

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: DRILL REENTER
1b. Type of Well: Oil Well Gas Well Other
1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

[318012]

2. Name of Operator
[372165]

9. API Well No. **30-025-50410**

3a. Address 3b. Phone No. (include area code)

10. Field and Pool, or Exploratory **[96434]**
XXXXXXXXXXXXXXXXXX

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (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 Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature Name (Printed/Typed) Date

Title

Approved by (Signature) Name (Printed/Typed) Date

Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

NGMP Rec 06/29/2022



KZ
08/04/2022

SL

(Continued on page 2)

*(Instructions on page 2)

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		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name JULIET FEDERAL COM			6 Well Number 312H
7 OGRID No.		8 Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			9 Elevation 3465.2'

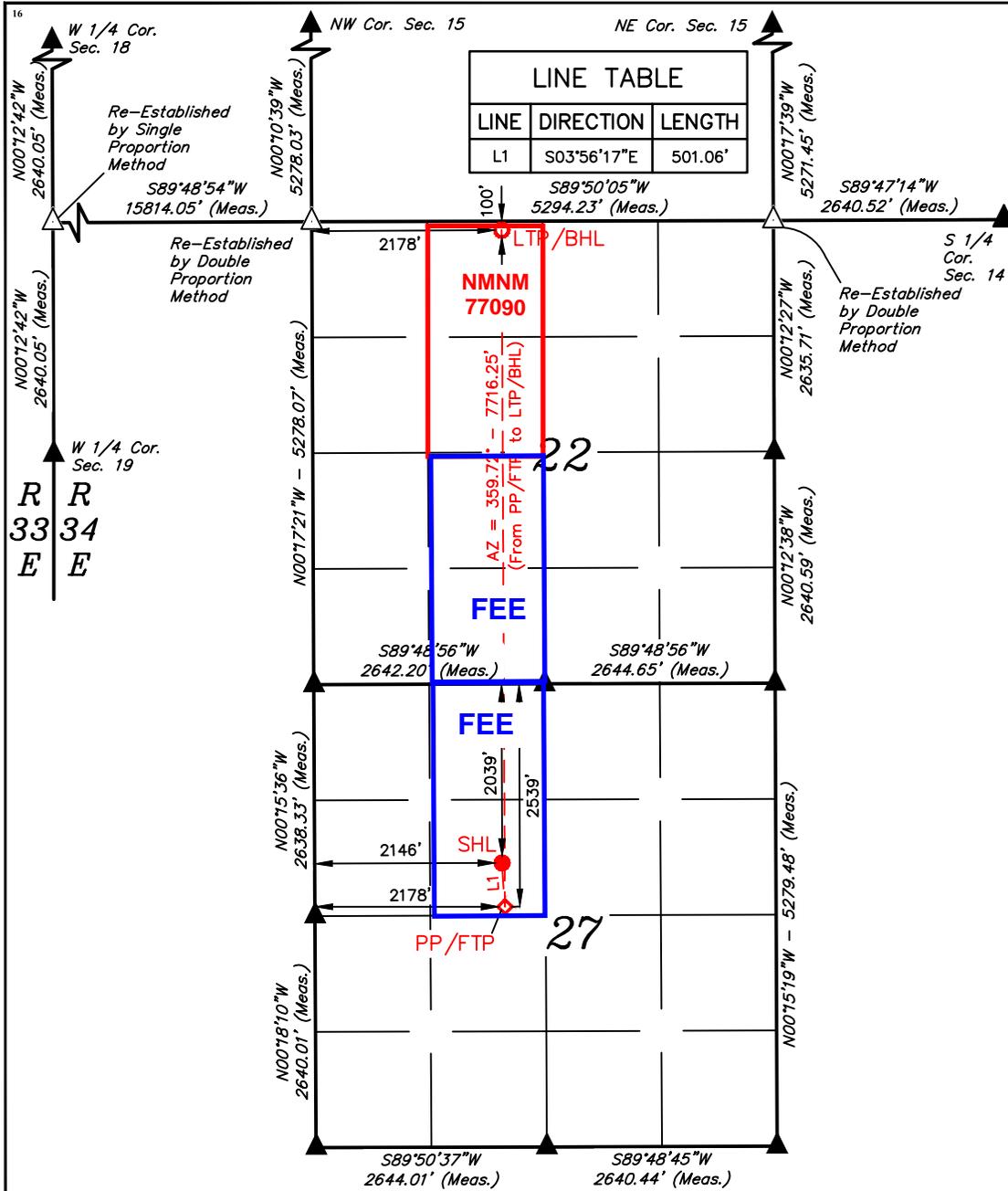
10 Surface Location

UL or lot no. F	Section 27	Township 24S	Range 34E	Lot Idn	Feet from the 2039	North/South line NORTH	Feet from the 2146	East/West line WEST	County LEA
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11 Bottom Hole Location If Different From Surface

UL or lot no. C	Section 22	Township 24S	Range 34E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 2178	East/West line WEST	County LEA
12 Dedicated Acres 240		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.



17 OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

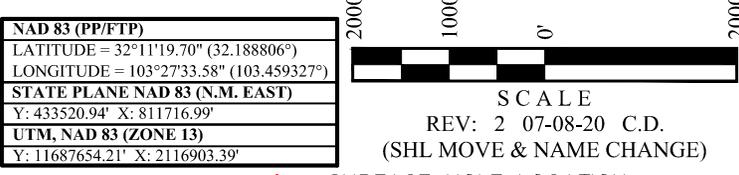
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

July 02, 2020

Date of Survey _____
Signature and Seal of Professional Surveyor: _____

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°11'24.65" (32.190181°) LONGITUDE = 103°27'33.95" (103.459432°) STATE PLANE NAD 83 (N.M. EAST) Y: 434020.59' X: 811680.49' UTM, NAD 83 (ZONE 13) Y: 11688153.56' X: 2116863.80'	NAD 83 (PP/FTP) LATITUDE = 32°11'19.70" (32.188806°) LONGITUDE = 103°27'33.58" (103.459327°) STATE PLANE NAD 83 (N.M. EAST) Y: 433520.94' X: 811716.99' UTM, NAD 83 (ZONE 13) Y: 11687654.21' X: 2116903.39'
NAD 83 (LTP/BHL) LATITUDE = 32°12'36.05" (32.210013°) LONGITUDE = 103°27'33.66" (103.459350°) STATE PLANE NAD 83 (N.M. EAST) Y: 441235.65' X: 811647.07' UTM, NAD 83 (ZONE 13) Y: 11695367.32' X: 2116785.63'	NOTE: • Distances referenced on plat to section lines are perpendicular. • Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



PAUL BUCHELE
NEW MEXICO
23782
07-08-20
PROFESSIONAL SURVEYOR

Certificate Number: _____

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
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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		² Pool Code 96434		³ Pool Name Ojo Chiso; Bone Spring	
⁴ Property Code		⁵ Property Name JULIET FEDERAL COM			⁶ Well Number 312H
⁷ OGRID No. 372165		⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			⁹ Elevation 3465.2'

