Form 3160-3 (June 2015)

UNITED STATES

OCD - HOBBS 11/27/2018

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

1b. Type of Well: Oil Well Gas Well Oth	GEMENT ILL OR REENT ENTER er	CEIVED TER	5. Lease Serial No. NMNM117125 6. If Indian, Allotee or T 7. If Unit or CA Agreem 8. Lease Name and Well SHEBA FEDERAL-CC 711H	ent, Name and No.
2. Name of Operator CENTENNIAL RESOURCE PRODUCTION LLC [37216]	5]		9 API-Well 30-025-	45374
3a. Address 3	b. Phone No. (includ 720)499-1400	e area code)	10 Field and Pool, or ExANTELOPE RIDGE; V	epioratory [2220]
4. Location of Well (Report location clearly and in accordance will At surface LOT O / 300 FSL / 1445 FEL / LAT 32.196608 At proposed prod. zone LOT A / 330 FNL / 990 FEL / LAT	5 / LONG -103.453	954	11. Sec., T. R. M. of Blk SEC 22-/ T24S./ R34E	and Survey or Area
14. Distance in miles and direction from nearest town or post office 19.5 miles	;*		12. County or Parish LEA	13. State NM
15. Distance from proposed* location to nearest 121 feet	16. No of acres in lea	53.33	cing. Unit dedicated to this v	
to nearest well drilling completed	19. Proposed Depth 2373 feet / 16745		M/BIA Bond No. in file	,
	22 Approximate date 07/15/2018	work will start*	23. Estimated duration 30 days	
The following, completed in accordance with the requirements of C (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the 4. Bond Item 5. Open	to cover the operation to cover the operation to cover the coverage of the cov	e Hydraulic Fracturing rule pons unless covered by an exi	sting bond on file (see
25. Signature (Electronic Submission)	Name (Printed/		Dat 03/	e 112/2018
Sr. Regulatory Analyst Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Office CARLSBAD	Ph: (575)234-595		02/2018
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mal of the United States any false, fictitious or fraudulent statements or				lepartment or agency
GCP Rec 11/27/2018 (Continued on page 2)	BD WITH C	NDITIONS	*(Instru	2018





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



APD ID: 10400027745 Submission Date: 03/12/2018

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC Federal/Indian APD: FED

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Application

Section 1 - General

10400027745

Tie to previous NOS?

Submission Date: 03/12/2018

BLM Office: CARLSBAD

APD ID:

User: Melissa Luke

Title: Sr. Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM117125

Lease Acres: 400

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: CENTENNIAL RESOURCE PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: CENTENNIAL RESOURCE PRODUCTION LLC

Operator Address: 1001 17th Street, Suite 1800

Zip: 80202

Operator PO Box:

Operator City: Denver

State: CO

Operator Phone: (720)499-1400

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Approval Date: 11/02/2018

Page 1 of 26

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: ANTELOPE RIDGE; Pool Name:

WOLFCAMP

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1

Well Class: HORIZONTAL

SHEBA

Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:**

Well sub-Type: EVALUATION

Describe sub-type:

Distance to town: 19.5 Miles

Distance to nearest well: 30 FT

Distance to lease line: 121 FT

Reservoir well spacing assigned acres Measurement: 53.33 Acres

Well plat:

Submitted_SHEBA_FEDERAL_COM__711H__Application_Well_Plat_03.12.18_20180315141702.pdf

Well work start Date: 07/15/2016

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 23782

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	300	FSL	144 5	FEL	248	34E	22	Lot O	32.19660 5	- 103.4539 54	LEA	NEW MEXI CO	' ' - ' '	F	FEE	4	0	0
KOP Leg #1	300	FSL	144 5	FEL	24S	34E	22	Lot O	32.19660 5	- 103.4539 54	LEA	NEW MEXI CO		F	FEE	_ 360 6	118	118 00

Approval Date: 11/02/2018

Page 2 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	350	FSL	990	FEL	248	34E	22	Lot P	32.19674 2	- 103.4524 83	LEA	1	NEW MEXI CO	F	NMNM 117125	1978	123 ° 01	122 25 †
EXIT Leg #1	330	FNL	990	FEL	24S	34E	22	Lot A	32.20937 4	- 103.4524 78	LEA	NEW MEXI CO	112-11	F	NMNM 117125		167 43	123 73
BHL Leg #1	330	FNL	990	FEL	248	34E	22	Lot A	32.20937 4	- 103.4524 78	LEA	NEW MEXI CO		F	NMNM 117125			123 73

