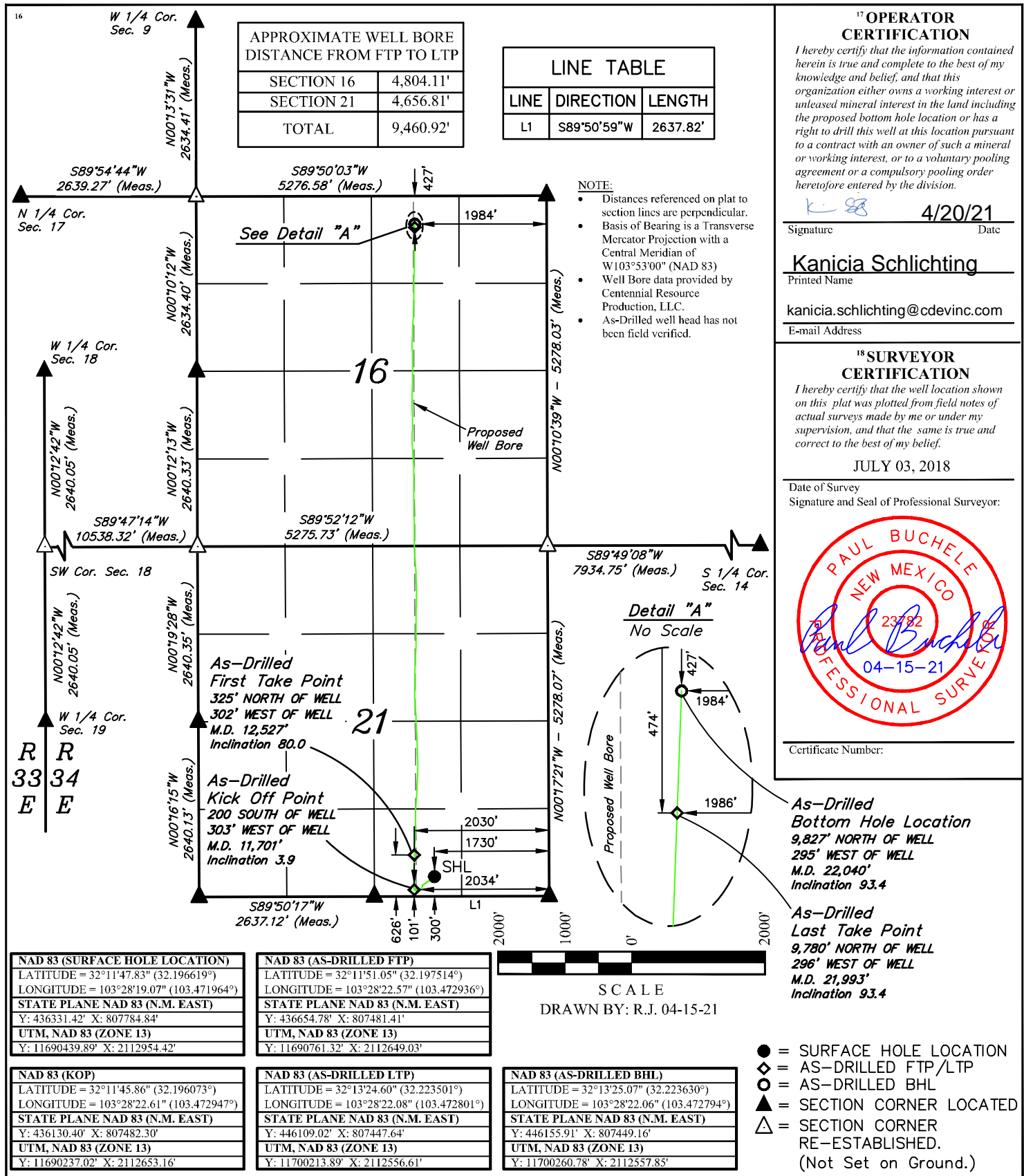


Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT



☐ AMENDED REPORT



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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48391	² Pool Code 96434	³ Pool Name Red Hills; Bone Spring, North
⁴ Property Code 318010	⁵ Property Name RAIDER FEDERAL COM	⁶ Well Number 302H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3530.8'

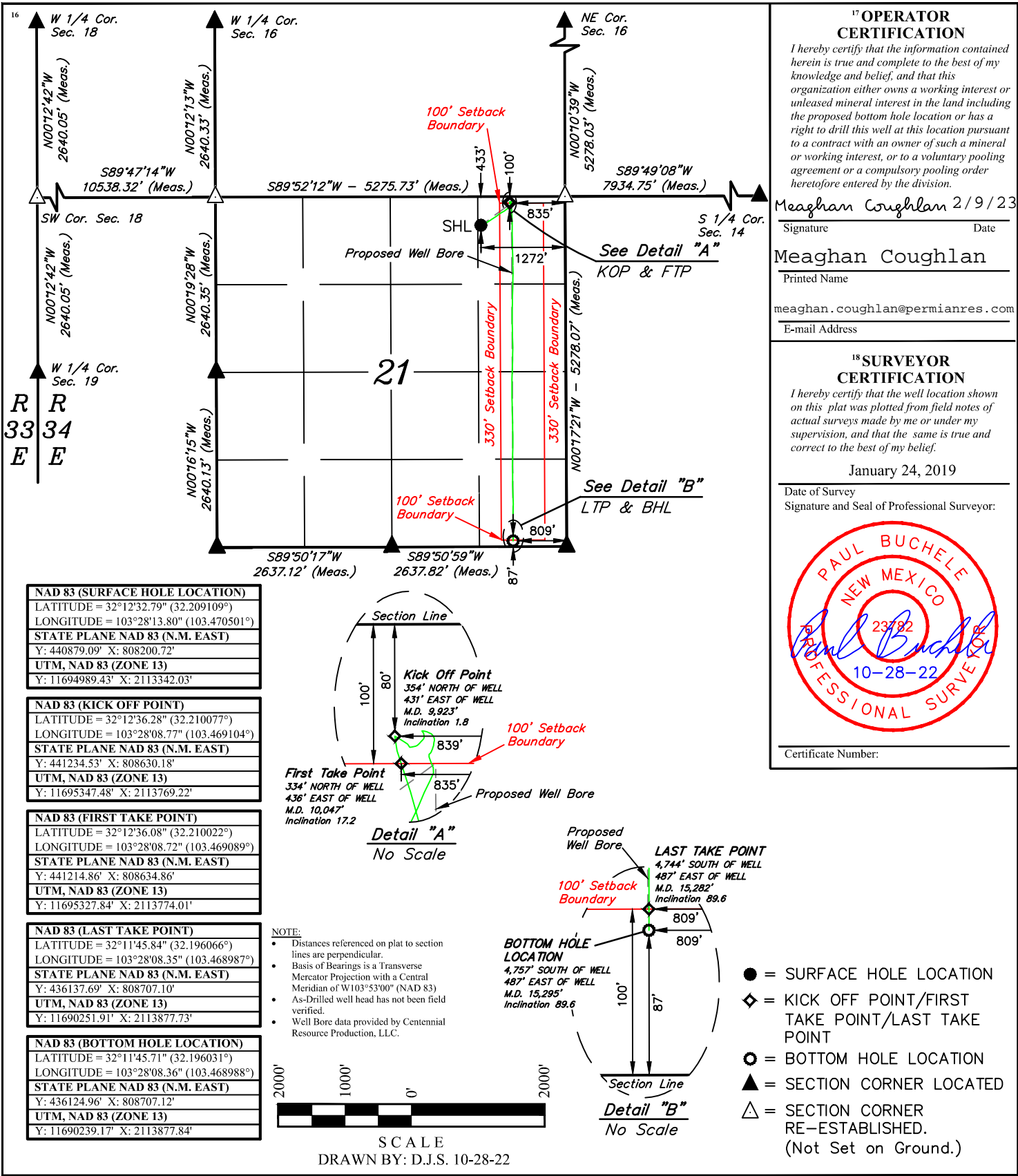
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	24S	34E		433	NORTH	1272	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	24S	34E		87	SOUTH	809	EAST	LEA
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation 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.



POOL COMMINGLING

Well Name	Pool Name and Code	Gravities/BTU of Non-Commingled Production	Calculated Gravities/BTU of Commingled Production	Calculated Value of Commingled Production	Volumes
RAIDER FEDERAL COM 502H	[96434] Red Hills; Bone Spring, North	42°	42° / 987 BTU/CF	Monthly value of \$17,361M @ \$80/\$7	280 bopd
		987 BTU/CF			465 mcf
RAIDER FEDERAL COM 701H	[2220] Antelope Ridge; Wolfcamp	42°			260 bopd
		987 BTU/CF			500 mcf
RAIDER FEDERAL COM 302H	[96434] Red Hills; Bone Spring, North	42°			1800 bopd
		987 BTU/CF			2160 mcf
RAIDER FEDERAL COM 102H	[96434] Red Hills; Bone Spring, North	42°			2000 bopd
		987 BTU/CF			3000 mcf
RAIDER FEDERAL COM 103H	[96434] Red Hills; Bone Spring, North	42°			2000 bopd
		987 BTU/CF			3000 mcf

Production Summary Report API: 30-025-46300 RAIDER FEDERAL COM #502H Printed On: Friday, March 24 2023						
		Production				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
2021	[96434] RED HILLS;BONE SPRING, NORTH	Apr	625	734	3815	1
2021	[96434] RED HILLS;BONE SPRING, NORTH	May	33005	43700	92605	31
2021	[96434] RED HILLS;BONE SPRING, NORTH	Jun	23656	30336	52733	30
2021	[96434] RED HILLS;BONE SPRING, NORTH	Jul	21415	28936	45854	27
2021	[96434] RED HILLS;BONE SPRING, NORTH	Aug	20737	29004	39423	31
2021	[96434] RED HILLS;BONE SPRING, NORTH	Sep	17389	29813	42586	30
2021	[96434] RED HILLS;BONE SPRING, NORTH	Oct	16183	27528	27276	31
2021	[96434] RED HILLS;BONE SPRING, NORTH	Nov	14347	21908	25618	30
2021	[96434] RED HILLS;BONE SPRING, NORTH	Dec	13263	19668	21618	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Jan	12294	17261	20588	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Feb	9836	13927	16301	28
2022	[96434] RED HILLS;BONE SPRING, NORTH	Mar	11634	17118	17713	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Apr	11308	19565	17025	30
2022	[96434] RED HILLS;BONE SPRING, NORTH	May	10686	19476	16624	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Jun	9879	18571	15271	30
2022	[96434] RED HILLS;BONE SPRING, NORTH	Jul	9279	14621	14503	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Aug	9585	15707	15598	31
2022	[96434] RED HILLS;BONE SPRING, NORTH	Sep	8720	17357	16349	30
2022	[96434] RED HILLS;BONE SPRING, NORTH	Oct	8758	16637	15570	31

2022	[96434] RED HILLS;BONE SPRING, NORTH	Nov	7936	13748	13626	30
2022	[96434] RED HILLS;BONE SPRING, NORTH	Dec	7316	10110	13793	31

Production Summary Report
 API: 30-025-46427
 RAIDER FEDERAL COM #701H
 Printed On: Friday, March 24 2023

		Production				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Apr	13599	25719	63027	11
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	May	37643	55068	79353	31
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Jun	26734	37568	43959	30
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Jul	21518	38276	36035	31
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Aug	18529	32589	24547	31
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Sep	15758	35241	27355	30
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Oct	14812	32495	23253	31
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Nov	13391	24864	24669	30
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Dec	13924	21857	23593	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Jan	12100	20764	21752	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Feb	9938	17259	17935	28
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Mar	11731	19199	18514	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Apr	11380	19444	18138	30
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	May	10714	20066	17956	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Jun	9421	17598	15818	30
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Jul	9139	15838	15147	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Aug	9256	15444	15722	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Sep	7916	15640	15471	30
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Oct	8391	16148	14966	31
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Nov	7833	14048	13497	30
2022	[2220] ANTELOPE RIDGE;WOLFCAMP	Dec	7288	13200	13915	31



Serial Register Page

Feb 11, 2021

01 12-22-1987;101STAT1330;30USC181 ET SE

Case Type: O&g lse comp pd -1987

Serial Number: NMNM 126971

Commodity: Oil & gas

Acres: 240.000

Disposition: Authorized

Lessee

Owner Name	Street	City	State	Zip	Net Acres	%Int
CENTENNIAL RESOURCES PRODUCTION LLC	1001 17TH ST STE 1800	DENVER	CO	80202-2058	240.000	100.00

Meridian:	New Mex	State:	NM	County:	Lea
Township:	24 S	Range:	34 E	Admin Agency	
Section:	21	NE,W2SE;		BUREAU OF LAND MGMT	

Code	Action	Date	Remarks
387	Case established	7/19/2011	201107010;
143	Bonus bid payment recd	7/20/2011	\$480.00;
191	Sale held	7/20/2011	
267	Bid received	7/20/2011	\$816000.00;
143	Bonus bid payment recd	8/2/2011	\$815520.00;
237	Lease issued	8/18/2011	
974	Automated record verif	8/18/2011	MV
496	Fund code	9/1/2011	05;145003
530	Rlty rate - 12 1/2%	9/1/2011	
868	Effective date	9/1/2011	
140	Asgn filed	11/7/2011	MILES RON/GMT EXPLO;1
139	Asgn approved	12/22/2011	EFF 12/01/11;
974	Automated record verif	12/22/2011	MJD
899	Trf of orr filed	4/7/2015	1
140	Asgn filed	7/13/2017	GMT EXPLO/CENTENNIA;1
139	Asgn approved	10/18/2017	EFF 8/1/2017
974	Automated record verif	10/18/2017	KM
246	Lease committed to ca	9/17/2018	NMNM139580;
650	Held by prod - actual	11/8/2018	/1/
658	Memo of 1st prod-actual	11/8/2018	/1/NMNM139580;#101H

<u>Code</u>	<u>Action</u>	<u>Date</u>	<u>Remarks</u>
643	Production determination	4/5/2019	/1/
<hr/>			
			<u>Remarks</u>
STIPULATIONS ATTACHED TO LEASE:			
NM-11-LN SPECIAL CULTURAL RESOURCE			
SENM-S-16 RAPTOR NESTS AND HERONRIES			
SENM-S-22 PRAIRIE CHICKENS			
RENTAL PAID 09/01/2011			
RENTAL PAID PER ONRR 9/1/2017			

RECEIVED
JAN 28 2019

BY: _____

3160-9 – COMMUNITIZATION

Model Form of a Federal Communitization AgreementContract No. MMNM 139580

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Township 24 South, Range 34 East, Lea County, New Mexico
Section 21: E/2 E/2

Containing 160.00 acres, being further described on Exhibit A attached hereto, and this agreement shall include only the **Bone Springs** Formation(s) underlying said lands and the oil, natural gas, and associated liquid hydrocarbons, hereinafter referred to as "communitized substances," producible from such formation(s).

2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit B, designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized areas.
3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by

C3078

the owners of the working interest in the communitized area, and four executed copies of a designation of successor operator shall be filed with the Authorized Officer.