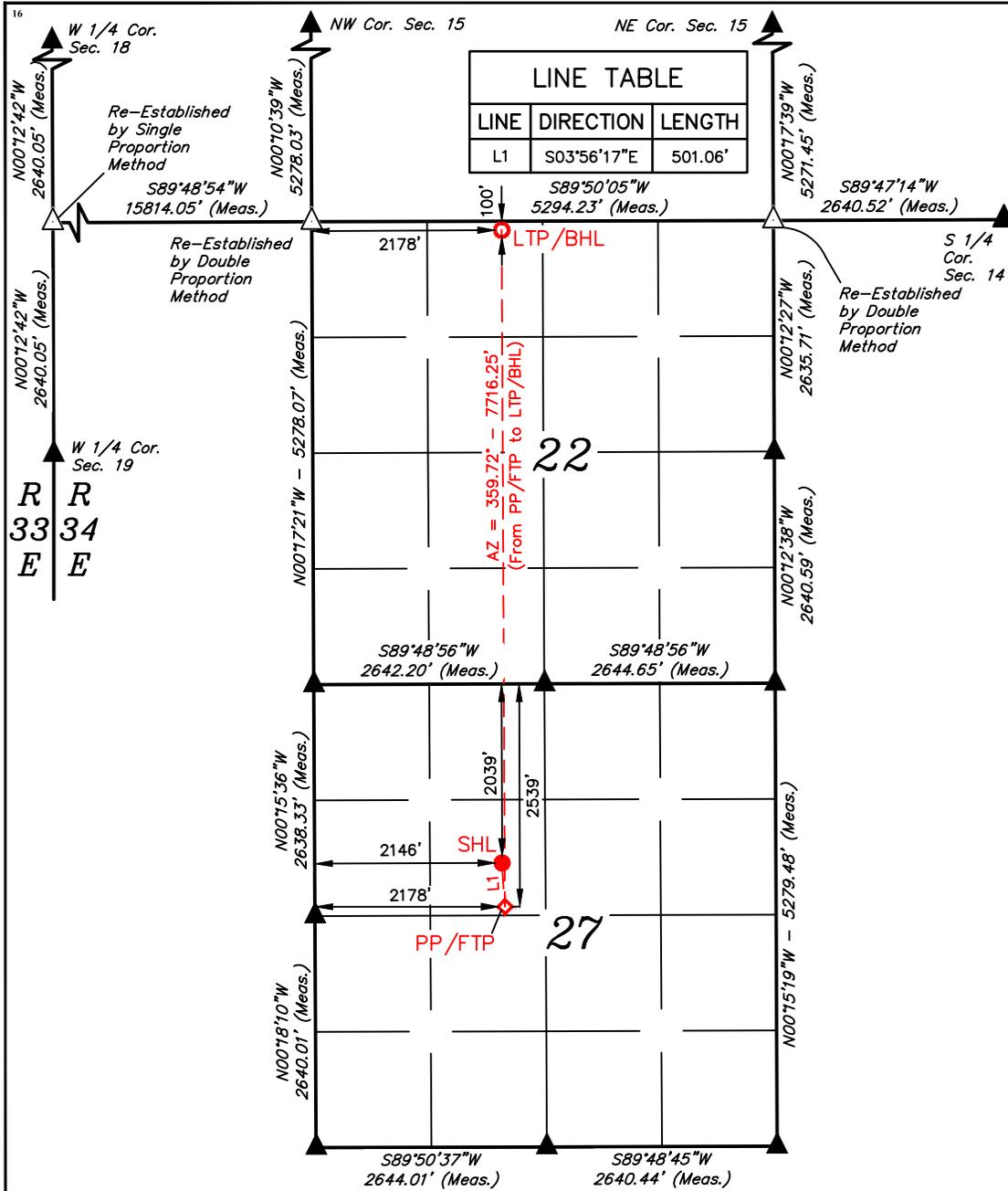
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	24S	34E		2039	NORTH	2146	WEST	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
C	22	24S	34E		100	NORTH	2178	WEST	LEA
¹² Dedicated Acres 240		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.



¹⁷ OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

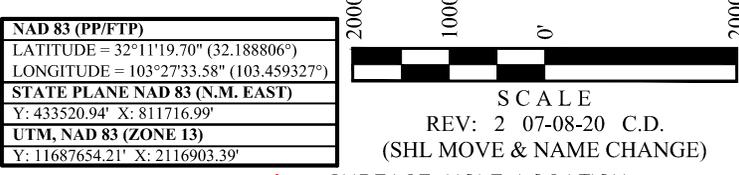
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

July 02, 2020

Date of Survey _____
Signature and Seal of Professional Surveyor: _____

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NAD 83 (LTP/BHL) LATITUDE = 32°12'36.05" (32.210013°) LONGITUDE = 103°27'33.66" (103.459350°) STATE PLANE NAD 83 (N.M. EAST) Y: 441235.65' X: 811647.07' UTM, NAD 83 (ZONE 13) Y: 11695367.32' X: 2116785.63'	NOTE: • Distances referenced on plat to section lines are perpendicular. • Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



- = SURFACE HOLE LOCATION
- ◆ = PENETRATION POINT / FIRST TAKE POINT
- = LAST TAKE POINT / BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)



Certificate Number: _____



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

Application Data Report

03/31/2022

APD ID: 10400066803

Submission Date: 12/17/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400066803

Tie to previous NOS? N

Submission Date: 12/17/2020

BLM Office: Carlsbad

User: KANICIA SCHLICHTING

Title: Sr. Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM77090

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

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)441-5515

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: JULIET FEDERAL COM

Well Number: 312H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: AVALON A

Pool Name: OJO CHISO,
BONE SPRING

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N

Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1

Well Class: HORIZONTAL

JULIET FED 27 SENW

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 20 Miles

Distance to nearest well: 30 FT

Distance to lease line: 2146 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: Juliet_Fed_Com_312H_Lease_C102_20201217101026.pdf

Juliet_Fed_Com_312H_C102_20201217101028.pdf

Well work start Date: 12/30/2022

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 23782

Reference Datum: GROUND LEVEL

Wellbore	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	Will this well produce from this lease?
SHL Leg #1	2039	FNL	2146	FWL	24S	34E	27	Aliquot SENW 1	32.19018	-103.459432	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	3468	0	0	Y
KOP Leg #1	2039	FNL	2146	FWL	24S	34E	27	Aliquot SENW 1	32.19018	-103.459432	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	-6792	10608	10260	Y

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Wellbore	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	Will this well produce from this lease?
PPP Leg #1-1	2539	FNL	2178	FWL	24S	34E	27	Aliquot SENW	32.188806	-103.459327	LEA	NEW MEXICO	NEW MEXICO	F	FEE	-6061	9885	9529	Y
EXIT Leg #1	100	FNL	2178	FWL	24S	34E	22	Aliquot NENW	32.210013	-103.45935	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77090	-6792	17749	10260	Y
BHL Leg #1	100	FNL	2178	FWL	24S	34E	22	Aliquot NENW	32.210013	-103.45935	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77090	-6792	17749	10260	Y



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

Drilling Plan Data Report

03/31/2022

APD ID: 10400066803

Submission Date: 12/17/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1236850	RUSTLER	3468	1079	1079	SANDSTONE	NONE	N
1236851	SALADO	1770	1698	1698	ANHYDRITE, SALT	USEABLE WATER	N
1236852	LAMAR	-1891	5359	5359	SHALE	USEABLE WATER	N
1236853	BELL CANYON	-1963	5431	5431	SANDSTONE	NATURAL GAS, OIL	N
1236854	CHERRY CANYON	-2863	6331	6331	SANDSTONE	NATURAL GAS, OIL	N
1236855	BRUSHY CANYON	-4418	7886	7886	SANDSTONE	NATURAL GAS, OIL	N
1236856	BONE SPRING LIME	-5808	9276	9276	OTHER : Carbonate	NATURAL GAS, OIL	N
1236857	AVALON SAND	-5829	9297	9297	SHALE	CO2, NATURAL GAS, OIL	N
1236858	FIRST BONE SPRING SAND	-6771	10239	10239	SANDSTONE	NATURAL GAS, OIL	Y
1236859	BONE SPRING 2ND	-6972	10440	10440	SHALE	NATURAL GAS, OIL	N
1236860	BONE SPRING 3RD	-7798	11266	11266	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10260

Equipment: The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casinghead: 13 5/8 5,000 psi SOW x 13 5,000 psi WP Intermediate Spool: 13 5,000 psi WP x 11 5,000 psi WP Tubinghead: 11 5,000 psi WP x 7 1/16" 15,000 psi WP 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 line 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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

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 intermediate casing setting depth. Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and a pressure gauge installed on choke manifold.