Drilling Plan

Section 1 - Geologic Formations

Formation	The second second		True Vertical	Measured	The state of the state of the state of		Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	-1989	1160	1160	SANDSTONE	NONE	No
2	BELL CANYON	-7497	5508	5508	SANDSTONE	NONE	No
3	AVALON SAND	-11375	9386	9386	SHALE	OIL	No
4	FIRST BONE SPRING SAND	-12387	10398	10398	SANDSTONE	OIL	No
5	BONE SPRING 2ND	-12900	10911	10911	SANDSTONE	OIL	No
6	BONE SPRING 3RD	-13934	11945	12185	SANDSTONE	ÖIL	No
7	WOLFCAMP	-14345	12356	13006	SHALE, SANDSTONE	OIL	Yes

Section 2 - Blowout Prevention

Approval Date: 11/02/2018 Page 3 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Pressure Rating (PSI): 10M Rating Depth: 16745

Equipment: Cameron The BOP and related equipment will meet or exceed the requirements of a 10M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casing head: 13 5/8" 10M x 11" x 10,000 psi Tubing head: 7-1/16" – 10,000 psi B. Minimum Specified Pressure Control Equipment - Annular preventer - One Pipe ram, One blind ram - Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill will shall be at least 2-inch diameter - 3 inch diameter choke line - 2 – 3 inch choke line valves - 2 inch Kill line - 2 chokes with 1 remotely controlled from rig floor (see Figure 2) - 2 – 2 inch kill line valves and a check valve - Upper kelly cock valve with handle available - When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed) - Lower kelly cock valve with handle available - Safety valve(s) and subs to fit all drill string connections in use - Inside BOP or float sub available - Pressure gauge on choke manifold - All BOPE connections subjected to well pressure shall be flanged, welded, or clamped - Fill-up line above the uppermost preventer. C. Auxiliary Equipment - Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2) - Gas Buster will be used below 6,000'. - Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and pressure gauge on choke manifold.

Requesting Variance? YES

Variance request: Centennial is requesting a variance to the 10M annular policy, proposing the use of a 5M annular, rather than a 10M annular. Corresponding Well Control Plan is attached.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. Checked daily as to mechanical operating conditions. The ram type preventer(s) shall be tested to the approved BOP stack working pressure when a test plug is used. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 50% of the approved BOP stack working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. • A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. • If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. • Centennial Resource Development will invite the BLM to witness them. The BOP Configuration, Choke manifold layout, and Accumulator system, will be in compliance with Onshore Order 2 for a 5000/10,000 psi system. A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM supervised BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachment:

Centennial_Resource_Development__Well_Control_Plan_v2_20180301090532.pdf

Manifold_old__Sheba_711H_20180312103753.pdf

BOP Diagram Attachment:

BOP_HP_650_equipment_20180301090256.pdf

Approval Date: 11/02/2018 Page 4 of 26

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	רט - אבר
1	CONDUCT	26	20.0	NEW	API	N	0	120	0	120	3519	3399	120	H-40	ı	OTHER - Weld		;				
2	SURFACE	17.5	13.375	NEW	API	N	0	1300	0	1300	3519	2219	1300	J-55	ı	OTHER - BTC	1.76	4.26	DRY	7.25	DRY	12 4
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	11622	0	11600	3519	-8081	11622	HCP -110		OTHER - TMK UP DQX	1.7	1.68	DRY	2.61	DRY	2.
4	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11622	0	11600	3519	-8081	11622	HCP -110	29.7	LTC	1.4	1.75	DRY	2.23	DRY	2.
5	PRODUCTI ON	6.75	5.0	NEW	API	Y	11670	16745	11670	12373	-8151	-8854	l .	HCP -110		OTHER - TMK UP DQX	1.85	1.74	DRY	41.6 8	DRY	41 8

Casing Attachments

asing Attachments		
Casing ID: 1	String Type:CONDUCTOR	
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Caeina Daeian Assum	ptions and Worksheet(s):	
Casing Design Assum	puons and worksneed(s).	