4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas regulations.
5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement. All proceeds, 8/8ths, attributed to unleased Federal, State or fee land included within the CA area are to be placed in an interest earning escrow or trust account by the designated operator until the land is leased or ownership is established.
6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any non-communitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized production.
7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be

subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

10. The date of this agreement is **September 17, 2018** and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representatives, and shall remain in force and effect for a period of two years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The two-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interest of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all fee and State mineral operations within the communitized area to the extent necessary to monitor

production and measurement, and to assure that no avoidable loss of hydrocarbons occurs in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
15. Nondiscrimination: In connection with the performance of work under this agreement, the operator agrees to comply with all of the provisions of Section 202(1) to (7)

inclusive, of Executive Order 11246 (30 F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator & Working Interest Owner:
Centennial Resource Production, LLC

By: [Signature]

Name: Sean W. Marshall

Title: Vice President of Land

Date: January 7th, 2019

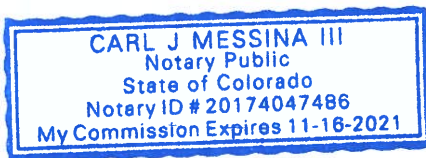
TLT

THE STATE OF TEXAS _____ §

§

COUNTY OF MIDLAND _____ §

This instrument was acknowledged before me on this 7th day of January, 2018⁹, by Sean W. Marshall, as Vice President of Land of Centennial Resource Production, LLC, a Delaware corporation.



Carl J. Messina III
Notary Public in and for the State of Texas

Record Title Owner:
EOG Resources, Inc.

By: [Signature] PCB

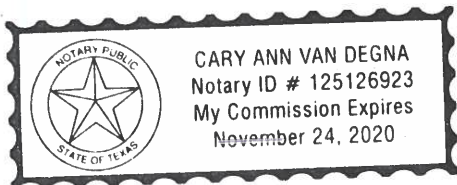
Name: Wendy Dalton

Title: Agent & Attorney-in-fact

Date: December 19, 2018

THE STATE OF Texas §
§
COUNTY OF Midland §

This instrument was acknowledged before me on this 19th day of December, 2018,
by Wendy Dalton, as Agent & Attorney-in-Fact of
EOG Resources, Inc, a Delaware corporation.



Cary Ann Van Degna
Notary Public in and for the State of Texas

Exhibit A

To Communitization Agreement dated August 30, 2018 embracing the E/2 E/2
Section 21, Township 24 South, Range 34 East, N.M.P.M.,
Lea County, New Mexico

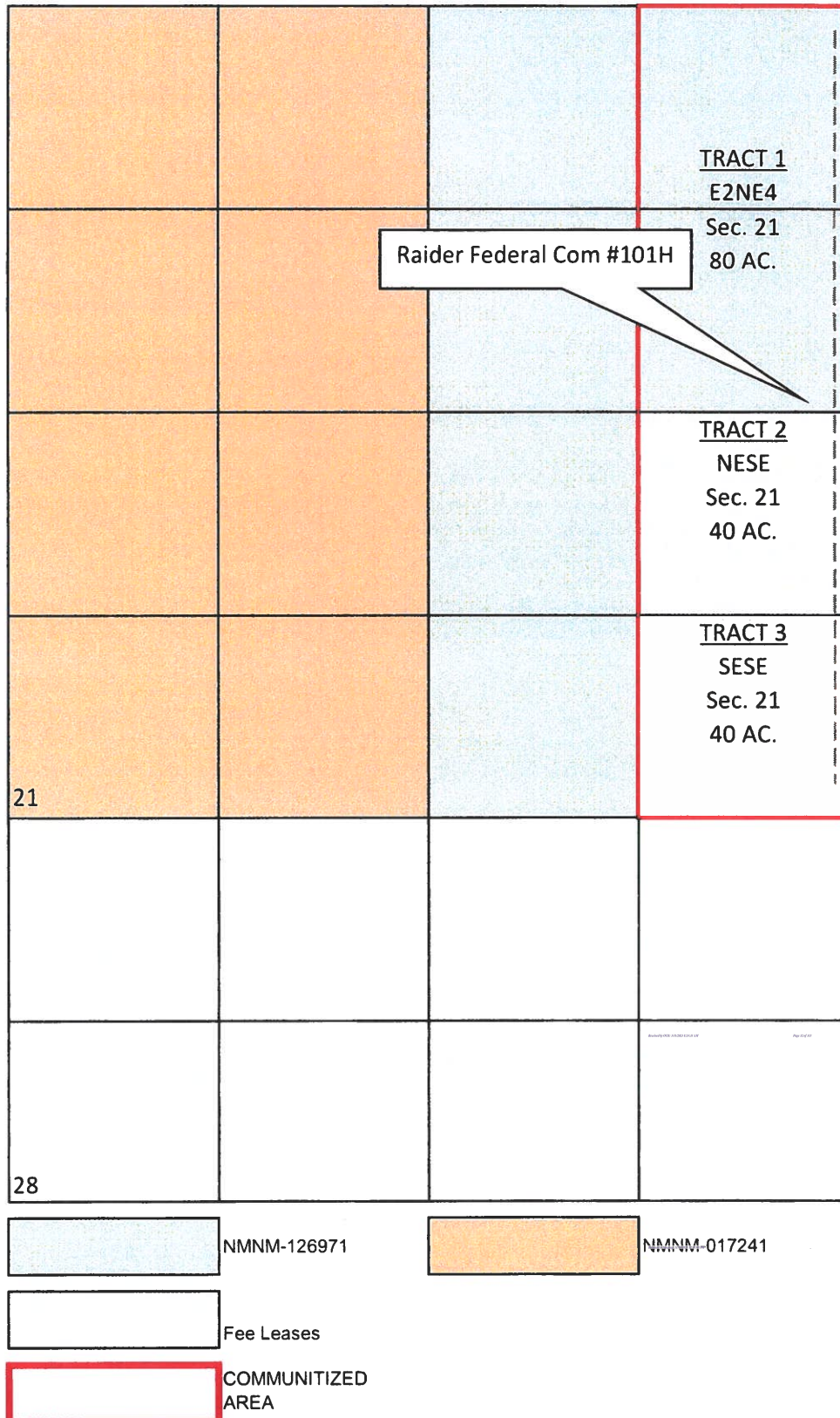


Exhibit B

To Communitization Agreement dated August 30, 2018 embracing E/2 E/2 Section 21,
Township 24 South, Range 34 East, N.M.P.M.,
Lea County, New Mexico

Operator of Communitized Area: Centennial Resource Production, LLC

Tract No. 1

Lease Serial No.: NMNM-126971

Description of Lands Committed: Insofar as lease covers E/2 NE/4 Section 21, T24S, R34E, Lea County, NM

Number of Acres: 80.00

Lessee of Record: Bureau of Land Management

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.000000%

Tract No. 2

Lease Type Fee Leases

Description of Lands Committed: Insofar as leases cover NESE, Section 21, T24S, R34E, Lea County, NM

Number of Acres: 40.00

Lessee of Record: Kirby D Schenck and Rita D Schenck Trusts
Beulah H. Simmons Trust, et al

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.000000%

Pooling Provision: Lease contains a provision authorizing pooling

Tract No. 3

Lease Type Fee Leases

Description of Lands Committed: Insofar as leases cover SESE, Section 21, T24S, R34E, Lea County, NM

Number of Acres: 40.00

Lessee of Record: Realeza Del Spears LP
Ryan Moore Trustee, et al

Michael Harrison Moore

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ 100.00000%

Pooling Provision: Lease contains a provision authorizing pooling

CMD : ONGARD 02/07/22 13:46:49
OG5COMM MAINTAIN COMMUNITIZATION AGREEMENT OGSBLL -PROD

Page No: 1

Comm Agr Name : RAIDER FEDERAL COM #502H COM NUM: 204174

Comm Location : Sec: 21 Twp: 24S Rng: 34E STR-Location: W2E2

Orig Operator : CENTENNIAL RESOURCE PRODUCTION, LLC

Curr Operator : CENTENNIAL RESOURCE PRODUCTION, LLC

Effective Date : 03-01-2021 Apprvl Date : 05-06-2021 Status : APP

Rej/Termn Date : Rej/Termn Reason :

County : LEA Inst : CS OCD Order# :

Remarks : ALSO IN E2 SECT 16; BONE SPRING FORMATION

Total Acreage : * Federal Acreage : * St Acreage : *

Fee Acreage : * Indian Acreage : *

Leases in Comm : VB1179 0003*

M0015: Table update is successful.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 DELETE PF06 CONFIRM

PF07 PF08 PF09 PF10 REINST PF11 TERMN PF12

CLR PA1 PA2 PA3

NEW MEXICO STATE LAND OFFICE

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

Centennial Resource Production, LLC
Raider Federal Com #502H
Bone Spring
Township: 24 South, Range: 34 East, NMPM
Section 16: W2E2
Section 21: W2E2

Lea County, New Mexico

There having been presented to the undersigned Commissioner of Public Lands of the State on New Mexico for examination, a Communitization Agreement for the development and operation of acreage which is described within the referenced Agreement dated **March 01, 2021**, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 7th day of February, 2022.



COMMISSIONER OF PUBLIC LANDS
of the State of New Mexico

Sec : 16 Twp : 24S Rng : 34E Section Type : NORMAL

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<div>M</div> <div>40.00</div> <div></div> <div>Federal owned</div> <div>A A A A A A</div>	<div>N</div> <div>40.00</div> <div></div> <div>Federal owned</div> <div>A A A A</div>	<div>O</div> <div>40.00</div> <div></div> <div>Federal owned</div> <div>C A A A A A A</div>	<div>P</div> <div>40.00</div> <div></div> <div>Fee owned</div> <div>C A A A A A A</div>

Section 21

Communitization Agreement				OGSSAD
Comm Agrmt Name	: Raider Federal Com #502H			ONGARD COM NUM: 204174
API	: 30-025-46300			SHL: Unit P of Sect 21 Pool: RED HILLS;BONE SPRING, NORTH
Comm Lands	:	Sec1: 16	Twpl: 24 South	Rng1: 34 East STR-Loc1: W2E2
Comm Lands Ext.	:	Sec2+: 21	Twpl+: 24 South	Rng2+: 34 East STR-Loc2+: W2E2
Curr Operator	: Centennial Resource Production, LLC (OGRID = 372165)			
First Production	:	04/30/21	Spud: 02/28/21	
Effective Date	:	03/01/21	Apprvl Date: 02/07/22	Status: APP
County	:	Lea	Inst: CS	OCD Order : _____
Formations/Remarks	: Signed CA covers the Bone Spring formation(s) or depths.			
Total Acreage	:	320	Federal Acreage: 160	State Acreage: 160
Fee Acreage	:	0	Indian Acreage: 0	
State Leases	:	VB-1179-3		
State Acres	:	160		
Signed Comm Agreement			Current CA Status as of: 2/7/2022 Signed - Completed	

**NM State Land Office
Oil, Gas, & Minerals Division**

**STATE/STATE OR
STATE/FEE**
Revised March 2017

COMMUNITIZATION AGREEMENT

ONLINE Version

KNOW ALL MEN BY THESE PRESENTS: Well Name: **Raider Fed Com 502H**

STATE OF NEW MEXICO)
SS)

API #: 30 - **25** - **46300**

COUNTY OF **Lea**)

THAT THIS AGREEMENT [which is NOT to be used for carbon dioxide or helium] is entered into as of **March 1**, 20 **21**, by and between the parties subscribing, ratifying or consenting hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico Statutes, Annotated, 1978, in the interest of conservation of oil & gas and the prevention of waste to consent to and approve the development or operation of State Trust Lands under agreements made by lessees of oil & gas leases thereon, jointly or severally with other oil & gas lessees of State Trust Lands, or oil and gas lessees or mineral owners of privately owned or fee lands, for the purpose of pooling or communitizing such lands to form a proration unit or portion thereof, or well-spacing unit, pursuant to any order, rule or regulation of the New Mexico Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department where such agreement provides for the allocation of the production of oil or gas from such pools or communitized areas on an acreage or other basis found by the Commissioner of Public Lands to be fair and equitable.

WHEREAS, the parties hereto, own working, royalty, or other leasehold interests or operating rights under the oil and gas leases and lands subject to this agreement, which leases are more particularly described in the schedule attached hereto, marked Exhibit "A" and made a part hereof, for all purposes; and

WHEREAS, said leases, insofar as they cover the **Bone Spring** formation or pool as defined by the NMOCD, as further described on Exhibit "A" (hereinafter referred to as "said formation") in and under the land hereinafter described cannot be independently developed and operated in conformity with the well spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

ONLINE version
March, 2017

State/State
State/Fee

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NOW THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as the "communitized area") are described as follows:

Subdivisions

W/2 E/2

Of Sect(s) **16,21** Twtnshp **24S** Rng **34E** NMPM **Lea** County, NM

containing **320** acres, more or less. It is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath the said land in accordance with the well spacing rules of the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize for proration or spacing purposes only the leases and/or depths described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "communitized substances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this agreement for all purposes, is Exhibit A showing the acreage, depths communitized and ownership (Lessees of Record) of all leases within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.

3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

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March, 2017

State/State
State/Fee

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4. **Centennial Resource Production, LLC** shall be the Operator of the said communitized area and all matters of operation shall be determined and performed by **Centennial Resource Production, LLC**

5. The State of New Mexico hereafter is entitled to the right to take in kind its share for the communitized substances allocated to such tract, and Operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

6. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area, nor shall the Operator be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

7. The commencement, completion, and continued operation or production of a well or wells of communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

8. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws. This agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

9. This agreement shall be effective as of the date hereinabove written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in paying quantities; provided, that this agreement shall not expire if there is a well capable of producing gas in paying quantities located upon some part of the communitized area, if such a well is shut-in due to the inability of the Operator to obtain a pipeline connection or to market the gas therefrom, and if either: **(a)** a shut-in royalty has been timely and properly paid pursuant to the provisions of one of the State of New Mexico oil and gas leases covering lands subject to this agreement so as to prevent the expiration of such lease; or **(b)** each of the State of New Mexico oil and gas leases covering lands subject to this agreement is in its primary term (if a five-year lease), or in its primary or secondary term (if a ten-year lease), or is held by production from another well. Provided further, however, that prior to production in paying quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this agreement may be

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March, 2017

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terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence. As to State Trust Lands, written notice of intention to commence such operations shall be filed with the Commissioner of Public Lands within thirty (30) days after the cessation of such production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and the Commissioner of Public Lands of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy Minerals and Natural Resources Department, upon which this agreement is predicated or based is in anyway changed or modified, then in such event said agreement is likewise modified to conform thereto.

13. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

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March, 2017

State/State
State/Fee

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OPERATOR: Centennial Resource Production, LLC

BY: **Skylar Fast, Land Manager**
Name and Title of Authorized Agent

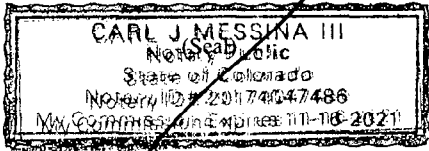
7. Skylar Fast
Signature of Authorized Agent

Acknowledgment in an Individual Capacity

State of **Colorado**)
County of **Denver**)

This instrument was acknowledged before me on April 19th, 2021 Date

By **Skylar Fast, Land Manager for Centennial Resource Production, LLC**
Name(s) of Person(s)



Carl J. Messina III
Signature of Notarial Officer

My commission expires: 11-16-2021

Acknowledgment in an Representative Capacity

State of)
County of)

This instrument was acknowledged before me on Date

By
Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

Signature of Authorized Agent

Acknowledgment in an Individual Capacity

State of)
County of)
SS)

This instrument was acknowledged before me on

Date _____

By

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

Acknowledgment in an Representative Capacity

State of)
County of)
SS)

This instrument was acknowledged before me on

Date _____

By

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

ONLINE version
March, 2017

State/State
State/Fee

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EXHIBIT A

Attached to and made a part of that Communitization Agreement dated **March 1, 2021**

by and between Centennial Resource Production, LLC company and Centennial Resource Production, LLC,

Centennial Resource Production, LLC

the Subdivisions **W/2 E/2**,
Sect **16,21**, Twnshp **24S**, Rnge **34E**, NMPM **Lea** County, NM

Limited in depth from **9,160** ft to **12,130** ft. (enter here what is granted in pooling order if applicable)

OPERATOR of Communitized Area: Centennial Resource Production, LLC

DESCRIPTION OF LEASES COMMITTED:

TRACT NO. 1

Lessor: **State of New Mexico**

Lessee of Record: Centennial Resource Production, LLC

Serial No. of Lease: **VB-1179-3** Date of Lease: **6/1/2007**

Description of Lands Committed:

Subdivisions: **W/2 E/2**
Sect **16** Twnshp **24S** Rng **34E** NMPM **Lea** County NM
No. of Acres: **160**

TRACT NO. 2

Lessor: **United States of America**

Lessee of Record: Centennial Resource Production, LLC

Serial No. of Lease: **NMNM-126971** Date of Lease: **9/1/2011**

Description of Lands Committed:

Subdivisions: **W/2 E/2**
Sect **21** Twnshp **24S** Rng **34E** NMPM **Lea** County NM
No. of Acres: **160**

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TRACT NO. 3

Lessor:

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands Committed:

Subdivisions:

Sect Twnshp Rng NMPM County NM

No. of Acres:

TRACT NO. 4

Lessor:

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands Committed:

Subdivisions:

Sect Twnshp Rng NMPM County NM

No. of Acres:

RECAPITULATION

Tract number	Number of Acres Committed	Percentage of Interest in Communitized Area
No. 1	160	50.000000%
No. 2	160	50.000000%
No. 3		
No. 4		
TOTAL	320	100%

ONLINE version
March, 2017

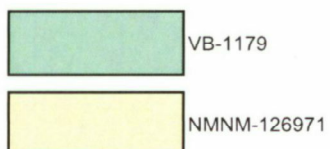
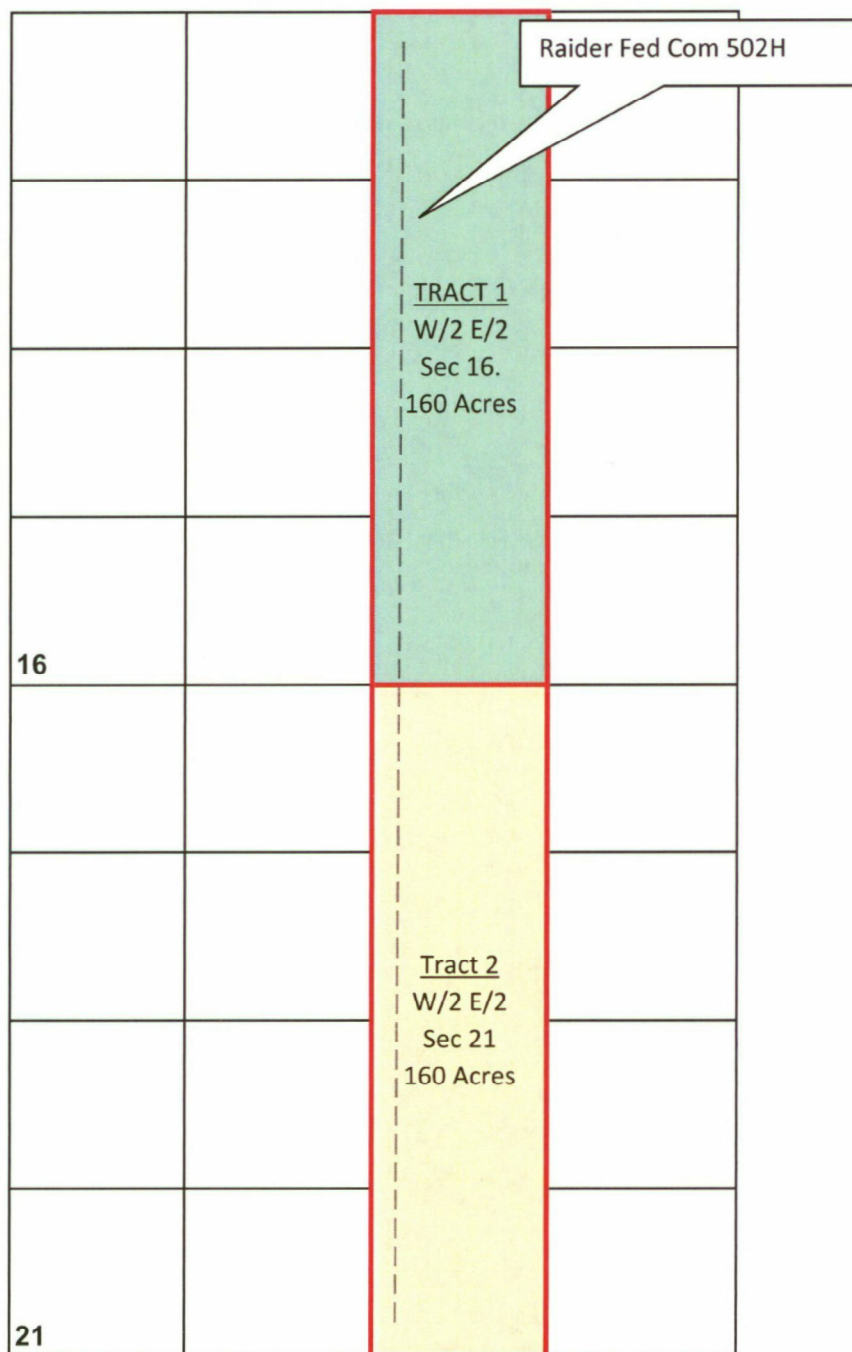
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Exhibit A

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico





COMMISSIONER

Stephanie Garcia Richard

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

Geoffrey Johnson
Centennial Resource Production, LLC
1001 17th Street, Suite 1800
Denver, CO 80202

February 7th, 2022

Re: Communitization Agreement Approval
Raider Federal Com #502H
Vertical Extent: Bone Spring
Township: 24 South, Range 34 East, NMPM
Section 16: W2E2
Section 21: W2E2

Lea County, New Mexico

Dear Mr. Johnson,

The Commissioner of Public Lands has this date approved the Raider Federal Com #502H Communitization Agreement for the Bone Spring formation effective 3-01-2021. Enclosed are three Certificates of Approval.

The agreement shall remain in effect for Two Years, and as long thereafter as communitized substances are produced from the communitized area in paying quantities.

Approval of this agreement does not warrant or certify that the operator and/or other working interest owners hold legal or equitable title to the leases which are committed hereto, nor does the Commissioner's approval constitute adjudication of any federal or private interests, or warrant or certify that the information supplied by the operator regarding federal or private interests is accurate.

If we may be of further service, please contact Baylen Lamkin at (505) 827-6628.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Garcia Richard", followed by a stylized flourish or initials.

Stephanie Garcia Richard
Commissioner of Public Lands



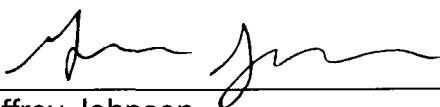
1001 17th Street, Suite 1800
Denver, CO 80202

Date: April 22, 2021
To: New Mexico State Land Office
Re: **Communitization Agreement** – W/2 E/2 Section 16,21 Township
24 South, Range 34 East, N.M.P.M., Lea County, New Mexico
API: 30-25-46300
Raider Fed Com 502H

To whom it may concern:

Please find enclosed the referenced communitization agreement. This agreement has been drafted to cover the **Bone Springs** formation and is based on a 320 acre spacing. Should you have any questions please contact me at geoffrey.johnson@cdevinc.com or 720-499-1513.

Centennial Resource Production, LLC

By: 
Geoffrey Johnson
Land Coordinator

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3160-9 – COMMUNITIZATION

Model Form of a Federal Communitization Agreement

Contract No. _____

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Township 24 South, Range 34 East, Lea County, New Mexico
Section 16: W/2 E/2

Township 24 South, Range 34 East, Lea County, New Mexico
Section 21: W/2 E/2
And

Containing 320 acres, being further described on Exhibit A attached hereto, and this agreement shall include only the **Bone Spring** Formation(s) underlying said lands and the oil, natural gas, and associated liquid hydrocarbons, hereinafter referred to as "communitized substances," producible from such formation(s).

2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit B, designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized

- area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized areas.
3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area, and four executed copies of a designation of successor operator shall be filed with the Authorized Officer.
 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas regulations.
 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement. All proceeds, 8/8ths, attributed to unleased Federal, State or fee land included within the CA area are to be placed in an interest earning escrow or trust account by the designated operator until the land is leased or ownership is established.
 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any non-communitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized production.
 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.

9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.
10. The date of this agreement is **March 1, 2021** and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representatives, and shall remain in force and effect for a period of two years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The two-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interest of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all fee and State mineral operations within the communitized area to the extent necessary to monitor

production and measurement, and to assure that no avoidable loss of hydrocarbons occurs in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties

who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. Nondiscrimination: In connection with the performance of work under this agreement, the operator agrees to comply with all of the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30 F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator & Working Interest Owner:
Centennial Resource Production, LLC

By: 7.8.21 3f MS

Name: Skylar Fast

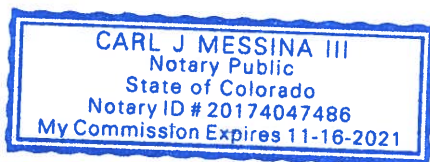
Title: Land Manager

Date: 4-19-2021

THE STATE OF COLORADO §
 §
COUNTY OF DENVER §

This instrument was acknowledged before me on this 19th day of April, 2021, by Skylar Fast, as Land Manager of Centennial Resource Production, LLC, a Delaware corporation.

Carl J. Messina III
Notary Public in and for the State of Colorado



RECAPITULATION

Tract No.	No. of Acres Committed	Percentage of Interest in the Communitized Area
1	160.00	50.0000%
2	160.00	50.0000%
Total	320.00	100.000000%

Exhibit A

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico

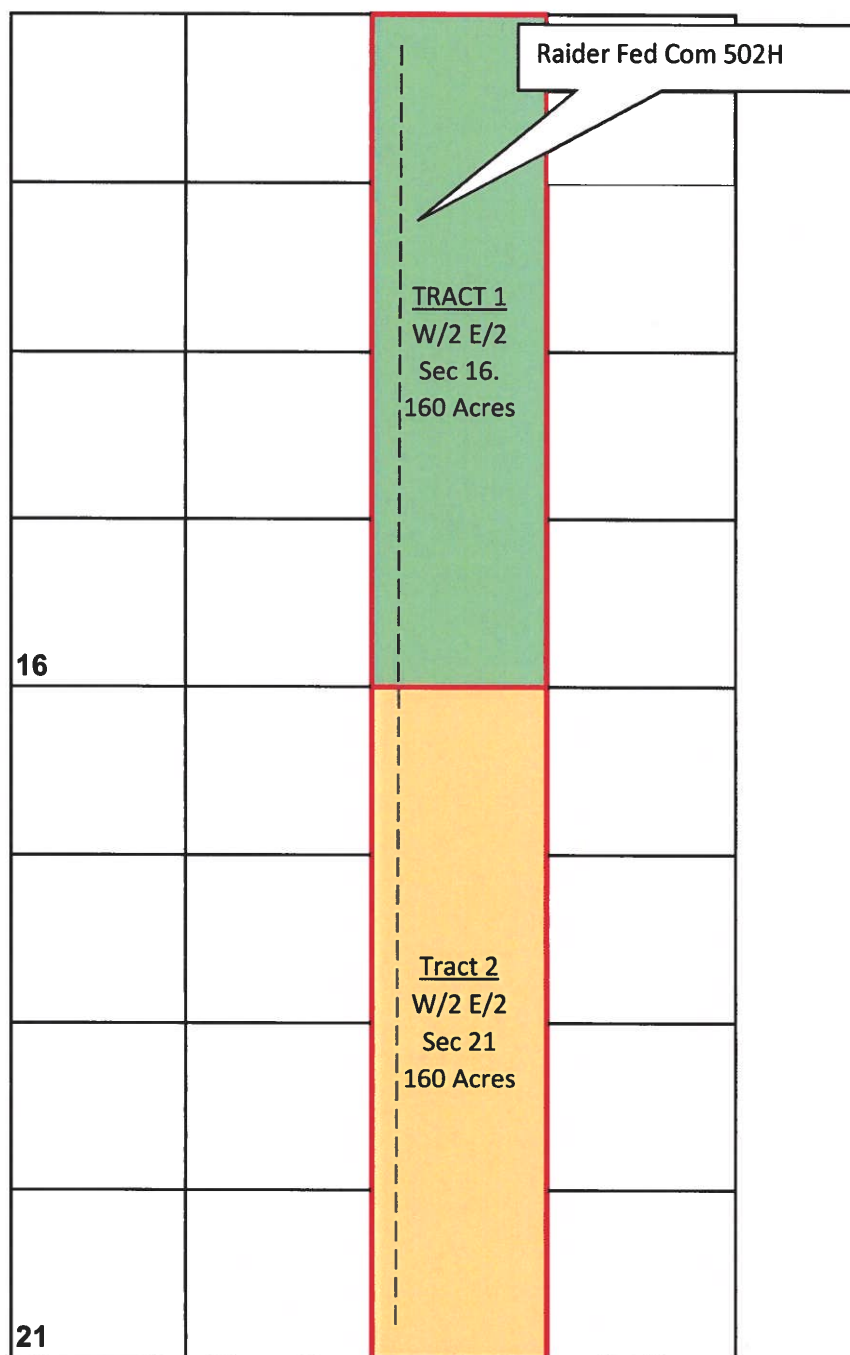


Exhibit B

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico

Operator of Communitized Area: Centennial Resource Production, LLC**Tract No. 1**

Lease Serial No.: VB-1179

Description of Lands Committed: Insofar as lease covers W/2 E/2 Section 16, T24S, R34E, Lea County, NM

Number of Acres: 160.00

Lessor of Record: State of New Mexico

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.00000%

Tract No. 2

Lease Serial No.: NMNM-126971

Description of Lands Committed: Insofar as lease covers W/2 E/2 Section 21, T24S, R34E, Lea County, NM