Requesting Variance? YES

Variance request: Centennial Resource Production, LLC hereby requests to use a flex hose on H&P choke manifold for the Juliet Fed Com 113H well. The Flex Hose specifications are listed on the following pages.

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) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. 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 3500 psi. 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. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 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 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachment:

HP489_10M_Choke_Manifold_20201101220449.pdf

BOP Diagram Attachment:

CDEV_Well_Control_Plan_20201101230926.pdf

HP489_BOP_Schematic_CoFlex_Choke_5K_2019_1_29_20201101220457.pdf

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	Body SF	
1	CONDUCTOR	26	20.0	NEW	API	N	0	120	0	120	3468	3348	120	H-40	94	OTHER - weld							
2	SURFACE	17.5	13.375	NEW	API	N	0	1150	0	1150	3468	2318	1150	J-55	54.5	OTHER - BTC	1.99	27.34	DRY	13.61	DRY	13.61	
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5400	0	5388	3468	-1920	5400	J-55	40	LT&C	1.3	8.44	DRY	2.41	DRY	2.92	
4	PRODUCTION	8.75	5.5	NEW	API	N	0	10608	0	10260	3468	-6792	10608	T-95	23	OTHER - VA roughneck AC	2.08	14.18	DRY	2.72	DRY	2.72	
5	PRODUCTION	8.5	5.5	NEW	API	N	10608	17749	10260	10260	-6792	-6792	7141	T-95	23	OTHER - VA roughneck AC	2.08	14.18	DRY	2.72	DRY	2.72	

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Casing Attachments

Casing ID: 1 **String Type:** CONDUCTOR

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20201101222024.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Casing Attachments

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20201101221404.pdf

5.5in_x_23ppf_T95_VAroughneck_20201217143652.pdf

Casing ID: 5 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20201101221651.pdf

5.5in_x_23ppf_T95_VAroughneck_20201217143809.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
PRODUCTION	Lead		0	0	0	0	0	0	0		0

CONDUCTOR	Lead		0	120	121	1.49	12.9	181	0	Grout	Bentonite 4% BWOC, Cellophane #/sx, CaCl2 2% BWOC.
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Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	650	519	1.74	13.5	903	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		650	1150	518	1.34	14.8	695	100	Class C Premium	C-45 Econolite 0.10%, CaCl 1.0%
INTERMEDIATE	Lead		0	4900	1157	3.44	10.7	3979	150	TX Lightweight	Salt 1.77/sk, C-45 Econolite 2.25%, STE 6.00%, Citric Acid 0.18%, C-19 0.10%, CSA-1000 0.20%, C-530P 0.30%, CTB-15 LCM 7#/sk, Gyp Seal 8#/sk
INTERMEDIATE	Tail		4900	5400	141	1.33	14.8	188	20	Class C Premium	C-45 Econolite 0.10%, Citric acid 0.05%, C503P 0.25%
PRODUCTION	Lead		0	9709	952	3.41	10.6	3245	30	TXI Lightweight	Salt 8.98#/sk, STE 6.00%, Citric acid 0.20%, CSA-1000 0.23%, C47B 0.10%, C-503P 0.30%
PRODUCTION	Tail		9709	17750	1878	1.24	14.2	2329	25	50:25:25 Class H: Poz: CPO18	Citric acid 0.03%, CSA-1000 0.05%, C47B 0.25%, C-503P 0.30%

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 and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a diesel emulsified brine fluid to inhibit salt washout and prevent severe fluid losses. The production hole will employ oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Circulating Medium Table

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1150	OTHER : FW	8.6	9.5							
1150	5400	OTHER : Brine	9	10							
5400	1774 9	OTHER : Brine/OBM	8.8	10							

Section 6 - Test, Logging, Coring

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

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

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

DIRECTIONAL SURVEY,GAMMA RAY LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5335

Anticipated Surface Pressure: 3077

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_20201217144419.docx

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JULIET_FED_COM_312H___DIRECTIONAL_PLAN_20201217144509.pdf

Other proposed operations facets description:

Gas Capture, WBD, Geo prog attached.

Other proposed operations facets attachment:

CRD_Batch_Setting_Procedures_20201101230021.pdf

GEOPROG_Juliet_Fed_312H_PRELIM_20201217144533.pdf

CDEV_Well_Control_Plan_Bonesprings_20201217144606.pdf

Wellhead_Schematic_20201217144623.pdf

WBD_20201217144623.pdf

Multibowl_Procedure_20201217144641.pdf

Juliet_113H_514H_Gas_Capture_Plan_20201217144753.pdf

Other Variance attachment:

H_P_489_Flex_Hose_Specs_Continental_Hose_SN_67255_20201101230253.pdf

CONFIDENTIAL

Centennial Resource Development - Well Control Plan

A. Component and Preventer Compatibility Table

Component	OD (inches)	Preventer	RWP
Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Heavyweight Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Drill collars and MWD tools	6 ¾	Annular	5M
Mud Motor	6 ¾	Annular	5M
Production Casing	5-1/2	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
All	0 – 13 5/8	Annular	5M
Open-hole	-	Blind rams	10M

VBR = Variable Bore Rams

RWP = Rated Working Pressure

MWD = Measurement While Drilling (directional tools)

B. Well Control Procedures

I. General Procedures While Drilling:

1. Sound alarm (alert crew).
2. Space out drill-string.
3. Shut down pumps and stop rotary.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record
 - I. Shut-in drillpipe pressure (SIDPP) and shut-in casing pressure (SCIP).
 - II. Pit gain
 - III. Time
11. Regroup, identify forward plan

II. General Procedure While Tripping

1. Sound alarm (alert crew).
2. Stab full opening safety valve and close
3. Space out drillstring.
4. Open HCR
5. Shut-in well – utilizing upper VBRs
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
11. Regroup and identify forward plan.

III. General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out string.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
11. Regroup and identify forward plan.

IV. General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Open HCR
3. Shut-in with blind rams
4. Close choke
5. Confirm shut-in
6. Notify rig manager and Centennial company representative.
7. Call Centennial drilling engineer
8. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
9. Regroup and identify forward plan.

V. General Procedures While Pulling BHA Thru BOP Stack

1. Prior to pulling last joint of drillpipe thru stack:

- I. Perform flow check, if flowing
 - a. Sound alarm, alert crew
 - b. Stab full opening safety valve and close
 - c. Space out drillstring with tool joint just beneath the upper pipe ram.
 - d. Open HCR
 - e. Shut-in utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut-in
 - h. Notify rig manager and Centennial company representative.
 - i. Call Centennial drilling engineer
 - j. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- II. Regroup and identify forward plan