Approval Date: 11/02/2018

Page 5 of 26

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC Well Name: SHEBA FEDERAL COM Well Number: 711H **Casing Attachments** Casing ID: 2 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CASING_ASSUMPTIONS_WORKSHEET_20180301090842.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CASING_ASSUMPTIONS_WORKSHEET_20180312104421.pdf Casing ID: 4 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:**

3._TMK_UP_DQX_5.5_x_20_P110_HC_20180312104220.pdf

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180301090851.pdf

Approval Date: 11/02/2018 Page 6 of 26

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Casing Attachments

Casing ID: 5

String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

 $3._TMK_UP_DQX_5_x_18_P110_HC_20180312104503.pdf$

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180312104529.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
CONDUCTOR	Lead		0	120	121	1.49	12.9	180.6			Bentonite 4% BWOC, Cellophane #/sx, CaCl2 2% BWOC.

SURFACE	Lead	0	800	635	1.75	13.5	1111	100	Class C Premium	Premium Gel Bentonite 4%, C-45 Econolite 0.25%, Phenoseal 0.25#/sk, CaCl 1%, Defoamer C-41P 0.75%
SURFACE	Tail	800	1300	518	1.34	14.8	695	5 0	Class C Premium	C-45 Econolite 0.10%, CaCl 2.%
INTERMEDIATE	Lead	0	1062	1475	3.2	10.6	4720	100	TXI Lightweight	Salt 0.81#/sk, C-45 Econolite 0.80%, Phenoseal 1.50#/sk, STE 6.0%, Citric Acid 0.20%, C-19 Fluid Loss Add've 0.10%, CSA- 1000 Fluid Loss Add've 0.25%, Kol Seal 6.0#/sk, Defoamer C- 41P 0.75%
INTERMEDIATE	Tail	1062 2	1162 2	349	1.23	14.6	430	50	Class H Premium	CSA-1000 Floss Add've 0.05%

Approval Date: 11/02/2018

Well Name: SHEBA FEDERAL COM

Well Number: 711H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		6622	1162 2	193	3.56	10.6	686	0		Salt 9.17#/sk, C-45 Econolite 0.80%, Phenoseal 2.50#/sk, STE 6.0%, Citric Acid 0.35%, CSA-1000 Fluid Loss Add've 0.28%, Kol Seal 6.0#/sk, C-47B Fluid Loss Add've 0.10%, Defoamer C- 41P 0.75%
PRODUCTION	Tail		1162 2	1674 5	684	1.26	14.2	862	25	Class H Premium	CSA-1000 Floss Add've 0.10%, C47B Fluid Loss Add've 0.30%, Retarder C-20 0.10%, Defoamer C-41P 0.25%
PRODUCTION	Lead		6622	1162 2	193	3.56	10.6	686	0	TXI Lightweight	Salt 9.17#/sk, C-45 Econolite 0.80%, Phenoseal 2.50#/sk, STE 6.0%, Citric Acid 0.35%, CSA-1000 Fluid Loss Add've 0.28%, Kol Seal 6.0#/sk, C-47B Fluid Loss Add've 0.10%, Defoamer C- 41P 0.75%.
PRODUCTION	Tail		1162 2	1674 5	684	1.26	14.2	862	25		CSA-1000 Floss Add've 0.10%, C47B Fluid Loss Add've 0.30%, Retarder C-20 0.10%, Defoamer C-41P 0.25%

Approval Date: 11/02/2018

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control. Surface interval will employ fresh water mud mix. The intermediate hole will utilize a diesel emulsified brine fluid to inhibit salt washout and preventing severe fluid losses. The production hole will employ oil base fluid of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring will be used for drilling fluids, cuttings and all returns; drill fluids, cement, etc.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (İbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1300	OTHER : Fresh Water	9	9.5	:						·
0	1162 2	OTHER : Brine	8.6	9							
0	1674 5	OIL-BASED MUD	11	12.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD (Gamma ray logging) from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

GR

Coring operation description for the well:

n/a

Approval Date: 11/02/2018 Page 9 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7064

Anticipated Surface Pressure: 494/1944-2020 Articipated Surface Pressure: 494/1944-2020

Anticipated Bottom Holer Temperature (F): 470 4.54

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations plan:

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

H_P_650___Sheba_Federal_Com_711H_Plan__1_20180301091443.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Submitted_SHEBA_FEDERAL_COM__711H__Access_Roads_Map_03.12.18_20180312110338.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Will need to improve on existing two track. Road will be constructed to a 20' wide finished surface, using caliche from designated barrow pits.