Number of Acres: 160.00

Lessor of Record: United States of America

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.00000%

CMD : ONGARD 08/27/21 14:56:32
OG5COMM MAINTAIN COMMUNITIZATION AGREEMENT OGSNKK -PROD

Page No: 1

Comm Agr Name : RAIDER FEDERAL COM #701H COM NUM: 204176

Comm Location : Sec: 21 Twp: 24S Rng: 34E STR-Location: W2E2

Orig Operator : CENTENNIAL RESOURCE PRODUCTION, LLC

Curr Operator : CENTENNIAL RESOURCE PRODUCTION, LLC

Effective Date : 03-01-2021 Apprvl Date : 05-06-2021 Status : APP

Rej/Termn Date : Rej/Termn Reason :

County : LEA Inst : OCD Order# :

Remarks : ALSO IN W2E2 SECT 16; WOLFCAMP FORMATION

Total Acreage : 320.00 Federal Acreage : 160.00 St Acreage : 160.00

Fee Acreage : Indian Acreage :

Leases in Comm : VB1179 0003*

E0005: Enter data to modify or PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05 DELETE	PF06 CONFIRM
PF07	PF08	PF09	PF10 REINST	PF11 TERMN	PF12

CLR PA1 PA2 PA3

CMD : ☐
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

08/17/21 15:58:43
OGSNKK -PROD
PAGE NO: 1

Sec : 16 Twp : 24S Rng : 34E Section Type : NORMAL

D 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14 A A A A A A	C 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14 A A A A A A	B 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12 A A A	A 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12 A A
E 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14	F 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14	G 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12	H 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12
L 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14	K 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14	J 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12	I 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12
M 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14 A A	N 40.00 CS VB1744 0001 EOG RESOURCES INC 10/01/14 A A	O 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12 A	P 40.00 CS VB1179 0003 CENTENNIAL RESOUR C 06/01/12 C A A A A
<input type="checkbox"/> D 40.00 Federal owned	C 40.00 Federal owned	B 40.00 Federal owned C A A	A 40.00 Federal owned C A A A A
E 40.00 Federal owned	F 40.00 Federal owned	G 40.00 Federal owned C	H 40.00 Federal owned C
L 40.00 Federal owned	K 40.00 Federal owned	J 40.00 Federal owned C	I 40.00 Fee owned C
M 40.00 Federal owned A A A A A A	N 40.00 Federal owned A A A A	O 40.00 Federal owned C A A A	P 40.00 Fee owned C A A A A A

Sect 21

NEW MEXICO STATE LAND OFFICE

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

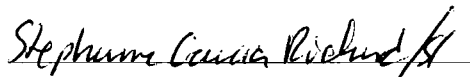
Centennial Resource Production LLC
Raider Federal Com #701H
Vertical Extent: Wolfcamp
Township: 24 South, Range: 34 East, NMPM
Section 16 : W2E2
Section 21 : W2E2
Lea County, New Mexico

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, a Consolidation Agreement for the development and operation of acreage which is described within the referenced Agreement dated **March 1, 2021**, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this **16th day of August, 2021**.


COMMISSIONER OF PUBLIC LANDS
of the State of New Mexico

Communitization Agreement				OGSNKK
Comm Agrmt Name	: Raider Federal Com #701H			ONGARD COM NUM:
API	: 30-025-46427	SHL: Unit O of Sect 21	Pool: ANTELOPE RIDGE;WOLFCAMP	
Comm Lands	:	Sec1: 16	Twpl: 24 South	Rng1: 34 East STR-Loc1: W2E2
Comm Lands Ext.	:	Sec2+: 21	Twpl+: 24 South	Rng2+: 34 East STR-Loc2+: W2E2
Curr Operator	: Centennial Resource Production LLC (OGRID = 372165)			
First Production	: 04/20/21		Spud: 02/22/21	
Effective Date	: 03/01/21		Apprvl Date: 05/06/21	Status: APP
County	: Lea		Inst: CS	OCD Order : _____
Formations/Remarks	: Signed CA covers the Wolfcamp formation(s) or depths.			
Total Acreage	:	320	Federal Acreage: 160	State Acreage: 160
Fee Acreage	:	0	Indian Acreage: 0	
State Leases	:	VB-1179-3		
State Acres	:	160		
Signed Comm Agreement			Current CA Status as of: 8/17/2021 Signed - Awaiting Approval	

**NM State Land Office
Oil, Gas, & Minerals Division**

**STATE/STATE OR
STATE/FEE**
Revised March 2017

COMMUNITIZATION AGREEMENT

ONLINE Version

KNOW ALL MEN BY THESE PRESENTS:

Well Name: **Raider Fed Com 701H**

STATE OF NEW MEXICO)
SS)

API #: 30 - **25 - 46427**

COUNTY OF **Lea**)

THAT THIS AGREEMENT [which is NOT to be used for carbon dioxide or helium] is entered into as of **March 1**, 20 **21**, by and between the parties subscribing, ratifying or consenting hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico Statutes, Annotated, 1978, in the interest of conservation of oil & gas and the prevention of waste to consent to and approve the development or operation of State Trust Lands under agreements made by lessees of oil & gas leases thereon, jointly or severally with other oil & gas lessees of State Trust Lands, or oil and gas lessees or mineral owners of privately owned or fee lands, for the purpose of pooling or communitizing such lands to form a proration unit or portion thereof, or well-spacing unit, pursuant to any order, rule or regulation of the New Mexico Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department where such agreement provides for the allocation of the production of oil or gas from such pools or communitized areas on an acreage or other basis found by the Commissioner of Public Lands to be fair and equitable.

WHEREAS, the parties hereto, own working, royalty, or other leasehold interests or operating rights under the oil and gas leases and lands subject to this agreement, which leases are more particularly described in the schedule attached hereto, marked Exhibit "A" and made a part hereof, for all purposes; and

WHEREAS, said leases, insofar as they cover the **Wolfcamp** formation or pool as defined by the NMOCD, as further described on Exhibit "A" (hereinafter referred to as "said formation") in and under the land hereinafter described cannot be independently developed and operated in conformity with the well spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

ONLINE version
March, 2017

State/State
State/Fee

1

NOW THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as the "communitized area") are described as follows:

Subdivisions

W/2 E/2

Of Sect(s) **16,21** Twnshp **24S** Rng **34E** NMPM **Lea** County, NM

containing **320** acres, more or less. It is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath the said land in accordance with the well spacing rules of the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize for proration or spacing purposes only the leases and/or depths described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "communitized substances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this agreement for all purposes, is Exhibit A showing the acreage, depths communitized and ownership (Lessees of Record) of all leases within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.

3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

ONLINE version
March, 2017

State/State
State/Fee

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4. **Centennial Resource Production, LLC** shall be the Operator of the said communitized area and all matters of operation shall be determined and performed by **Centennial Resource Production, LLC**

5. The State of New Mexico hereafter is entitled to the right to take in kind its share for the communitized substances allocated to such tract, and Operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

6. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area, nor shall the Operator be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

7. The commencement, completion, and continued operation or production of a well or wells of communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

8. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws. This agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

9. This agreement shall be effective as of the date hereinabove written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in paying quantities; provided, that this agreement shall not expire if there is a well capable of producing gas in paying quantities located upon some part of the communitized area, if such a well is shut-in due to the inability of the Operator to obtain a pipeline connection or to market the gas therefrom, and if either: (a) a shut-in royalty has been timely and properly paid pursuant to the provisions of one of the State of New Mexico oil and gas leases covering lands subject to this agreement so as to prevent the expiration of such lease; or (b) each of the State of New Mexico oil and gas leases covering lands subject to this agreement is in its primary term (if a five-year lease), or in its primary or secondary term (if a ten-year lease), or is held by production from another well. Provided further, however, that prior to production in paying quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this agreement may be

ONLINE version
March, 2017

State/State
State/Fee

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terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence. As to State Trust Lands, written notice of intention to commence such operations shall be filed with the Commissioner of Public Lands within thirty (30) days after the cessation of such production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, and the Commissioner of Public Lands of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy Minerals and Natural Resources Department, upon which this agreement is predicated or based is in anyway changed or modified, then in such event said agreement is likewise modified to conform thereto.

13. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

ONLINE version
March, 2017

State/State
State/Fee

4

LEASE #: _____

LESSEE OF RECORD: _____

BY: _____
Name & Title of Authorized Agent

Signature of Authorized Agent

Acknowledgment in an Individual Capacity

State of)
SS)
County of)

This instrument was acknowledged before me on

Date

By

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

Acknowledgment in an Representative Capacity

State of)
SS)
County of)

This instrument was acknowledged before me on

Date

By

Name(s) of Person(s)

(Seal)

Signature of Notarial Officer

My commission expires: _____

ONLINE version
March, 2017

State/State
State/Fee

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EXHIBIT A

Attached to and made a part of that Communitization Agreement dated **March 1, 2021**

by and between **Centennial Resource Production, LLC** company and **Centennial Resource Production, LLC**,

Centennial Resource Production, LLC

the Subdivisions **W/2 E/2**,
Sect **16,21**, Twnshp **24S**, Rnge **34E**, NMPM **Lea** County, NM

Limited in depth from **12,130** ft to **13,330** ft. (enter here what is granted in pooling order if applicable)

OPERATOR of Communitized Area: **Centennial Resource Production, LLC**

DESCRIPTION OF LEASES COMMITTED:

TRACT NO. 1

Lessor: **State of New Mexico**

Lessee of Record: **Centennial Resource Production, LLC**

Serial No. of Lease: **VB-1179** Date of Lease: **6/1/2007**

Description of Lands Committed:

Subdivisions: **W/2 E/2**
Sect **16** Twnshp **24S** Rng **34E** NMPM **Lea** County NM
No. of Acres: **160**

TRACT NO. 2

Lessor: **United States of America**

Lessee of Record: **Centennial Resource Production, LLC**

Serial No. of Lease: **NMNM-126971** Date of Lease: **9/1/2011**

Description of Lands Committed:

Subdivisions: **W/2 E/2**
Sect **21** Twnshp **24S** Rng **34E** NMPM **Lea** County NM
No. of Acres: **160**

ONLINE version
March, 2017

State/State
State/Fee

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TRACT NO. 3

Lessor:

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands Committed:

Subdivisions:

Sect Twnshp Rng NMPM County NM

No. of Acres:

TRACT NO. 4

Lessor:

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands Committed:

Subdivisions:

Sect Twnshp Rng NMPM County NM

No. of Acres:

RECAPITULATION

Tract number	Number of Acres Committed	Percentage of Interest in Communitized Area
No. 1	160	50.000000%
No. 2	160	50.000000%
No. 3		
No. 4		
TOTAL	320	100%

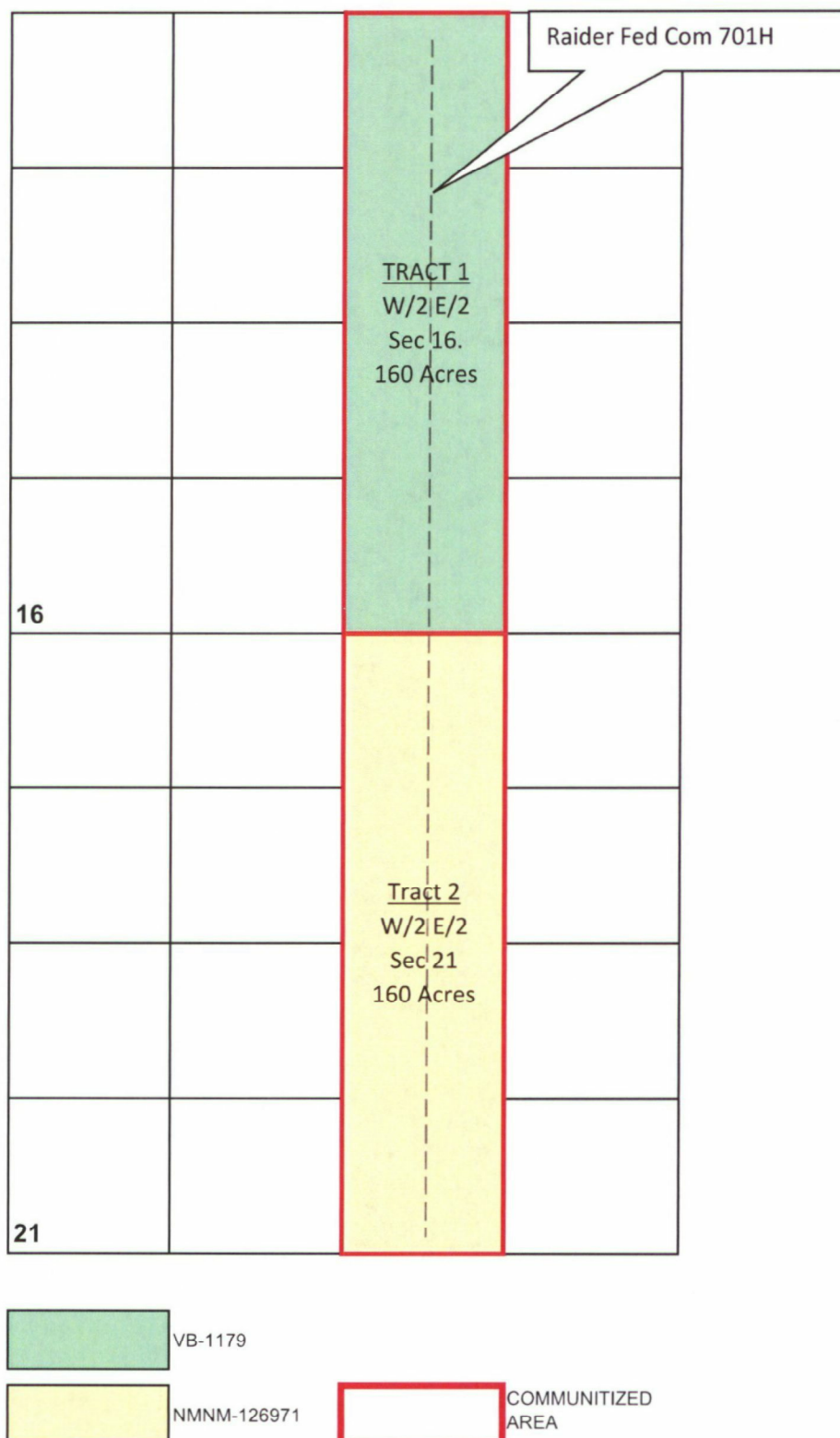
ONLINE version
March, 2017

State/State
State/Fee

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Exhibit A

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico





COMMISSIONER

Stephanie Garcia Richard

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

Geoffrey Johnson
Centennial Resource Production LLC
1001 17th St., Suite 1800
Denver, CO, 80202

August 16th, 2021

Re: Communitization Agreement Approval
Raider Federal Com #701H
Vertical Extent: Wolfcamp
Township: 24 South, Range 34 East, NMPM
Section 16: W2E2
Section 21 : W2E2
Lea County, New Mexico

Dear Mr Johnson,

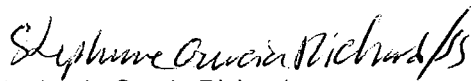
The Commissioner of Public Lands has this date approved the Raider Federal Com #701H Communitization Agreement for the Wolfcamp formation effective 3/1/2021. Enclosed are three Certificates of Approval.

The agreement shall remain in effect for Two Years, and as long thereafter as communitized substances are produced from the communitized area in paying quantities.