2. With BHA in the BOP stack and compatible ram preventer and pipe combo immediately available:

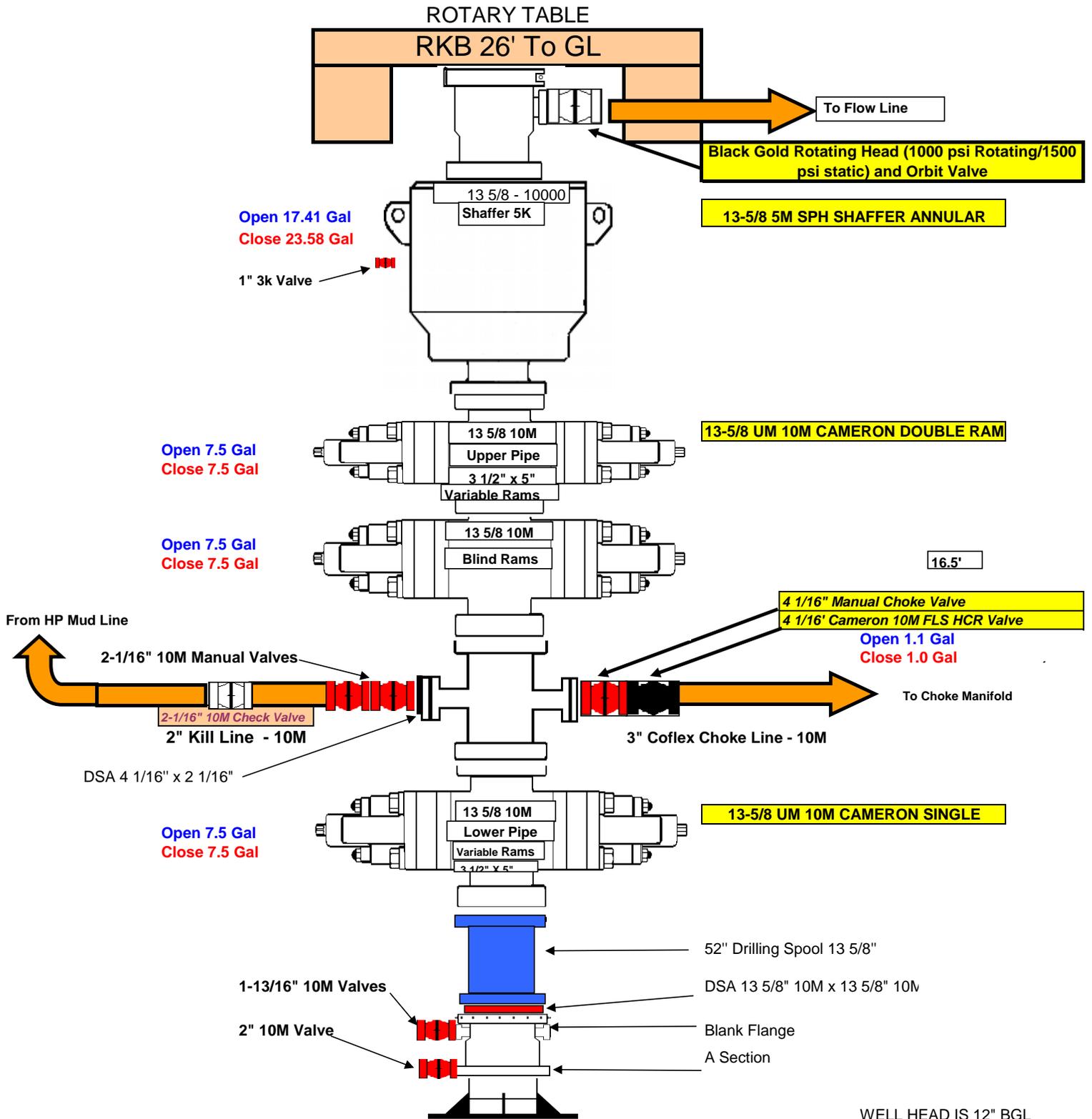
- a. Sound alarm, alert crew
- b. Stab full opening safety valve and close
- c. Space out drillstring with tool joint just beneath the upper pipe ram.
- d. Open HCR
- e. Shut-in utilizing upper VBRs
- f. Close choke
- g. Confirm shut-in
- h. Notify rig manager and Centennial company representative.
- i. Call Centennial drilling engineer
- j. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- II. Regroup and identify forward plan

3. With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately available:

- I. Sound alarm, alert crew.
- II. If possible to pick up high enough, pull string clear of the stack and follow Open Hole (III) scenario.
- III. If impossible to pick up high enough to pull the string clear of the stack:
 - a. Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close.
 - b. Space out drillstring with tool joint just beneath the upper pipe ram.
 - c. Open HCR
 - d. Shut-in utilizing upper VBRs.
 - e. Close choke
 - f. Confirm shut-in
 - g. Notify rig manager and Centennial company representative.
 - h. Call Centennial drilling engineer
 - i. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- IV. Regroup and identify forward plan.

**** If annular is used to shut-in well and pressure builds to OR is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut-in.**

H&P 489



CASING ASSUMPTIONS WORKSHEET:

Centralizer Program:

Surface: - 3 welded bow spring centralizers, one on each of the bottom 3 joints, plus one on the shoe joint (4 minimum)
 - No Cement baskets will be run

Production: - 1 welded bow spring centralizer on a stop ring 6' above float shoe
 - 1 centralizer every other joint to the top of the tail cement
 - 1 centralizer every 4 joints to 500' below the top of the lead cement
 - The actual number and placement of centralizers will be determined from hole deviation and potential production zones. Centralizers will be run for maximum practical standoff and through all potential productive zones.

- All casing strings below the conductor shall be tested, prior to drilling out the casing shoe, to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield pressure of the casing. If pressure declines more than 10 percent in 30 minutes, corrective action will be taken.

No freshly hard banded pipe will be rotated in the surface casing

- CENTENNIAL RESOURCE DEVELOPMENT will not employ an air-drill rig for the surface casing. The casing shoe will be tested by drilling 5'-10' out from under the shoe and pressure testing to the maximum expected mud weight equivalent as shown in the mud program listed in the drilling plan.

TECHNICAL DATA SHEET

Connection: **VAroughneckAC**

Grade: **T95-1**

Size: **5 1/2 in X 23.00 lb/ft**

Drift: **standard**

Bevel: **standard**

Material:

	<u>US Customary</u>	<u>Metric</u>
Yield Strength Min.	95,000 psi	655 Mpa
Yield Strength Max.	110,000 psi	758 Mpa
Tensile Strength Min.	105,000 psi	724 Mpa

Pipe:

	<u>US Customary</u>	<u>Metric</u>		<u>US Customary</u>	<u>Metric</u>
Nominal OD:	5.500 in	139.70 mm	Wall Thickness:	0.415 in	10.54 mm
Nominal ID:	4.670 in	118.62 mm	Standard Drift:	4.545 in	115.44 mm
Nominal Weight:	23.00 lb/ft	34.38 kg/m	Pipe Body Yield Strength:	630 klb	2,800 kN
Pipe Cross Section:	6.630 in ²	4,277.41 mm ²			

Connection:

	<u>US Customary</u>	<u>Metric</u>		
OD:	6.300 in	160.02 mm	Threads per inch:	5 Threads
ID:	4.669 in	118.60 mm		
Length:	8.976 in	228.00 mm		

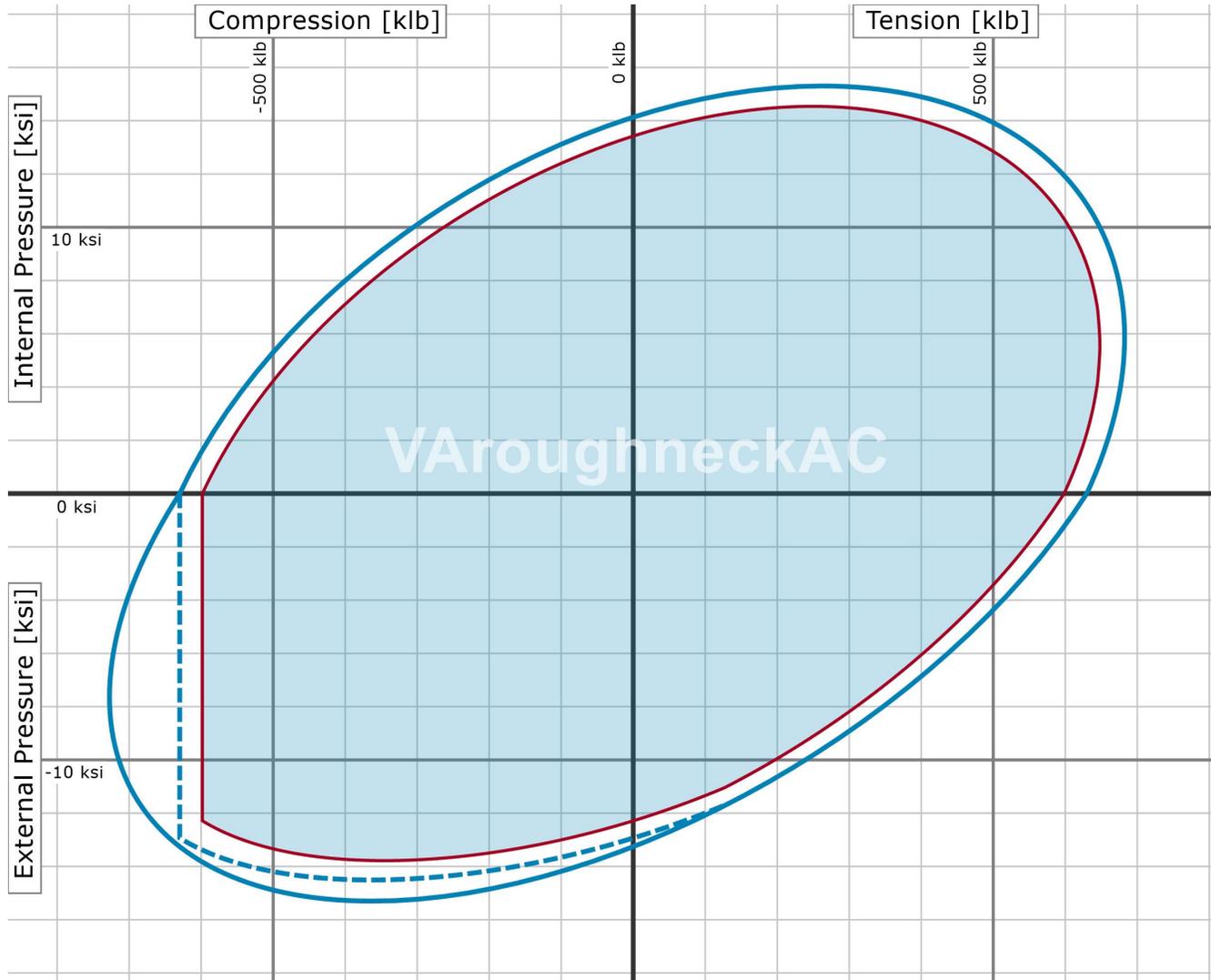
Connection Performance (Uniaxial Load):