Existing Road Improvement Attachment:

TYPICAL_ACCESS_CROSS_SECTIONS_20180312110653.pdf

Approval Date: 11/02/2018

Page 10 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Submitted SHEBA FEDERAL COM 711H Access Roads Map 03.12.18 20180312110722.pdf

New road type: COLLECTOR

Length: 8157

Feet

Width (ft.): 32

Max slope (%): 2

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s): New road travel width: 20

New road access erosion control: Please see attached.

New road access plan or profile prepared? YES

New road access plan attachment:

TYPICAL_ACCESS_CROSS_SECTIONS_20180301121942.pdf

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 4

Offsite topsoil source description:

Number of access turnouts:

Onsite topsoil removal process: Equipment will be used to strip 4 inches in depth and stockpile, utilizing berms for run-off

Access other construction information: Raptor nest is pictured in the plats. A biological survey will be conducted two weeks prior to construction activities.

Access turnout map:

Access miscellaneous information: Raptor nest identified in plats

·

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Will be using 16" CMP for the culverts.

Road Drainage Control Structures (DCS) description: Please see attached.

Road Drainage Control Structures (DCS) attachment:

Approval Date: 11/02/2018 Page 11 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

TYPICAL_ACCESS_CROSS_SECTIONS_20180301121953.pdf

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Sheba_Federal_Com_711H_AOR_Map_and_Well_List_03.09.18_20180312110905.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Submitted_SHEBA_FEDERAL_COM_711H___Facility_Layout_03.12.18_20180312111200.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL, SURFACE CASING Water source type: OTHER

Describe type: EOG Jolly Roger Fresh Water Pit: Located in SWNW

Sec. 16. T24S. R34E

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 350000 Source volume (acre-feet): 45.112583

Source volume (gal): 14700000

Approval Date: 11/02/2018 Page 12 of 26

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Water source and transportation map:

Sheba Water_Source_Map_Jolly_Roger_03.09.18_20180312112118.pdf

Water source comments: Temporary surface lines will be used to transport water for drilling and completion operation from the EOG Jolly Roger fresh water pit to the Sheba Pad.

New water well? NO

New	Wate	r Wel	II Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche will be hauled from the existing "Madera Pit" located in SENW, Section 06, T 25S R35E. Pit has been identified for use in the attached exhibit. Any native caliche on the proposed site can be used by "flipping" the location and using all native soils.

Construction Materials source location attachment:

Sheba Caliche_Source_Map_Solomon_Caliche_Pit_03.12.18_20180312121913.pdf

Approval Date: 11/02/2018 Page 13 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 7 - Methods for Handling Waste

Waste type: SEWAGE

Waste content description: Grey water and human waste

Amount of waste: 6500 barrels

Waste disposal frequency: Weekly

Safe containment description: Steel tanks lined with polymer lining

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: STATE

FACILITY

Disposal type description:

Disposal location description: Haul to stat approved disposal facility

Waste type: DRILLING

Waste content description: Drill Fluids

Amount of waste: 1200 barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel tanks lined with polymer lining

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: STATE

FACILITY

Disposal type description:

Disposal location description: State approved disposal facility

Waste type: GARBAGE

Waste content description: Trash/garbage

Amount of waste: 5000 pounds

Waste disposal frequency: Weekly

Safe containment description: Trash Trailer

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: STATE

FACILITY

Disposal type description:

Disposal location description: Haul to state approved facility

Approval Date: 11/02/2018 Page 14 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Submitted_SHEBA_FEDERAL_COM__711H_Location_Layout_03.12.18_20180312113520.pdf

Comments:

Approval Date: 11/02/2018 Page 15 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: SHEBA

Multiple Well Pad Number: 1

Recontouring attachment:

Submitted SHEBA FEDERAL COM 711H Reclamation Plat 03.12.18 20180312114900.pdf

Drainage/Erosion control construction: Drainage and erosion will be constantly monitored to prevent compromising the well site integrity, an to protect the surrounding native topography.

Drainage/Erosion control reclamation: Upon reclamation, well site will be returned to its native contour. Water breaks will be added if needed, to prevent unnatural erosion and loss of vegetation.

Well pad proposed disturbance

(acres): 9.79

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 12.17

Other proposed disturbance (acres): 0

Total proposed disturbance: 27.95

Well pad interim reclamation (acres):

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 1.69

Well pad long term disturbance

(acres): 8.1

Road long term disturbance (acres):

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 12.17

Other long term disturbance (acres): 0

Total long term disturbance: 26.26

Disturbance Comments:

Reconstruction method: Come back in with heavy equipment, remove caliche in the reclamation area, and replace with native topsoil. Reconstruction of pad will occur once all wells on location have been drilled and completed.