Approval of this agreement does not warrant or certify that the operator and/or other working interest owners hold legal or equitable title to the leases which are committed hereto, nor does the Commissioner's approval constitute adjudication of any federal or private interests, or warrant or certify that the information supplied by the operator regarding federal or private interests is accurate.

If we may be of further service, please contact Niranjana Khalsa at (505) 827-6628.

Sincerely,


Stephanie Garcia Richard
COMMISSIONER OF PUBLIC LANDS



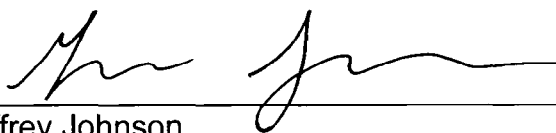
1001 1st Street, Suite 1800
Denver, CO 80202

Date: April 22, 2021
To: New Mexico State Land Office
Re: **Communitization Agreement** – W/2 E/2 Section 16,21 Township
24 South, Range 34 East, N.M.P.M., Lea County, New Mexico
API: 30-25-46427
Raider Fed Com 701H

To whom it may concern:

Please find enclosed the referenced communitization agreement. This agreement has been drafted to cover the **Wolfcamp** formation and is based on a 320 acre spacing. Should you have any questions please contact me at geoffrey.johnson@cdevinc.com or 720-499-1513.

Centennial Resource Production, LLC

By: 
Geoffrey Johnson
Land Coordinator

44-111-1000
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3160-9 – COMMUNITIZATION

Model Form of a Federal Communitization Agreement

Contract No. _____

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Township 24 South, Range 34 East, Lea County, New Mexico
Section 16: W/2 E/2

Township 24 South, Range 34 East, Lea County, New Mexico
Section 21: W/2 E/2

And

Containing 320 acres, being further described on Exhibit A attached hereto, and this agreement shall include only the **Wolfcamp** Formation(s) underlying said lands and the oil, natural gas, and associated liquid hydrocarbons, hereinafter referred to as "communitized substances," producible from such formation(s).

2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit B, designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized

- area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized areas.
3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area, and four executed copies of a designation of successor operator shall be filed with the Authorized Officer.
 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas regulations.
 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement. All proceeds, 8/8ths, attributed to unleased Federal, State or fee land included within the CA area are to be placed in an interest earning escrow or trust account by the designated operator until the land is leased or ownership is established.
 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any non-communitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized production.
 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.

9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.
10. The date of this agreement is **March 1, 2021** and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representatives, and shall remain in force and effect for a period of two years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The two-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interest of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all fee and State mineral operations within the communitized area to the extent necessary to monitor

production and measurement, and to assure that no avoidable loss of hydrocarbons occurs in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties

who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. **Nondiscrimination:** In connection with the performance of work under this agreement, the operator agrees to comply with all of the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30 F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator & Working Interest Owner:

Centennial Resource Production, LLC

By: Skylar Fast

Name: Skylar Fast

Title: Land Manager

Date: 4-19-2021

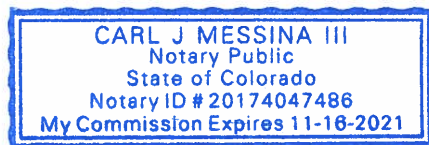
THE STATE OF COLORADO §

COUNTY OF DENVER §

This instrument was acknowledged before me on this 19th day of April, 2021, by Skylar Fast, as Land Manager of Centennial Resource Production, LLC, a Delaware corporation.

Carl J. Messina III

Notary Public in and for the State of Colorado



RECAPITULATION

Tract No.	No. of Acres Committed	Percentage of Interest in the Communitized Area
1	160.00	50.0000%
2	160.00	50.0000%
Total	320.00	100.000000%

Exhibit A

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico

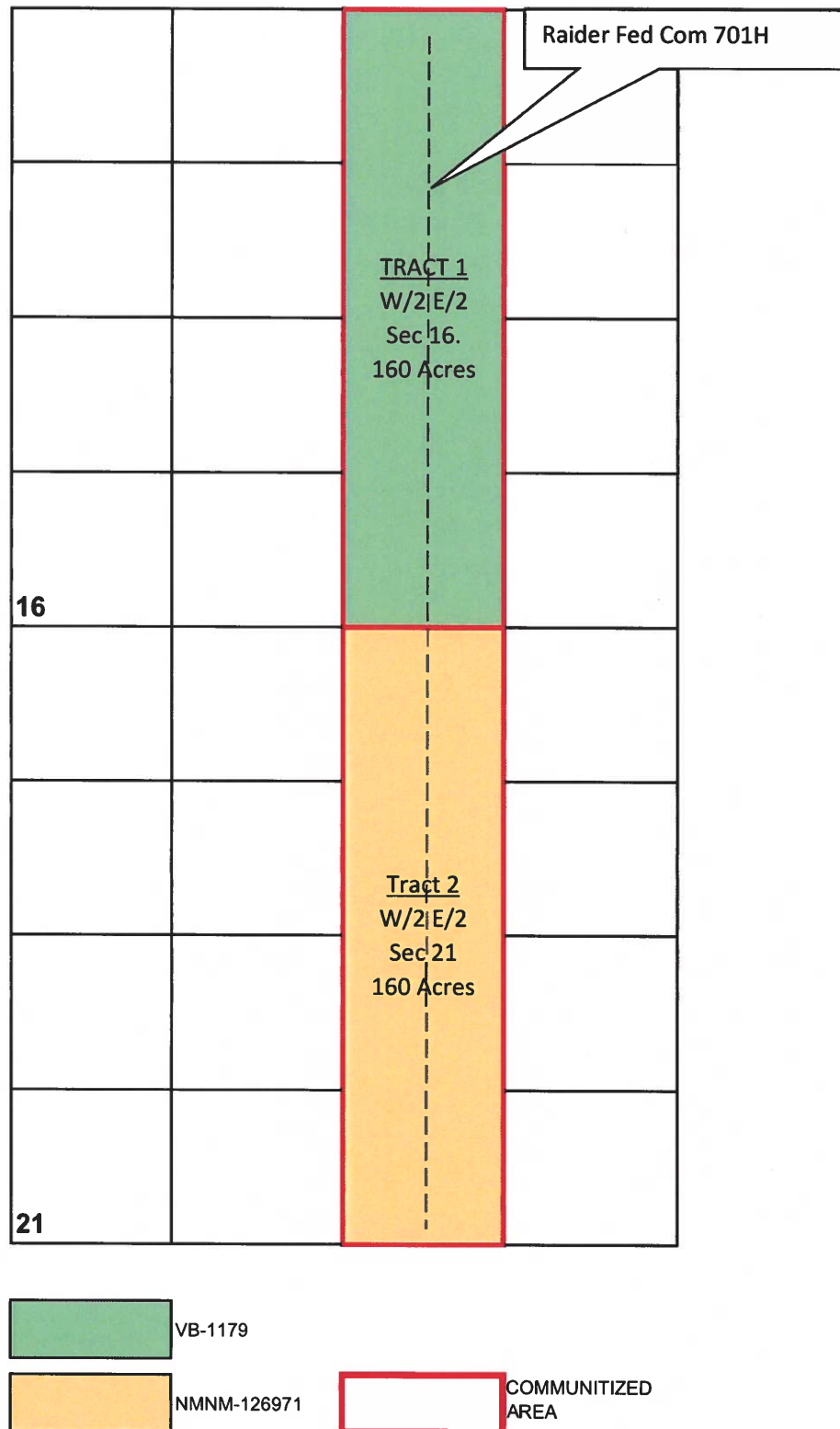


Exhibit B

To Communitization Agreement dated March 1, 2021 embracing W/2 E/2 Section 16, Township 24 South, Range 34 East, N.M.P.M, and W/2 E/2 Section 21, Township 24 South, Range 34 East, N.M.P.M, Lea County, New Mexico

Operator of Communitized Area: Centennial Resource Production, LLC**Tract No. 1**

Lease Serial No.: VB-1179

Description of Lands Committed: Insofar as lease covers W/2 E/2 Section 16, T24S, R34E, Lea County, NM

Number of Acres: 160.00

Lessor of Record: State of New Mexico

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.00000%

Tract No. 2

Lease Serial No.: NMNM-126971

Description of Lands Committed: Insofar as lease covers W/2 E/2 Section 21, T24S, R34E, Lea County, NM

Number of Acres: 160.00

Lessor of Record: United States of America

Name and Percent WI Owners: Centennial Resource Production, LLC _ _ _ _ 100.00000%

Raider CTB 1 Notice List

Name	Addresss	Certified Mail Number
Bureau of Land Management	Bureau of Land Management Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220	Via AFMSS Sundry
GMT New Mexico Royalty Company	4949 S Niagara, Suite 250 Denver, CO 80237	7022 0410 0001 7989 5975
Centennial Resource Production, LLC/Permian Resources Operating, LLC	1001 17th Street, Suite 1800 Denver, CO 80202	Self
New Mexico Oil Conservation Division Attn: Mr. Dean McClure	1220 South St. Francis Drive Santa Fe, NM 87505	Via OCD Online
New Mexico State Land Office	310 Old Santa Fe Trail Santa Fe, NM 87504	7022 0410 0001 7989 5968
Sharbro Energy LLC	505 W Main St Artesia, NM 88210	7022 0410 0001 7989 6149

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
January 22, 2023
and ending with the issue dated
January 22, 2023.



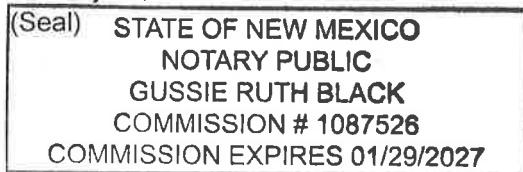
Publisher

Sworn and subscribed to before me this
22nd day of January 2023.



Business Manager

My commission expires
January 29, 2027



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
January 22, 2023

Centennial Resource Production, LLC is applying to surface and pool commingle five wells to a central tank battery in Lea County, New Mexico. The central tank battery will be located at the Raider Federal Com 502H well pad. The five wells, details and locations are the following:

Raider Fed Com 502H located in the southeast quarter of section 21, T24S, R34E, Unit P, 300 FSL & 1040 FEL, Red Hills; Bone Spring, North.

Raider Fed Com 701H located in the southeast quarter of section 21, T24S, R34E, Unit O, 300 FSL & 1730 FEL, Antelope Ridge; WC.

Raider Fed Com 302H located in the northeast quarter of section 21, T24S, R34E, Unit A, 433 FNL & 1272 FEL, Red Hills; Bone Spring, North.

Raider Fed Com 102H located in the southeast quarter of section 21, T24S, R34E, Unit O, 355 FSL & 1730 FEL, Red Hills; Bone Spring, North.

Raider Fed Com, 103H located in the southeast quarter of section 21, T24S, R34E, Unit O, 355 FSL & 1700 FEL, Red Hills; Bone Spring, North.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, within 20 days. Additional information can be obtained by contacting Sarah Ferreyros, Centennial Resource Production, LLC, 1001 17th Street, Suite 1800, Denver, CO 80202. Phone number is 720-499-1454.

#00275109

67117609

00275109

KATIE BIERSMITH
PERMIAN RESOURCES
1001 17th Street
Suite 1800
Denver, CO 80202



September 28, 2021

Oil Conservation Division
Attn: Dean McClure
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Application for Surface Commingle:

Raider Fed Com 502H	Raider Fed Com 701H
API# 30-025-46300	API# 30-025-46427
Sec 21, T24S, R34E, Unit P	Sec 21, T24S, R34E, Unit O
300' FSL & 1040' FEL	300' FSL & 1730' FEL
Red Hills; Bone Spring	Antelope Ridge; Wolfcamp
Lea County, New Mexico	Lea County, New Mexico

Dean McClure,

Centennial Resource Production, LLC respectfully requests approval to Surface commingle our Raider Fed Com 502H and 701H wells into a central tank battery and a Pool commingle. They both have their own separators. Please see the attached detailed description.

I have attached a facility diagram, C102's, Map, C107B, Admin checklist and notice info. If you need additional information, please give me a call at 720-499-1537.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Schlichting".

Kanicia Schlichting
Sr. Regulatory Analyst
Kanicia.schlichting@cdevinc.com

Revised March 23, 2017

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: <u>Centennial Resource Production, LLC</u>	OGRID Number: <u>372165</u>
Well Name: <u>Raider Fed Com 502H & 701H</u>	API: <u>30-025-46300, 30-025-46427</u>
Pool: <u>Red Hills; Bone Spring, North & Antelope Ridge; Wolfcamp</u>	Pool Code: <u>96434, 2220</u>

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

- ☐ Notice Complete
☐ 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.

Kanicia Schlichting

Print or Type Name

Signature

9/28/21

Date

720-499-1537

Phone Number

kanicia.schlichting@cdevinc.com

e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
1220 S. St Francis Drive
Santa Fe, New Mexico 87505

Form C-107-B
Revised August 1, 2011

Submit the original
application to the Santa Fe
office with one copy to the
appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME: Centennial Resource Production, LLC
OPERATOR ADDRESS: 1001 17th Street, Suite 1800, Denver, CO 80202
APPLICATION TYPE:

☒ Pool Commingling ☒ Lease Commingling ☐ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE: ☐ Fee ☒ State ☐ Federal

Is this an Amendment to existing Order? ☐ Yes ☒ No If "Yes", please include the appropriate Order No. _____
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling
☐ Yes ☒ No

(A) POOL COMMINGLING

Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes
Red Hills; Bone Spring 96434					
Antelope Ridge; Wolfcamp 2220					

- (2) Are any wells producing at top allowables? ☐ Yes ☒ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No.
(4) Measurement type: ☒ Metering ☐ Other (Specify)
(5) Will commingling decrease the value of production? ☐ Yes ☒ No If "yes", describe why commingling should be approved

(B) LEASE COMMINGLING

Please attach sheets with the following information

- (1) Pool Name and Code. Red Hills; Bone Spring 96434, Antelope Ridge; Wolfcamp 2220
(2) Is all production from same source of supply? ☒ Yes ☐ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No
(4) Measurement type: ☒ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING

Please attach sheets with the following information

- (1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT

Please attached sheets with the following information

- (1) Is all production from same source of supply? ☐ Yes ☐ No
(2) Include proof of notice to all interest owners.

(E) ADDITIONAL INFORMATION (for all application types)

Please attach sheets with the following information

- (1) A schematic diagram of facility, including legal location.
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.
(3) Lease Names, Lease and Well Numbers, and API Numbers.

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

SIGNATURE: K. Schlichting TITLE: Sr. Regulatory Analyst DATE: 9/27/21
TYPE OR PRINT NAME Kanicia Schlichting TELEPHONE NO.: 720-499-1537
E-MAIL ADDRESS: kanicia.schlichting@cdevinc.com

APPLICATION FOR SURFACE POOL/LEASE COMMINGLING

Centennial Resource Production, LLC ("CRP") respectfully requests approval to surface pool/lease commingle oil & gas from the following wells:

GENERAL INFORMATION:

	API	WELL NAME	WELL #	LOCATION	POOL CODE/NAME	LEASE/CA NUMBER	PRODUCTION TYPE	FEDERAL ROYALTY RATE
1	30-025-46300	RAIDER FEDERAL COM	502H	21-24S-34E	[96434] Red Hills; Bone Spring, North	NMNM126971 CA Pending	Oil & Gas	12.5%
2	30-025-46427	RAIDER FEDERAL COM	701H	21-24S-34E	[2220] Antelope Ridge; Wolfcamp	NMNM126971 CA Pending	Oil & Gas	12.5%

This commingling will follow under the following section of 43 CFR 3173.14 (a)(1)(iii) they are applying for approval under:

(1) The proposed commingling includes production from more than one:

(iii) Federal unit PA or CA where each unit PA or CA proposed for commingling has the same proportion of Federal interest, and which interest is subject to the same fixed royalty rate and revenue distribution. (For example, the BLM could approve a commingling request under this paragraph where an operator proposes to commingle two Federal CAs of mixed ownership and both CAs are 50 percent Federal/50 percent private, so long as the Federal interests have the same royalty rates and royalty distributions.); or

In addition to the Sundry Notice (Form 3160-5), the operator must submit the following information with the sundry.