	<u>US Customary</u>	<u>Metric</u>		<u>US Customary</u>	<u>Metric</u>
Joint Strength:	630 klb	2,800 kN	Tension Efficiency:	> 100.0 %	
Collapse Resistance:.	12,940 psi	89.20 Mpa	Displacement:	1.242 gal/ft	15.43 l/m
Internal Yield Pressure:	12,550 psi	86.50 Mpa	Production:	0.890 gal/ft	11.05 l/m
Load on Coupling Face:	542 klb	2,410 kN			

Field Make Up (Friction Factor = 1.0):

	<u>US Customary</u>	<u>Metric</u>		<u>US Customary</u>	<u>Metric</u>
Minimum Torque:	16,150 ft.lb	21,890 Nm	Make-Up Loss:	4.370 in	111.00 mm
Optimum Torque:	17,940 ft.lb	24,320 Nm	Yield Torque:	22,420 ft.lb	30,400 Nm
Maximum Torque:	19,730 ft.lb	26,750 Nm			
Min. Torque on Shoulder:	%				

LOAD ENVELOPE



Recommended Field of Application

- Pipe Body Envelope
- - - Pipe Body Collapse

Efficiency (% Pipe Body) under Uniaxial Loads

Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	100.0 %
External Pressure:	100.0 %

Sealability Rating (% Efficiency) under Combined Loads

Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	100.0 %
External Pressure:	100.0 %

Test Conditions

Test Medium:	Fluid
Von Mises Envelope:	95.0 %
Bending:	20.00 °/100ft

The graph is calculated under consideration of the requirements of EN ISO 13679 and API 5C3. The combined loads are calculated without the consideration of wall thickness tolerances and differ from the values in the data sheet, which are calculated with tolerances determined by API. Any printout is NOT SUBJECT TO REGULAR REVISION. The generated performance envelope shall solely be used as a tool to facilitate the comparison of performance properties under combined loads, of different grades, sizes and connections of voestalpine Tubulars products. Field-specific safety/design factors as well as other loads are not considered. Thus the results shall by no means be used to replace the own string design engineering or to justify any warranty/guaranty cases.

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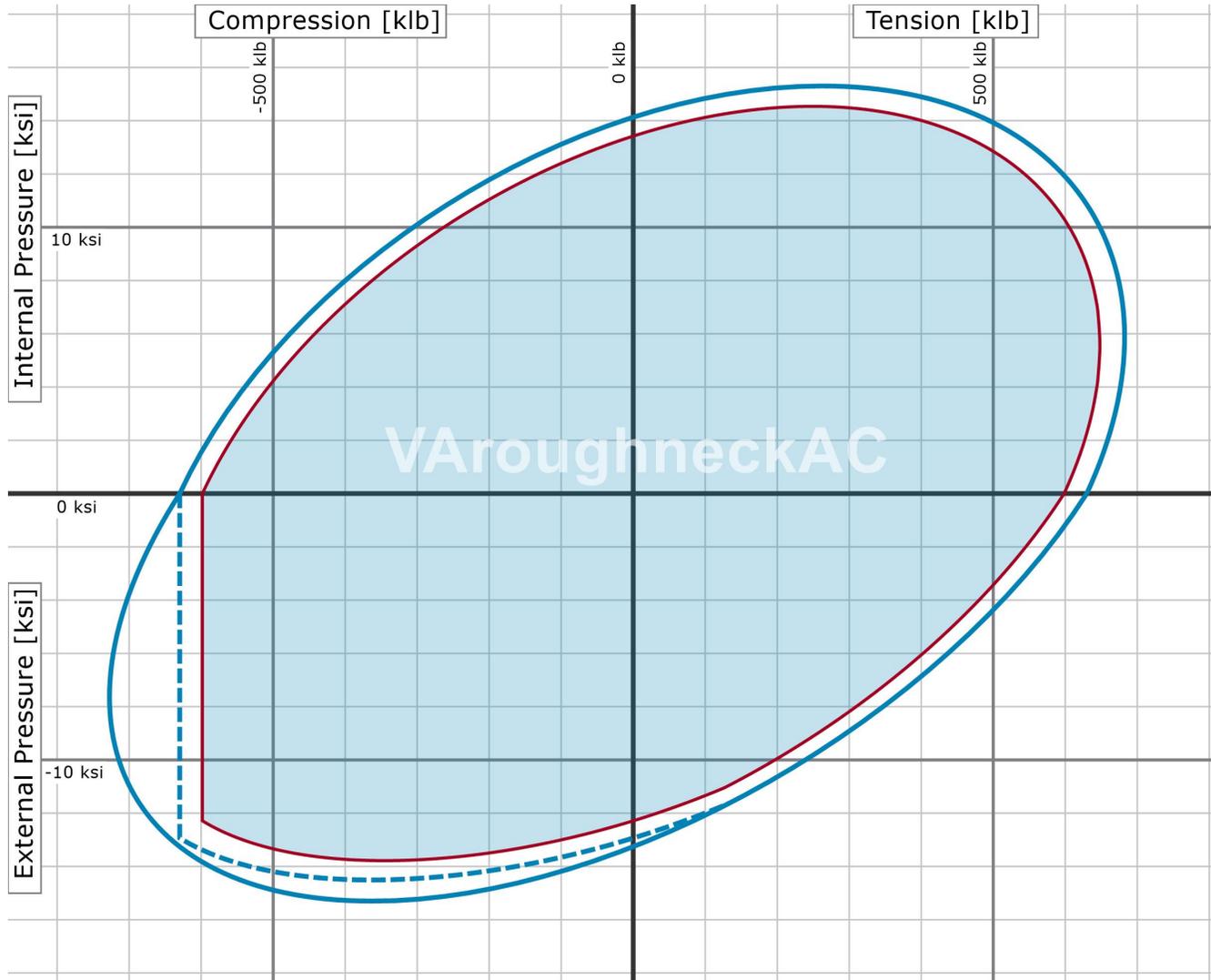
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Von Mises Envelope:	95.0 %
Bending:	20.00 °/100ft