Topsoil redistribution: Surface disturbance will be limited to well site surveyed dimensions. Topsoil will be stored along the west edge of the pad site.

Soil treatment: Native caliche will be used in the initial construction of the well pad. Pad will be compacted using fresh water, dust control measures will be implemented as needed.

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Approval Date: 11/02/2018 Page 16 of 26

Operator Name: CENTENNIAL RESOURCE PRODU	JCTION LLC
Well Name: SHEBA FEDERAL COM	Well Number: 711H
Non native seed description:	
Seedling transplant description:	
Will seedlings be transplanted for this project?	
Seedling transplant description attachment:	
Will seed be harvested for use in site reclamation?	NO
Seed harvest description:	
Seed harvest description attachment:	
Seed Management Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:
Seed Summary	Total pounds/Acre:
Seed Type Pounds/Acre	
Seed reclamation attachment:	
Operator Contact/Responsible Offic	ial Contact Info
First Name: Melissa	Last Name: Luke
Phone: (720)499-1482	Email: melissa.luke@cdevinc.com
Seedbed prep: Prepare a 3-5 inch deep seedbed, with	n the top 3-4 inches consisting of topsoil

Seed BMP: Seeding will be done in the proper season, and monitored for the re-establishment of native vegetation.

Seed method: Broadcast

Existing invasive species? NO

Existing invasive species treatment description:

Well Name: SHEBA FEDERAL COM Well Number: 711H

Existing invasive species treatment attachment:

Weed treatment plan description: Spray for noxious weeds and bare ground as needed

Weed treatment plan attachment:

Monitoring plan description: All disturbed areas will be closely monitored for any primary or secondary noxious weeds.

Should any be found, chemical spraying in accordance with state regulations will be implemented.

Monitoring plan attachment:

Success standards: No primary or secondary noxious weeds will be allowed. Vegetation will be returned to its native

standard.

Pit closure description: No open pits will be constructed.

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Approval Date: 11/02/2018 Page 18 of 26

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC Well Name: SHEBA FEDERAL COM Well Number: 711H Fee Owner: Bert Madera Fee Owner Address: 125 Bella Via Circle Ruidoso, NM 88345-9719 Phone: (575)631-4444 Email: Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: SUA with Private Surface Owner **Surface Access Bond BLM or Forest Service: BLM Surface Access Bond number: USFS Surface access bond number:** Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:
BIA Local Office:
BOR Local Office:
COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:
Military Local Office:
USFWS Local Office:
USFS Region:

USFS Forest/Grassland: USFS Ranger District:

Approval Date: 11/02/2018 Page 19 of 26

Well Name: SHEBA FEDERAL COM

Well Number: 711H

Fee Owner: Bert Madera

Fee Owner Address: 125 Bella Via Circle Ruidoso, NM

88345-9719

Email:

Phone: (575)631-4444

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SUA with Private Surface Owner

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Approval Date: 11/02/2018 Page 20 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Fee Owner: Bert Madera

Fee Owner Address: 125 Bella Via Circle Ruidoso, NM

88345-9719 **Email**:

Phone: (575)631-4444

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SUA with Private Surface Owner

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite conducted with Colleen Cepero-Rios on 1/18/2018

Other SUPO Attachment

Submitted_SHEBA_FEDERAL_COM__711H_Addl_Atchmnts_Rig_Layout__Arch_Boundayr__Cross_Section_03.12.18_201 80312115316.pdf

Arch_Survey_Romeo__Juliet__Sheba____Solomon_20180312115334.pdf

PWD

Approval Date: 11/02/2018 Page 21 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Approval Date: 11/02/2018

Page 22 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Approval Date: 11/02/2018 Page 23 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Approval Date: 11/02/2018

Page 24 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Bond Info

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001471

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Melissa Luke Signed on: 03/12/2018

Title: Sr. Regulatory Analyst

Street Address: 1001 17th Street, Suite 1800

City: Denver State: CO Zip: 80202

Phone: (720)499-1482

Email address: Melissa.Luke@cdevinc.com

Approval Date: 11/02/2018 Page 25 of 26

Well Name: SHEBA FEDERAL COM Well Number: 711H

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

Payment Info

Payment

APD Fee Payment Method: PAY.GOV

pay.gov Tracking ID:

268BL20V

Approval Date: 11/02/2018 Page 26 of 26