A statement that the CAA will not negatively affect the royalty revenue of the federal government: **Centennial Resource Production, LLC statement: Application to commingle production from the Raider Federal Com #701H and the Raider Federal Com #502H. The approval of this commingling application will not negatively affect the royalty revenue of the federal government due to the allocation methodology described in the application. The interest owned by the federal government in each of these wells is identical. The approval of this application will also provide for reduced surface disturbance in this development area.**

1. A list of all Federal or Indian lease, unit PA, or CA numbers in the proposed Commingling and Allocation Approval (CAA). This list should include:
 - a. The specific type of production (oil, gas, or both)
 - b. The royalty rates of the individual leases, unit PAs, or Cas: **Please see table at the top of this page, plus detailed page attached.**
 - i. Please include a printout of the MASS Serial Register Page: **Attached**
2. A proposed allocation agreement (including allocation of produced water) that includes:
 - a. An allocation methodology: **Attached**
 - b. An example of how the methodology is applied (multiple examples may be included to ensure clarity): **Attached**
 - i. Include a step-by-step explanation for all data and calculations used in the applied methodology example (this can be a part of 3(a))
 - c. A statement that any allocation meters (non-FMPs) will meet either FMP regulations or API measurement standards: **Centennial Resource Production, LLC statement: Our meters will meet API Standard 14.3/AGA Report No 3 or Onshore API standard 18.2.**
 - i. Please include relevant regulation or standard numbers
 - d. A copy of the agreement signed by each operator of each of the leases, unit PAs, or CAs from which production would be included in the CAA (if more than one operator is involved): **N/A**

3. A topographic map of appropriate scale (multiple maps may be included to ensure clarity) that includes: **Attached**
 - a. The boundaries of all the leases, unit PAs, or CAs that are proposed for the CAA
 - b. The location of all existing or planned facilities
 - c. The location of all wells (including API numbers) that are in the proposed CAA
 - d. Any piping that will be included in the CAA
 - e. The location of all existing or proposed FMPs
4. A statement that all leases, unit PAs, or CAs in the proposed CAA are capable of production in paying quantities and documentation to prove the statement.
 - a. "Production in paying quantities" is defined as 1bbl/day of oil or 10 Mcf/day of gas
 - i. A three consecutive day well test can be used to prove production in paying quantities:
Centennial Resource Production, LLC statement: The CAs in the proposed CAA are capable of production in paying quantities.
5. Gas analysis (not required if the operator is applying for a CAA under 3173.14(a)(1)) that includes: **Attached**
 - a. Btu content : **Attached**
 - b. All oil gravities: **Attached**
6. A statement on whether the location of the FMP is on lease or off lease. If the FMP is off lease, the operator must submit: **Centennial Resource Production, LLC statement: Raider Fed Com 701H FMP is off lease.**
 - a. A justification for off lease measurement (OLM): **Centennial Resource Production, LLC statement: We are requesting OLM for our Raider Fed Com 701H because the FMP is off the 502H's CA. The facility is located at the Raider Federal Com 502H. There will be no additional surface disturbance.**
7. A statement on whether any new surface disturbance is included as part of the proposed CAA (proposed FMP, associated facilities, etc.). If new surface disturbance is part of the proposal, a surface disturbance sundry must be submitted with a surface use plan of operations
8. Any additional documentation that would be required under 3174.15 (f—i) relating to surface use or right of way grant applications

If an operator submits a sundry that does not include any of the required information, the sundry will be returned. Due to system limitations, documentation cannot be added after the sundry has been submitted.

Any of the information in this guide is subject to change based on guidance from the BLM National Office, BLM New Mexico State Office, or other factors.

APPLICATION FOR SURFACE POOL/LEASE COMMINGLING

Centennial Resource Production, LLC ("CRP") respectfully requests approval to surface pool/lease commingle oil & gas from the following wells:

GENERAL INFORMATION:

- Federal lease NMNM-126971 covers 240 acres, including the NE/4, W/2 SE/4 of Section 21, T24S-R34E, Lea County, New Mexico and has a base lease royalty of 12.5%.
- The W/2 E/2 from NMNM-126971 and the State of New Mexico lease VB-1179 in the W/2 E/2 of Section 16-24S-34E will be communitized for the Bone Spring formation for the Raider Federal Com #502H. A Fed form of communitization will be submitted to the Bureau of Land Management for approval.
- The W/2 E/2 from NMNM-126971 and the State of New Mexico lease VB-1179 in the W/2 E/2 of Section 16-24S-34E will be communitized for the Wolfcamp formation for the Raider Federal Com #701H. A Fed form of communitization will be submitted to the Bureau of Land Management for approval.
- The central tank battery to service the subject wells is located on Lot P of Section 21-24S-34E on fee surface.
- Federal ownership in the two overlapping spacing units is identical.
- Enclosed herewith is a map that displays the leases, the location of the subject wells, and the CTB, and the serial register page for NMNM-126971.

Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	Oil Meter	Theoretical % of Production	Allocated Well Production	Available Sales	Theoretical % Available for Sale	Allocated Sales	Beginning Inventory	Ending Inventory
Raider Fed Com 502H	126.73	0.5589	127.848	428.498	0.727834	247.4637	300.65	149.52
Raider Fed Com 701H	100.00	0.4411	100.882	160.232	0.272166	92.53633	59.35	99.21
Facility Totals	226.73	1.00	229	588.730	1	340	360	248.73

CTB Allocated Production	228.73
CTB Available for Sale	588.73
Pipeline LACT (FMP)	340
Beginning Inventory	360
Ending Inventory	248.73

Oil Meter	Measures volume of oil from the separator on each individual well used as basis for prorating CTB Allocated Production and Ending Tank Inventory to each well
Theoretical % of Production	Theoretical % is calculated by dividing Oil Meter volume for each well into sum of oil meters from the CTB
Allocated Well Production	Volume of CTB Allocated Production to each well, Theoretical % * CTB Allocated Production
Available Sales	Volume of CTB Available for Sale oil allocated to each well, (Allocated Well Production + Beginning Tank Inventory)
Theoretical % Available for Sale	Allocation % of available sales for each well, Available Sales / CTB available for sale
Allocated Sales	Pipeline LACT (FMP) allocated to each well based on theoretical % of available for sale
Beginning Inventory	Inventory from previous accounting period's calculate ending inventories
Ending Inventory	Theoretical % of production multiplied by combined volume from the oil tanks at CTB for each well.

Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	WH Meter ID	Wellhead Meter Readings	Gas Lift Meter ID	Gas Lift Meter Readings	Net Well Production	Hours On	Theoretical %	CTB FC Meter (Royalty FMP)	HP Flare	Lease Use	VRU	Allocated Production	Total Net FMP Volumes
Raider Fed Com 502H	XXXXXXXX	614.44	XXXXXXXX	486.00	128.440	24	0.331	306.65	3.31	0.50	5.59	316.054201	
Raider Fed Com 701H	XXXXXXXX	259.12	XXXXXXXX	0.00	259.120	24	0.669	618.65	6.69	0.50	4.41	630.245799	
Facility Totals		873.56		486.00	387.560	48	1.000	925.30	10.00	1.00	10.00	946.3	935.30

CTB Meter Name	Meter ID	Meter Readings
FC Meter (FMP)	XXXXXXXX	925.3
BB Meter (FMP)	XXXXXXXX	0
HP Flare Meter	XXXXXXXX	10
VRU	XXXXXXXX	10
Lease Use Equipment	XXXXXXXX	1.0
GL Compressor	XXXXXXXX	486.00
Allocated Production		946.3
Total Net FMP Volumes		935.3

WH Meter ID	Unique number assigned to each meter used in measurement of gas from CTB
Wellhead Meter Readings	Measure the gas from the seapartor on each individual well
Gas Lift Meter ID	Unique number assigned to each meter used in measurement of gas from CTB
Gas Lift Meter Readings	Measures the volume of gas that was injected into the well for gas lift
Net Well Production	Formula to calculate the volume of native gas the well produced (WH-GL)
Hours On	Number of hours well is producing, used in the allocation of Lease Use volume
Theoretical %	Allocation % calculated by Net Well Production for each well/total Net Well Production for CTB
CTB FC Meter (Royalty FMP)	Facility check meter, term used for meter that measures the volume of gas that leaves the CTB, considered the FMP of the CTB
HP Flare	Measures the high pressure flare volumes from CTB
Lease Use	Volume of gas used by the equipment on the CTB allocated to the wells by Lease Use volume/total hours produced by all wells on CTB * each well's Hours On
VRU	Measures the gas from the oil tanks, allocation based on allocated oil production for each well, VRU meter is an FMP, volume is part of royalty
Allocated Production	Total production from CTB calculated by Net CTB gas + HP Flare + Lease Use + VRU
Total Net FMP Volumes	Total volume sold by CTB calculated by Net CTB Gas + VRU

Allocation Methodology Used to Determine Allocated Production and Sales to Each Well

Well Name	Water Meter	Theoretical % of Production	Allocated Well Production	Available to Transfer	Theoretical % Available for Sale	Allocated Water Transfers	Beginning Inventory	Ending Inventory
Raider Fed Com 502H	216.00	0.1776	216.00	222.50	0.1805	215.10	6.50	4.32
Raider Fed Com 701H	1,000.00	0.8224	1,000.00	1,010.20	0.8195	976.58	10.20	20.00
Facility Totals:	1,216.00	1.0000	1,216.00	1,232.70	1.0000	1,191.68	16.70	24.32

CTB Allocated Production	1,199.30
CTB Available for Transfer	1,182.60
Water Transfer Meter	1,191.68
Beginning Tank Inventory	16.70
Ending Tank Inventory	24.32

Water Meter	Measures volume of water from the separator on each individual well used as basis for prorating CTB Allocated Production and Ending Tank Inventory to each well
Theoretical % of Production	Theoretical % is calculated by dividing Water Meter volume for each well into sum of water meters from CTB
Allocated Well Production	Volume of CTB Allocated Production to each well, Theoretical % * CTB Allocated Production
Available to Transfer	Volume of CTB Available for Transfer, water allocated to each well (Allocated Well Production + Beginning Inventory)
Theoretical % Available for Sale	Allocation % of available transfer for each well, Available to Transfer / CTB Available for Transfer
Allocated Water Transfers	Water Transfer Meter allocated to each well based on theoretical % of available for transfer
Beginning Inventory	Inventory from previous accounting period's calculate ending inventories
Ending Inventory	Theoretical % of production multiplied by combined volume from the oil tanks at CTB for each well.

Page 10 of 31

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46300		² Pool Code 96434		³ Pool Name Red Hills; Bone Spring, North	
⁴ Property Code 318010		⁵ Property Name RAIDER FEDERAL COM			⁶ Well Number #502H
⁷ OGRID No. 372165		⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			⁹ Elevation 3497.5'

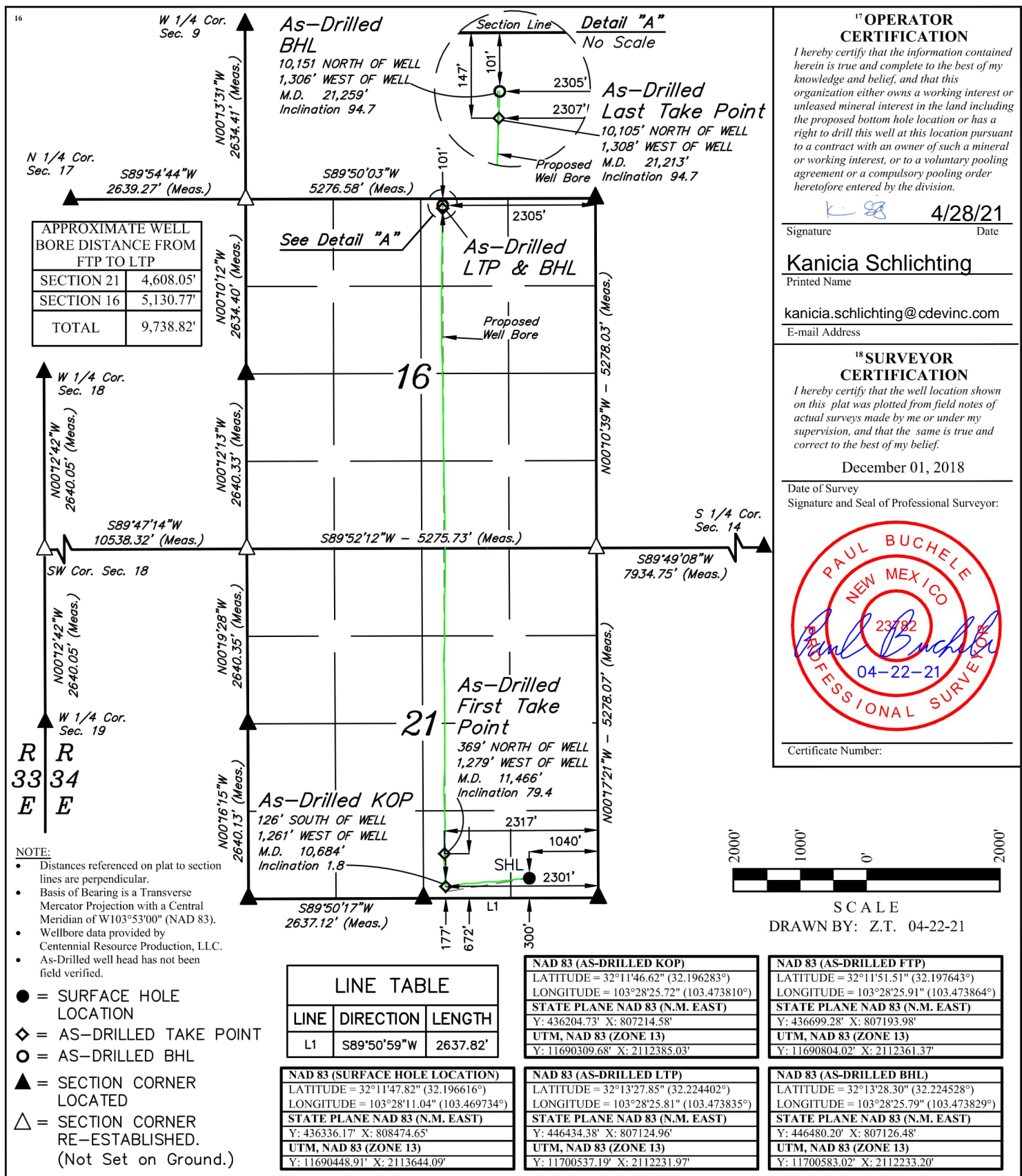
¹⁰Surface Location

UL or lot no. P	Section 21	Township 24S	Range 34E	Lot Idn	Feet from the 300	North/South line SOUTH	Feet from the 1040	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 16	Township 24S	Range 34E	Lot Idn	Feet from the 101	North/South line NORTH	Feet from the 2305	East/West line EAST	County LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation 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.