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NEW MEXICO

LEA

JULIET FEDERAL COM

JULIET FED COM 312H

JULIET FED COM 312H

Plan: PWP0

Standard Survey Report

15 October, 2020

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 312H
Project:	LEA	TVD Reference:	RKB=3465.2+26 @ 3491.2ft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3465.2+26 @ 3491.2ft
Well:	JULIET FED COM 312H	North Reference:	True
Wellbore:	JULIET FED COM 312H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	JULIET FEDERAL COM				
Site Position:		Northing:	0.00 m	Latitude:	0° 0' 0.000 N
From:	Map	Easting:	0.00 m	Longitude:	109° 29' 19.478 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.00 °

Well	JULIET FED COM 312H					
Well Position	+N/-S	0.0 ft	Northing:	3,562,556.37 m	Latitude:	32° 11' 24.652 N
	+E/-W	0.0 ft	Easting:	645,221.35 m	Longitude:	103° 27' 33.955 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	3,465.2 ft

Wellbore	JULIET FED COM 312H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.70	60.23	48,784.55125044

Design	PWP0				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	0.20	

Survey Tool Program	Date	10/15/2020			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,749.5	PWP0 (JULIET FED COM 312H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	5.00	176.30	2,499.4	-21.8	1.4	-21.8	1.00	1.00	0.00	
7,750.0	5.00	176.30	7,729.4	-478.4	30.9	-478.3	0.00	0.00	0.00	
8,250.0	0.00	0.00	8,228.8	-500.1	32.3	-500.0	1.00	-1.00	0.00	
9,708.5	0.00	0.00	9,687.3	-500.1	32.3	-500.0	0.00	0.00	0.00	
10,608.2	90.00	0.40	10,260.0	72.6	36.3	72.7	10.00	10.00	0.00	
13,849.4	90.00	359.77	10,260.0	3,313.8	41.1	3,313.9	0.02	0.00	-0.02	
17,749.8	90.00	359.77	10,260.0	7,214.1	25.3	7,214.2	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 312H
Project:	LEA	TVD Reference:	RKB=3465.2+26 @ 3491.2ft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3465.2+26 @ 3491.2ft
Well:	JULIET FED COM 312H	North Reference:	True
Wellbore:	JULIET FED COM 312H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude	
LTP/BHL - JULIET FED COM - hit/miss target - Shape	0.00	0.00	10,260.0	7,214.1	25.3	3,564,755.13	645,197.57	32° 12' 36.047 N	103° 27' 33.660 W	
- plan hits target center										
- Circle (radius 50.0)										
FTP - JULIET FED COM - hit/miss target - Shape	0.00	0.00	10,260.0	-500.2	32.5	3,562,404.08	645,233.43	32° 11' 19.702 N	103° 27' 33.577 W	
- plan misses target center by 237.3ft at 10158.3ft MD (10092.2 TVD, -332.4 N, 33.5 E)										
- Circle (radius 50.0)										

Checked By: _____ Approved By: _____ Date: _____

Centennial Resource Development New Mexico Multi-Well Pad Drilling Batch Setting Procedures

➤ Avalon and Bone Springs Formations

13-3/8" Surface Casing - CRD intends to preset 13-3/8" casing to a depth approved in the APD. 17-1/2" Surface Holes will be batch drilled by a Surface Preset rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill 17-1/2" Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land 13-3/8" 54.5# J55 BTC casing to depth approved in APD.
3. Cement 13-3/8" casing with cement to surface and floats holding.
4. Cut / Dress 20" Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor (see [Illustration 1-1 Below](#)). Weld performed per Cameron weld procedure.
5. Test Weld to 70% of 13-3/8" casing collapse or ~ 790psi.
6. Install nightcap with Pressure Gauge on wellhead. Nightcap is shown on final wellhead Stack up [Illustration #2-2 page 3](#).
7. Skid Rig to adjacent well to drill Surface hole.
8. Surface casing test will be performed by the Big Rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

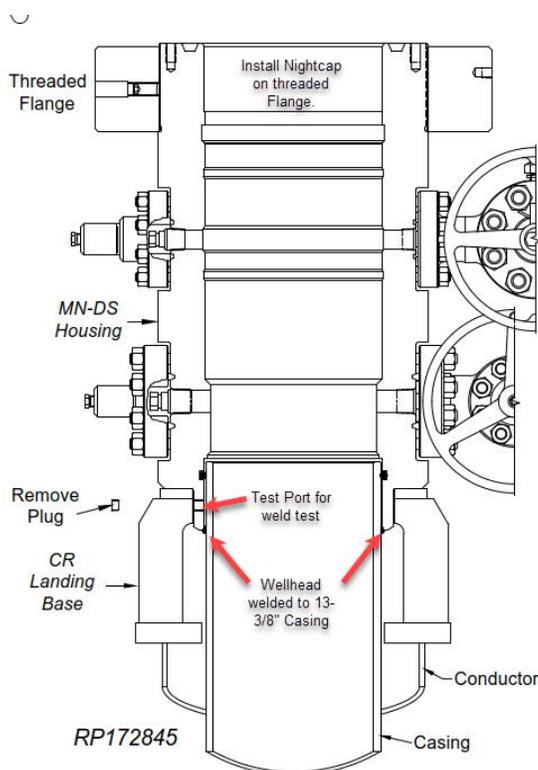


Illustration 1-1

- Intermediate and Production Casing – For all subsequent Intermediate and Production Casing Strings, the Big Rig will remove the nightcap and install and test BOPE. Prior to drill out the 13-3/8" Casing will be tested to 0.22psi/ft or 1500psi whichever is greater. The well will be drilled below 13-3/8" to its intended final TD in the Avalon or Bonesprings formations. Batch drilling will not be executed for casing strings below the 13-3/8". Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings. The