Page 11 of 31

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Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46427	² Pool Code 2220	³ Pool Name Antelope Ridge; WC
⁴ Property Code 318010	⁵ Property Name RAIDER FEDERAL COM	⁶ Well Number #701H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3498.4'

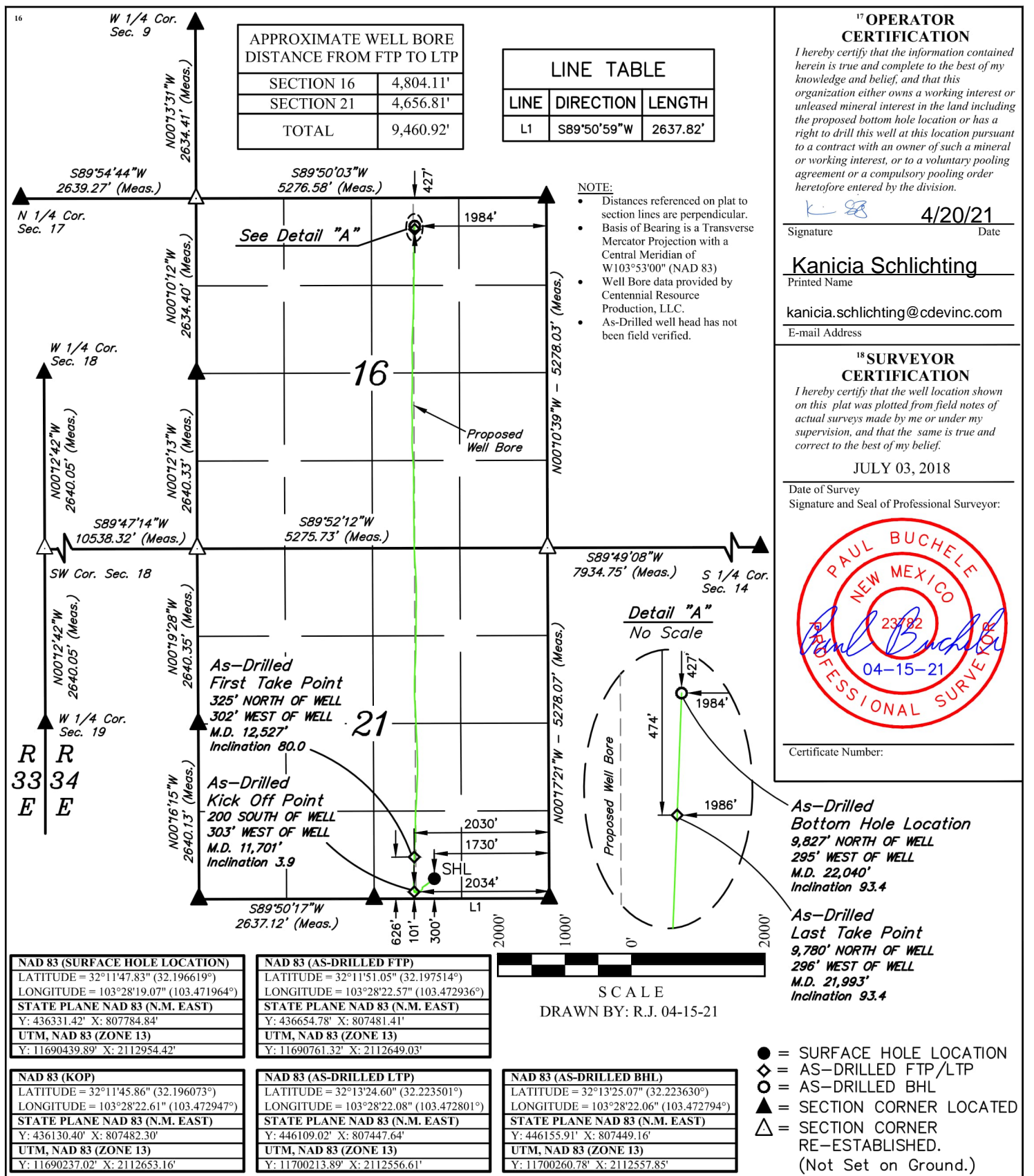
¹⁰Surface Location

UL or lot no. O	Section 21	Township 24S	Range 34E	Lot Idn	Feet from the 300	North/South line SOUTH	Feet from the 1730	East/West line EAST	County LEA
--------------------	---------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

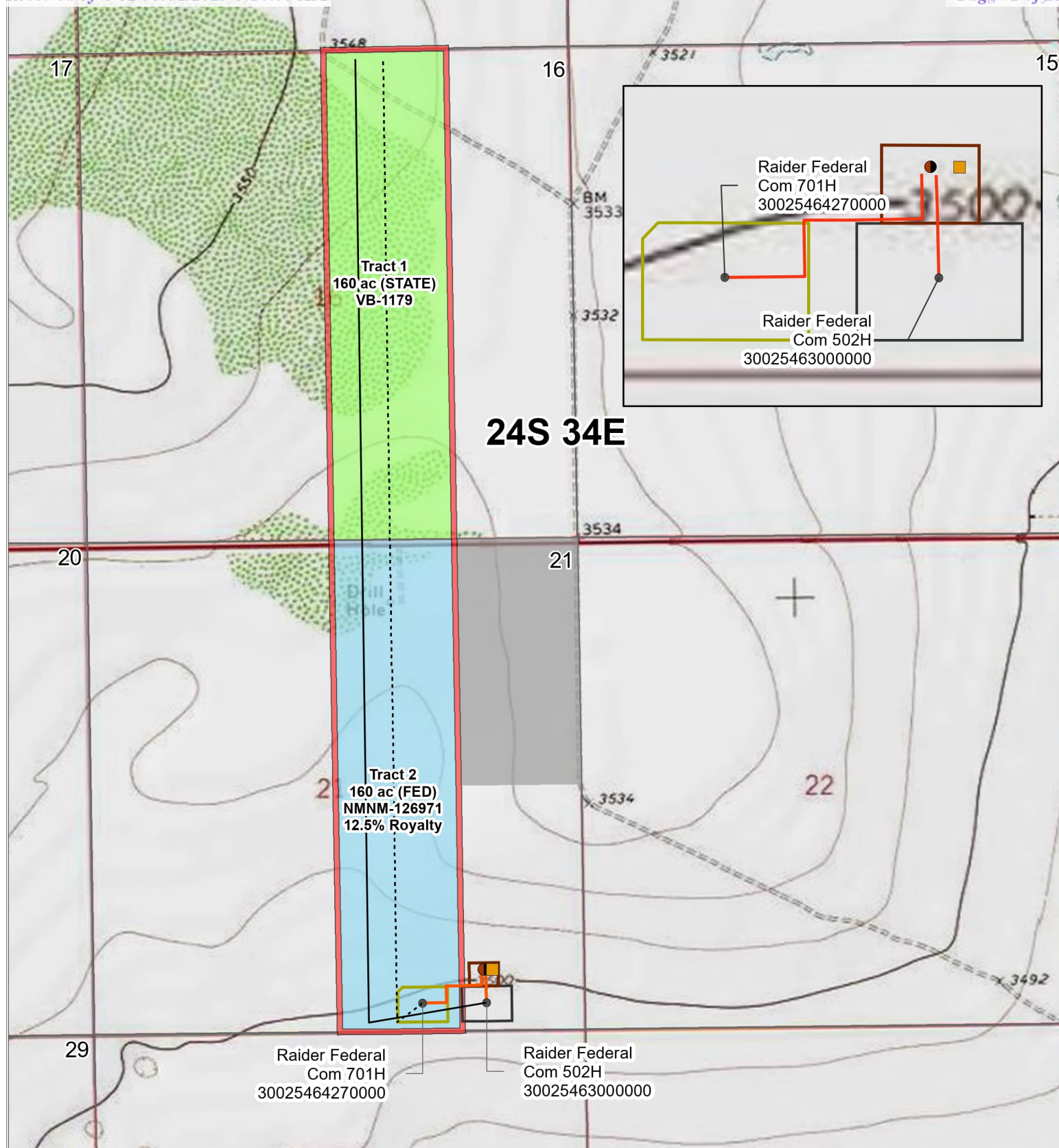
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 16	Township 24S	Range 34E	Lot Idn	Feet from the 427	North/South line NORTH	Feet from the 1984	East/West line EAST	County LEA
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation 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.

Received by *OCD*: 9/28/2021 6:25:40 PM

Released to Imaging: 4/15/2022 12:22:25 PM



Raider Fed Com 502H / 701H Commingle Map

A: thomas.douglass

D: 3/4/2021

0 320 640 1,280
Feet





Serial Register Page

Feb 11, 2021

01 12-22-1987;101STAT1330;30USC181 ET SE

Case Type: O&g lse comp pd -1987

Serial Number: NMNM 126971

Commodity: Oil & gas

Acres: 240.000

Disposition: Authorized

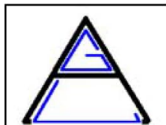
Lessee

<u>Owner Name</u>	<u>Street</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>Net Acres</u>	<u>%Int</u>
CENTENNIAL RESOURCES PRODUCTION LLC	1001 17TH ST STE 1800	DENVER	CO	80202-2058	240.000	100.00

Meridian:	New Mex	State:	NM	County:	Lea
Township:	24 S	Range:	34 E	Admin Agency	
Section:	21	NE,W2SE;		BUREAU OF LAND MGMT	

<u>Code</u>	<u>Action</u>	<u>Date</u>	<u>Remarks</u>
387	Case established	7/19/2011	201107010;
143	Bonus bid payment recd	7/20/2011	\$480.00;
191	Sale held	7/20/2011	
267	Bid received	7/20/2011	\$816000.00;
143	Bonus bid payment recd	8/2/2011	\$815520.00;
237	Lease issued	8/18/2011	
974	Automated record verif	8/18/2011	MV
496	Fund code	9/1/2011	05;145003
530	Rlty rate - 12 1/2%	9/1/2011	
868	Effective date	9/1/2011	
140	Asgn filed	11/7/2011	MILES RON/GMT EXPLO;1
139	Asgn approved	12/22/2011	EFF 12/01/11;
974	Automated record verif	12/22/2011	MJD
899	Trf of orr filed	4/7/2015	1
140	Asgn filed	7/13/2017	GMT EXPLO/CENTENNIA;1
139	Asgn approved	10/18/2017	EFF 8/1/2017
974	Automated record verif	10/18/2017	KM
246	Lease committed to ca	9/17/2018	NMNM139580;
650	Held by prod - actual	11/8/2018	/1/
658	Memo of 1st prod-actual	11/8/2018	/1/NMNM139580;#101H

<u>Code</u>	<u>Action</u>	<u>Date</u>	<u>Remarks</u>
643	Production determination	4/5/2019	/1/
<hr/>			
<u>Remarks</u>			
STIPULATIONS ATTACHED TO LEASE:			
NM-11-LN SPECIAL CULTURAL RESOURCE			
SENM-S-16 RAPTOR NESTS AND HERONRIES			
SENM-S-22 PRAIRIE CHICKENS			
RENTAL PAID 09/01/2011			
RENTAL PAID PER ONRR 9/1/2017			

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988
 Monahans, Texas 79756
 (432) 943-8844 (FAX) 943-8855

GAS ANALYSIS REPORT

Analysis No.: 411044
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>	
Nitrogen	2.3496	0.000	0.023		
Methane	74.1056	746.124	0.410		
CO2	2.7692	0.000	0.042		
Ethane	11.2656	198.743	0.117	3.007	
H2S	0.0001	0.000	0.000		
Propane	5.7297	143.714	0.087	1.576	
Iso-Butane	0.7147	23.169	0.014	0.233	
Butane	1.5848	51.539	0.032	0.499	
Iso-Pentane	0.3976	15.858	0.010	0.145	
Pentane	0.3791	15.149	0.009	0.137	
Hexanes C6+	0.7040	35.997	0.023	0.307	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1230.292	0.768	5.904	

Producer: Centennial
Well / Sta. Name: Raider 502H FedCom
Sta. No.: 24370
Formation:
Field: New Mexico
County:
API Number: 3002546300

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 05/06/21
 Date to Lab: 05/06/21
 Date Analyzed: 05/07/21
 Effective Date:

Sample Press. (PSIG): 112
 Line Press. (PSIG): 112
 Sample Temp. (F): 101
 Fl. Gas Temp. (F): 101
 Amb. Temp. (F): 60

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-220

Field H2O (#/mm):**Field H2S (PPM):** 0.5

Field H2S (Grains): 0.03

Pressure Base: 14.65**Temp. Base:** 60

Z Factor (Dry): 0.9962324

Z Factor (Act.): 0.9962324

Dry BTU w/ H2S: 1234.95

Sat BTU w/ H2S: 1213.81

As Del. BTU w/ H2S: 1234.95

Dry BTU W/O H2S (Real): 1234.95**Sat. BTU W/O H2S (Real):** 1213.81**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1234.95*BTU Calc: Dry***Sp. Gravity (Real):** 0.7702

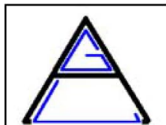
Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.904**GPM Propane+ (Real):** 2.897**GPM IC5+ (Real):** 0.589

GPA 2145 / 2172

Fld. Remarks: FLOW RATE 2173.14 / INITIAL FLOW**Lab Remarks:**

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988
 Monahans, Texas 79756
 (432) 943-8844 (FAX) 943-8855

GAS ANALYSIS REPORT

Analysis No.: 311476
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>	
Nitrogen	1.4247	0.000	0.014		Producer: Centennial
Methane	76.5041	770.273	0.424		Well / Sta. Name: Raider 701H FedCom
CO2	0.1365	0.000	0.002		Sta. No.: 24869
Ethane	12.5324	221.092	0.130	3.345	Formation:
H2S	0.0000	0.000	0.000		Field: New Mexico
Propane	5.7867	145.143	0.088	1.591	County:
Iso-Butane	0.6308	20.449	0.013	0.206	API Number: 3002546427
Butane	1.6584	53.933	0.033	0.522	Spot / Composite: SP
Iso-Pentane	0.3292	13.130	0.008	0.120	Date / Time On:
Pentane	0.3888	15.537	0.010	0.141	Date / Time Off: 05/06/21
Hexanes C6+	0.6084	31.108	0.020	0.265	Date to Lab: 05/06/21
					Date Analyzed: 05/10/21
					Effective Date:
Hydrogen	N/A				Sample Press. (PSIG): 112
Helium	N/A				Line Press. (PSIG): 112
Oxygen	N/A				Sample Temp. (F): 100
CO	N/A				Fl. Gas Temp. (F): 100
					Amb. Temp. (F): 60
Totals	100.0000	1270.665	0.741	6.190	Del. To:
					Sampled By: JL
					Cylinder No.: AGL-704