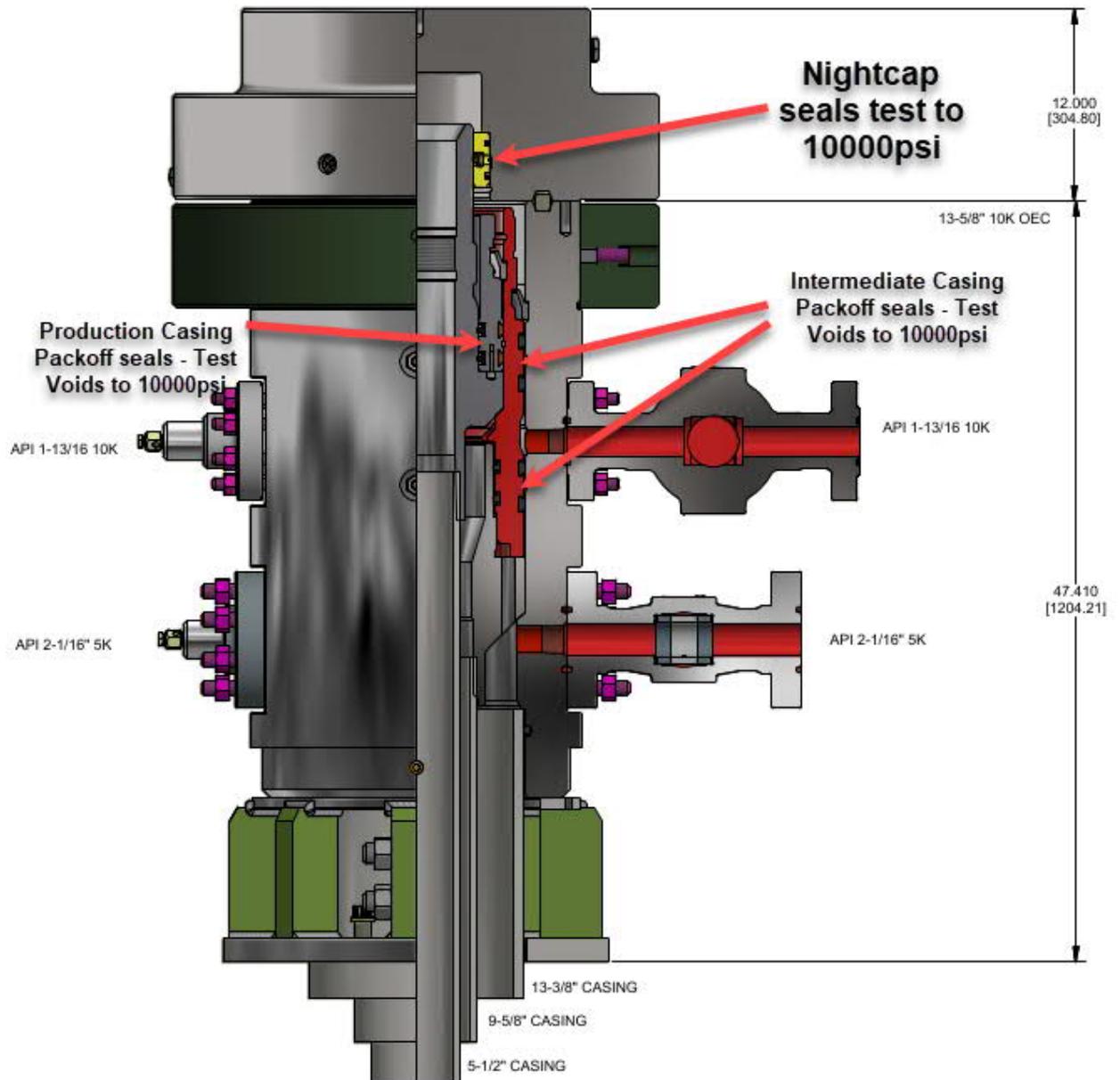
➤ Wolfcamp Formations

13-3/8" Surface Casing - CRD intends to preset 13-3/8" casing to a depth approved in the APD. Surface Holes will be batch set by a Surface Preset rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill 17-1/2" Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land 13-3/8" 54.5# J55 BTC casing to depth approved in APD.
3. Cement 13-3/8" casing with cement to surface and floats holding.
4. Cut / Dress 20" Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor (see [Illustration 1-1](#)). Weld performed per Cameron weld procedure.
5. Test Weld to 70% of 13-3/8" casing collapse or ~ 790psi.
6. Install nightcap with Pressure Gauge on wellhead. Nightcap is shown on final wellhead Stack up [Illustration #2-2 on page 3](#).
7. Subsequent casing test will be performed by the Big Rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

Intermediate Casing – CRD intends to Batch set all intermediate casing strings to a depth approved in the APD, typically set 100' above KOP in the 3rd Bonesprings Carbonate. For the last intermediate section drilled on pad, the associated production interval will immediately follow. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Big Rig will remove the nightcap and install and test BOPE.
2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
3. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
6. Cement casing to surface with floats holding.
7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
8. Install pack-off and test void to 10000 psi for 15 minutes. Nightcap shown on final wellhead stack up [illustration 2-2 on page 3](#).
9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
10. Install nightcap – skid rig to adjacent well to drill Intermediate hole.



WITH CAP

Illustration 2-2

Production Casing – CRD intends to Batch set all Production casings, except for the last intermediate hole. In this case the production interval will immediately follow the intermediate section on that well. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Big Rig will remove the nightcap and install and test BOPE.
2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
3. Drill Vertical hole to KOP – Trip out for Curve BHA.
4. Drill Curve, landing in production interval – Trip for Lateral BHA.

5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" Production Casing.
6. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
7. Cement 5-1/2" Production string to surface with floats holding.
8. Run in with wash tool and wash wellhead area – install pack-off and test void to 10000psi for 15 minutes.
9. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 10000psi for 30 minutes per [illustration 2-2 page 3](#).
11. Skid rig to adjacent well on pad to drill production hole.