Field H2O (#/mm):**Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

Pressure Base: 14.65**Temp. Base:** 60

Z Factor (Dry): 0.9962668

Z Factor (Act.): 0.9962668

Dry BTU w/ H2S: 1275.43

Sat BTU w/ H2S: 1253.60

As Del. BTU w/ H2S: 1275.43

Dry BTU W/O H2S (Real): 1275.43**Sat. BTU W/O H2S (Real):** 1253.60**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1275.43*BTU Calc: Dry***Sp. Gravity (Real):** 0.7437

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.190**GPM Propane+ (Real):** 2.845**GPM IC5+ (Real):** 0.526

GPA 2145 / 2172

Fld. Remarks: TAG: INITIAL FLOW**Lab Remarks:** FLOW RATE 2513

Production Summary Report											
API: 30-025-46300											
RAIDER FEDERAL COM #502H											
Printed On: Monday, September 27 2021											
		Production					Injection				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2021	[96434] RED HILLS;BONE SPRING, NORTH	Apr	625	734	3815	1	0	0	0	0	0
2021	[96434] RED HILLS;BONE SPRING, NORTH	May	33004	43738	78984	31	0	0	0	0	0
2021	[96434] RED HILLS;BONE SPRING, NORTH	Jun	23656	30486	52733	30	0	0	0	0	0
2021	[96434] RED HILLS;BONE SPRING, NORTH	Jul	26542	27747	54051	27	0	0	0	0	0

Production Summary Report											
API: 30-025-46427											
RAIDER FEDERAL COM #701H											
Printed On: Monday, September 27 2021											
		Production					Injection				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Apr	13456	25720	62888	11	0	0	0	0	0
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	May	37643	55102	69421	31	0	0	0	0	0
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Jun	26734	37754	43959	30	0	0	0	0	0
2021	[2220] ANTELOPE RIDGE;WOLFCAMP	Jul	17092	36469	27882	31	0	0	0	0	0

**LEGAL NOTICE
September 16, 2021**

Centennial Resource Production, LLC is applying to surface and pool commingle two wells to a central tank battery in Lea County, New Mexico. The central tank battery will be located at the Raider Federal Com 502H well pad. The two wells, details and locations are the following:

Raider Fed Com 502H located in the southeast quarter of section 21, T24S, R34E, Unit P, 300 FSL & 1040 FEL, Red Hills; Bone Spring, North.

Raider Fed Com 701H located in the southeast quarter of section 21, T24S, R34E, Unit O, 300 FSL & 1730 FEL, Antelope Ridge; WC.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, within 20 days. Additional information can be obtained by contacting Sarah Ferreyros, Centennial Resource Production, LLC, 1001 17th Street, Suite 1800, Denver, CO 80202. Phone number is 720-499-1454.
#36862



September 28, 2021

GMT New Mexico Royalty Company, LLC
1560 Broadway, suite 2000
Denver, CO 80202

Certified Mail Article Number: 7020 0640 0000 9808 8589

Re: Notice of Surface and Pool Commingle Application for the following wells:

Raider Fed Com 502H	Raider Fed Com 701H
API# 30-025-46300	API# 30-025-46427
Sec 21, T24S, R34E, Unit P	Sec 21, T24S, R34E, Unit O
300' FSL & 1040' FEL	300' FSL & 1730' FEL
Red Hills; Bone Spring	Antelope Ridge; Wolfcamp
Lea County, New Mexico	Lea County, New Mexico

To Whom It May Concern,

This letter will serve as notice that Centennial Resource Production, LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for Surface/Pool Commingle. Please see attached application.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3200.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Schlichting".

Kanicia Schlichting
Sr. Regulatory Analyst



September 28, 2021

New Mexico State Land Office
310 Old Santa Fe Trail
Santa FE, NM 87501

Certified Mail Article Number: 7020 0640 0000 9808 8596

Re: Notice of Surface and Pool Commingle Application for the following wells:

Raider Fed Com 502H	Raider Fed Com 701H
API# 30-025-46300	API# 30-025-46427
Sec 21, T24S, R34E, Unit P	Sec 21, T24S, R34E, Unit O
300' FSL & 1040' FEL	300' FSL & 1730' FEL
Red Hills; Bone Spring	Antelope Ridge; Wolfcamp
Lea County, New Mexico	Lea County, New Mexico

To Whom It May Concern,

This letter will serve as notice that Centennial Resource Production, LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for Surface/Pool Commingle. Please see attached application.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3200.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Schlichting".

Kanicia Schlichting
Sr. Regulatory Analyst

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
RAIDER FEDERAL	701H	3002546427	NMNM126971	NMNM126971	CENTENNIAL
RAIDER FEDERAL	502H	3002546300	NMNM 126971	NMNM 126971	CENTENNIAL

Notice of Intent

Sundry ID: 2658448

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/23/2022

Date proposed operation will begin: 04/30/2021

Type of Action: Commingling (Surface)

Time Sundry Submitted: 09:35

Procedure Description: Centennial Resource Production, LLC requests to surface and pool commingling the Raider Fed Com 502H and 701H wells.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Raider_Fed_Com_502H_701H_Surface_Commingling_App_Final_20220223093429.pdf

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: KATIE BIERSMITH

Signed on: FEB 23, 2022 09:34 AM

Name: CENTENNIAL RESOURCE PRODUCTION LLC

Title: Regulatory Analyst

Street Address: 1001 17th Street, Suite 1800

City: Denver**State:** CO

Phone: (720) 499-1522

Email address: Katie.Biersmith@cdevinc.com

Field Representative

Representative Name:

Street Address:

City:**State:****Zip:**

Phone:

Email address:

From: [Engineer, OCD, EMNRD](#)
To: [Katie Biersmith](#)
Cc: [McClure, Dean, EMNRD](#); [Kautz, Paul, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); lisa@rwbyram.com; [Glover, James](#); [Paradis, Kyle O](#); [Walls, Christopher](#); [Dawson, Scott](#)
Subject: Approved Administrative Order PLC-810
Date: Friday, April 15, 2022 10:51:01 AM
Attachments: [PLC810 Order.pdf](#)

NMOCD has issued Administrative Order PLC-810 which authorizes Centennial Resource Production, LLC (372165) to surface commingle or off-lease measure, as applicable, the following wells:

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-46300	Raider Federal Com #502H	W/2 E/2	16-24S-34E	96434
		W/2 E/2	21-24S-34E	
30-025-46427	Raider Federal Com #701H	W/2 E/2	16-24S-34E	2220
		W/2 E/2	21-24S-34E	

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: [Katie Biersmith](#)
To: [McClure, Dean, EMNRD](#)
Subject: [EXTERNAL] RE: -EXTERNAL- surface commingling application PLC-810
Date: Wednesday, April 13, 2022 11:46:24 AM
Attachments: [SUB \(resubmit print rpt\) BLM Commingle App Raider Fed Com 502H_701H.pdf](#)
[Raider CTB 1 Flow Diagram PDF.pdf](#)

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

Good afternoon,

Please find the BLM sundry submittal confirmation attached, along with the facility diagram.

GMT was noticed since they have an ORRI there but there are no others- both the Raider 502H and 701H are 100% Centennial working interest.

Thank you!

Katie Biersmith
Sr. Regulatory Analyst
O: (720) 499-1522
C: (707) 391-3334

From: McClure, Dean, EMNRD <Dean.McClure@state.nm.us>
Sent: Thursday, April 7, 2022 1:37 PM
To: Katie Biersmith <Katie.Biersmith@cdevinc.com>
Subject: -EXTERNAL- surface commingling application PLC-810

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

Ms. Biersmith,

I am reviewing surface commingling application PLC-810 which involves a commingling project that includes the Raider Federal Com 502H Battery and is operated by Centennial Resource Production, LLC (372165).

Please confirm that the BLM has received notification of this application. A print off of the sundry submitted to the BLM will be sufficient.

Please submit a facility diagram.

It appears that only 1 person was notified of this application, please confirm that there are no other working, royalty or overriding royalty interest owners.

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 SURFACE COMMINGLING
SUBMITTED BY CENTENNIAL RESOURCE
PRODUCTION, LLC**

ORDER NO. PLC-810

ORDER

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

FINDINGS OF FACT

1. Centennial Resource Production, LLC (“Applicant”) submitted a complete application to surface commingle the oil and gas production from the pools, leases, and wells identified in Exhibit A (“Application”).
2. Applicant proposed a method to allocate the oil and gas production to the pools, leases, and wells to be commingled.
3. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that the ownership in the pools, leases, and wells to be commingled is identical as defined in 19.15.12.7.B. NMAC.
4. To the extent that ownership is diverse, Applicant provided notice of the Application to all persons owning an interest in the oil and gas production to be commingled, including the owners of royalty and overriding royalty interests, regardless of whether they have a right or option to take their interests in kind, and those persons either submitted a written waiver or did not file an objection to the Application.
5. Applicant provided notice of the Application to the Bureau of Land Management (“BLM”) or New Mexico State Land Office (“NMSLO”), as applicable.
6. Applicant certified the commingling of oil and gas production from the pools, leases, and wells will not in reasonable probability reduce the value of the oil and gas production to less than if it had remained segregated.
7. Applicant submitted or intends to submit one or more proposed communitization agreement(s) (“Proposed Agreement(s)”) to the BLM or NMSLO, as applicable, identifying the acreage of each lease to be consolidated into a single pooled area (“Pooled Area”), as described in Exhibit B.

CONCLUSIONS OF LAW

8. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, §§ 70-2-6, 70-2-11, 70-2-12, 70-2-16, and 70-2-17, 19.15.12. NMAC, and 19.15.23. NMAC.

9. Applicant satisfied the notice requirements for the Application in accordance with 19.15.12.10.A.(2) NMAC, 19.15.12.10.C.(4)(c) NMAC, and 19.15.12.10.C.(4)(e) NMAC, as applicable.
10. Applicant satisfied the notice requirements for the Application in accordance with 19.15.23.9.A.(5) NMAC and 19.15.23.9.A.(6) NMAC, as applicable.
11. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.10.B.(1) NMAC or 19.15.12.10.C.(1) NMAC, as applicable.
12. Commingling of oil and gas production from state, federal, or tribal leases shall not commence until approved by the BLM or NMSLO, as applicable, in accordance with 19.15.12.10.B.(3) NMAC and 19.15.12.10.C.(4)(h) 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 surface commingle oil and gas production from the pools, leases, and wells identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from the pools, leases, and wells identified in Exhibit A at a central tank battery described in Exhibit A.

2. For each Pooled Area described in Exhibit B, Applicant shall submit a Proposed Agreement to the BLM or NMSLO, as applicable, prior to commencing oil and gas production. If Applicant fails to submit the Proposed Agreement, this Order shall terminate on the following day.

No later than sixty (60) days after the BLM or NMSLO approves or denies a Proposed Agreement, Applicant shall submit Form C-103 to OCD with a copy of the decision and a description of the approved lands, as applicable. If Applicant withdraws or the BLM or NMSLO denies a Proposed Agreement, this Order shall terminate on the date of such action, and Applicant shall cease commingling the production from the Pooled Area. If the BLM or NMSLO approves but modifies the Proposed Agreement(s), Applicant shall comply with the approved Agreement(s), and no later than sixty (60) days after such decision, Applicant shall submit a new surface commingle application to OCD to conform this Order with the approved Agreement(s). If OCD denies the new surface commingle application, this Order shall terminate on the date of such action.

Applicant shall allocate the oil and gas production to each lease within a Pooled Area in proportion to the acreage that each lease bears to the entire acreage of the Pooled Area described in Exhibit B until the Proposed Agreement which includes the Pooled Area is approved. After the Proposed Agreement is approved, the oil and gas production from the Pooled Area shall be allocated as required by the BLM's or NMSLO's, as applicable, approval of the Agreement, including any production that had been allocated previously in accordance with this Order.

3. The oil and gas production for each well identified in Exhibit A shall be separated and metered prior to commingling.
4. Applicant shall measure and market the commingled oil at a central tank battery described in Exhibit A in accordance with this Order and 19.15.18.15. NMAC or 19.15.23.8. NMAC.
5. Applicant shall measure and market the commingled gas at a well pad, central delivery point, central tank battery, or gas title transfer meter described in Exhibit A in accordance with this Order and 19.15.19.9. NMAC, provided however that if the gas is vented or flared, and regardless of the reason or authorization pursuant to 19.15.28.8.B. NMAC for such venting or flaring, Applicant shall measure or estimate the gas in accordance with 19.15.28.8.E. NMAC.
6. Applicant shall calibrate the meters used to measure or allocate oil and gas production in accordance with 19.15.12.10.C.(2) NMAC.
7. If the commingling of oil and gas production from any pool, lease, or well reduces the value of the commingled 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 surface commingling application to OCD to amend this Order to remove the pool, lease, or well whose oil and gas production caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
8. Applicant shall not commence commingling oil or gas production from state, federal, or tribal leases until approved by the BLM or NMSLO, as applicable.
9. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
10. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**



**ADRIENNE E. SANDOVAL
DIRECTOR**

DATE: 4/15/2022

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

Order: **PLC-810**

Operator: **Centennial Resource Production, LLC (372165)**

Central Tank Battery: **Raider Federal Com 502H Battery**

Central Tank Battery Location: **UL P, Section 21, Township 24 South, Range 34 East**

Gas Title Transfer Meter Location: **UL P, Section 21, Township 24 South, Range 34 East**

Pools

Pool Name	Pool Code
ANTELOPE RIDGE; WOLFCAMP	2220
RED HILLS; BONE SPRING, NORTH	96434

Leases as defined in 19.15.12.7(C) NMAC

Lease	UL or Q/Q	S-T-R
VB 11790003	W/2 E/2	16-24S-34E
NMNM 126971	W/2 E/2	21-24S-34E

Wells

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-46300	Raider Federal Com #502H	W/2 E/2	16-24S-34E	96434
		W/2 E/2	21-24S-34E	
30-025-46427	Raider Federal Com #701H	W/2 E/2	16-24S-34E	2220
		W/2 E/2	21-24S-34E	

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit B

Order: PLC-810
Operator: Centennial Resource Production, LLC (372165)

Pooled Areas

Pooled Area	UL or Q/Q	S-T-R	Acres	Pooled Area ID
CA Wolfcamp NMNM 143298	W/2 E/2	16-24S-34E	320	A
	W/2 E/2	21-24S-34E		
CA Bone Spring NMNM 143296	W/2 E/2	16-24S-34E	320	B
	W/2 E/2	21-24S-34E		

Leases Comprising Pooled Areas

Lease	UL or Q/Q	S-T-R	Acres	Pooled Area ID
VB 11790003	W/2 E/2	16-24S-34E	160	A
NMNM 126971	W/2 E/2	21-24S-34E	160	A
VB 11790003	W/2 E/2	16-24S-34E	160	B
NMNM 126971	W/2 E/2	21-24S-34E	160	B

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 52541

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 52541
	Action Type: [C-107] Surface Commingle or Off-Lease (C-107B)

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.	4/15/2022

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 138285

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 138285
	Action Type: [C-107] Surface Commingle or Off-Lease (C-107B)

CONDITIONS

Created By	Condition	Condition Date
sarah.clelland	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 email us at OCD.Engineer@emnrd.nm.gov .	11/10/2025