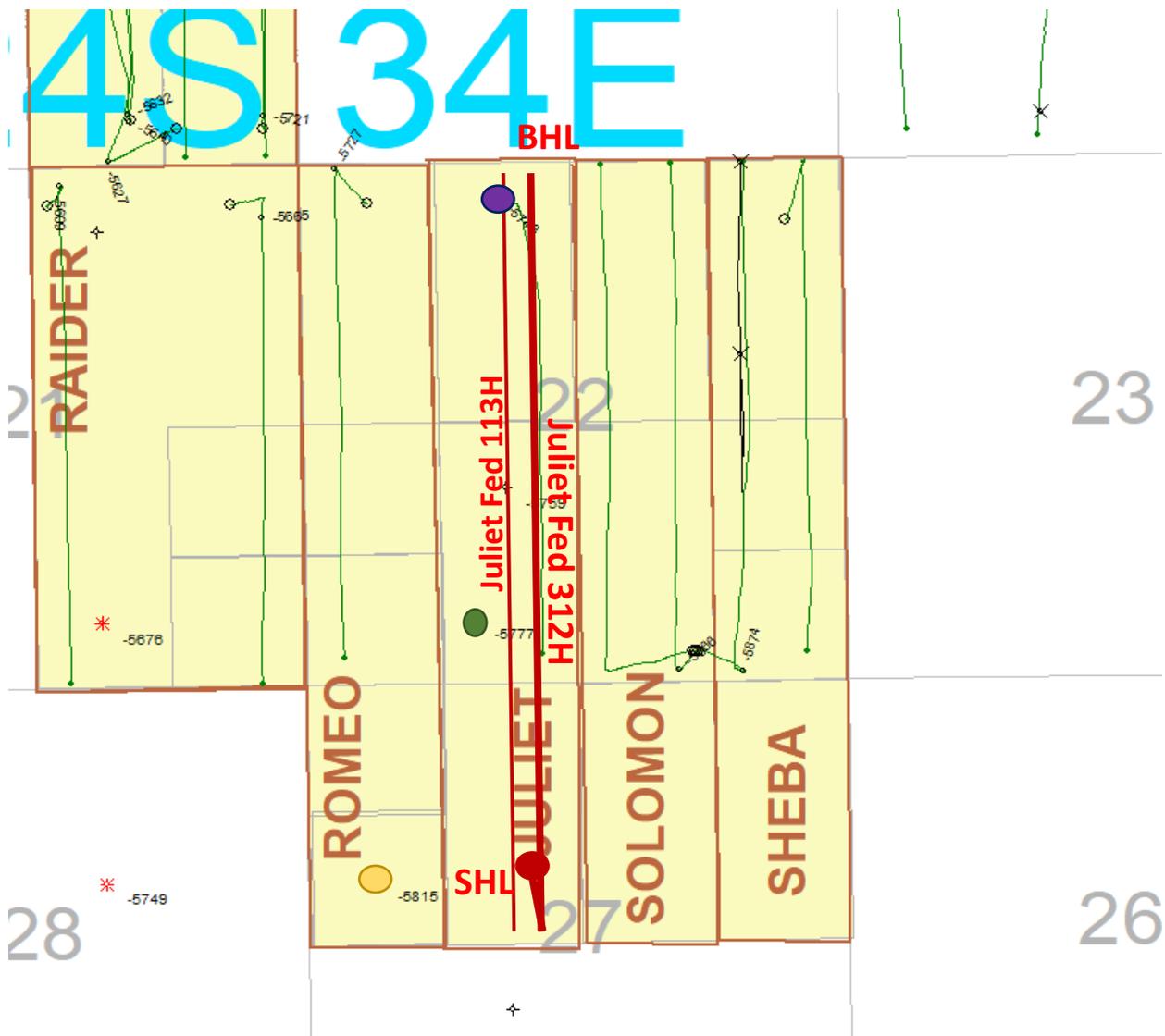
GEOLOGIC PROG

			WELL NAME		Juliet Fed Com 312H		10/10/2020		
			AREA		Solomon		API		
			HZ TARGET		FBSG Sand		WI %		
			LAT LENGTH		7,700		AFE#		
			TRRC PERMIT				COUNTY		Lea
	TWNP	RNG	SECTION	FOOTAGE		COMMENT			
SHL	24S	34E	27	2039' FNL 2146' FWL		On lease. Drill S to N.			
FTP/PP	24S	34E	27	2539' FNL 2178' FWL					
LTP	24S	34E	22	100' FNL 2178' FWL					
BHL	24S	34E	22	100' FNL 2178' FWL					
			GROUND LEVEL	3,465'	RIG KB	26'	KB ELEV	3,491'	
GEOLOGIST	Isabel Harper		isabel.harper@cdevinc.com			(303) 589-8841			
LOGGING		No open hole logging. MWD GR from drill out of surface casing to TD.							
MUDLOGGING		Standard mud logging and mud gas detection. Mud loggers on from drill out of surface casing to TD.							
FORMATION		TVD	SSTVD	THICKNESS	FINAL MD	FINAL TVD	DELTA		
Rustler		1,079'	2,412'	619'					
Salado		1,698'	1,793'	2,042'					
BX BLM (Fletcher Anhydrite)		3,740'	-249'	1,619'					
Lamar		5,359'	-1,868'	72'					
Bell Canyon		5,431'	-1,940'	900'					
Cherry Canyon		6,331'	-2,840'	218'					
Manzanita Lime		6,549'	-3,058'	1,337'					
Brushy Canyon		7,886'	-4,395'	1,390'					
Bone Spring Lime		9,276'	-5,785'	21'					
Avalon		9,297'	-5,806'	942'					
First Bone Spring Sand		10,239'	-6,748'	201'					
Second Bone Spring Shale		10,440'	-6,949'	826'					
Third Bone Spring Carb		11,266'	-7,775'	546'					
Third Bone Spring Sand		11,812'	-8,321'	385'					
Wolfcamp		12,197'	-8,706'						
Target Top at 0' VS		10,240'	-6,749'	40'					
Target Base at 0' VS		10,280'	-6,789'						
HZ TARGET AT 0' VS		10,260'	-6,769'						
TARGET: KBTVD = 10260' at VS, INC = 90.0 deg Target Window +10/-10'									
COMMENT: Currently Designed as Upper FBSG Sand Target									

GEOLOGIC PROG

OFFSET TYPE WELLS				
	DRILLING WELL	Juliet Fed Com 312H		
	HZ TARGET	FBSG Sand	AREA	
	PRIMARY TYPE LOG		SECONDARY TYPE LOG	
	Madera 8706 JV-P Com 1		Madera 'B' 8706 JV-P Com 1	
	30-025-29917		30-025-30179	
LOCATION	4S 34E Sec27/ 1980 FNL 660 FW	4S 34E Sec22/ 660' FSL 1650' FW		
DISTANCE	1460' West of SHL	2900' North of SHL		
DIRECTION SURVEY	No	No		
KB ELEV	3,493'	3,531'		

LOCATION & STRUCTURE MAP

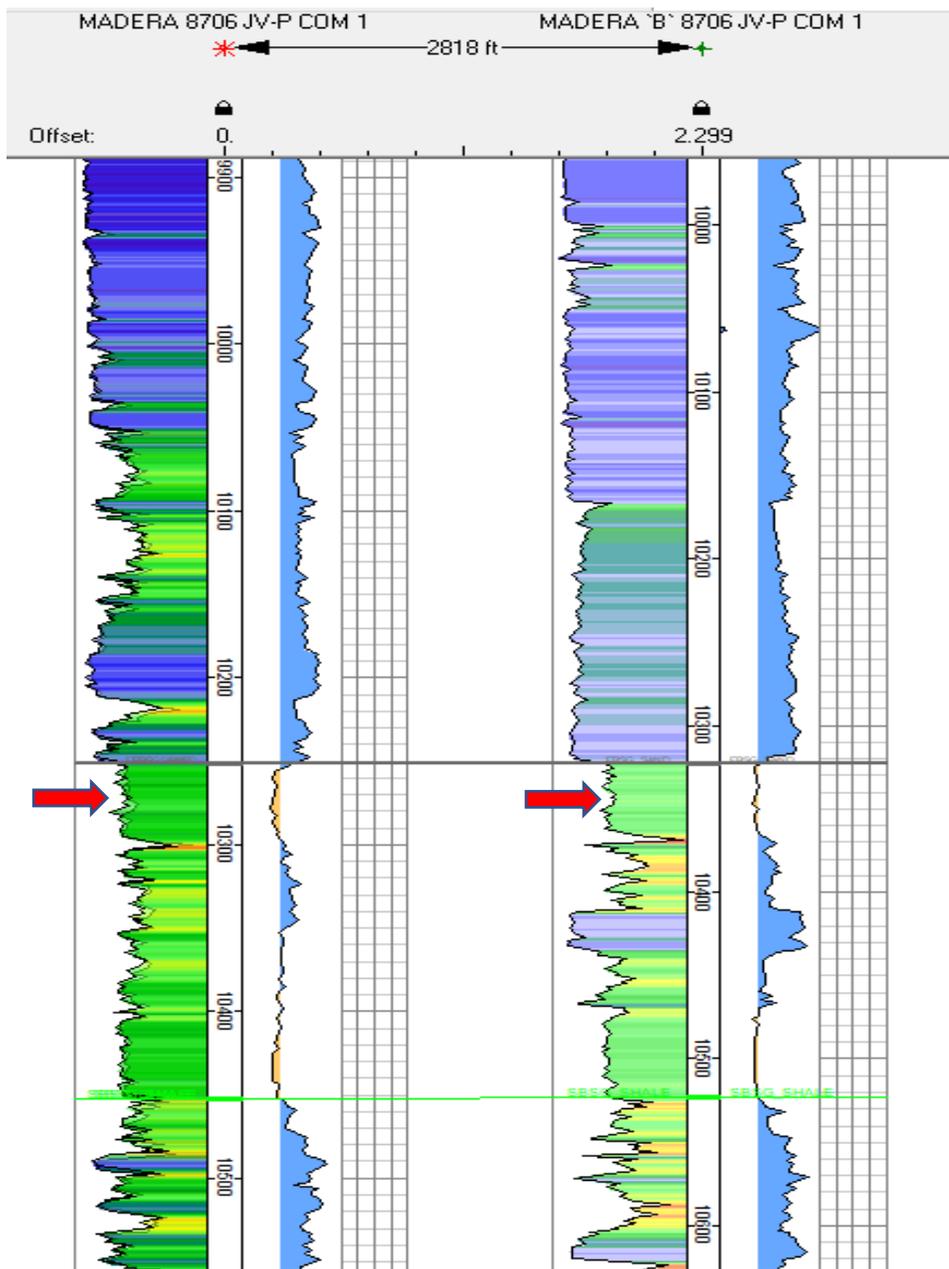


Location Map

GEOLOGIC PROG

OFFSET TYPE SECTION				
	DRILLING WELL	Juliet Fed Com 312H		
	HZ TARGET	FBSG Sand	AREA	
	PRIMARY TYPE LOG		SECONDARY TYPE LOG	
	Madera 8706 JV-P Com 1		Madera 'B' 8706 JV-P Com 1	
	30-025-29917	30-025-30179		
LOCATION	24S 34E Sec27/ 1980 FNL 660 FW		24S 34E Sec22/ 660' FSL 1650' FWL	
DISTANCE	1460' West of SHL		2900' North of SHL	
DIRECTION SURVEY	No		No	
KB ELEV	3,493'		3,531'	

Type Log and Target Zone



GEOLOGIC PROG

GEOPHYSICAL DATA

POTENTIAL GEOHAZARDS

SEISMIC DISPLAYS

GEOLOGIC PROG

MUD LOG DISTRIBUTION DETAILS				
	WELL NAME	Juliet Fed Com 312H		10/10/2020
	AREA	Solomon	API	
	HZ TARGET	FBSG Sand	WI %	
	LAT LENGTH	7700	AFE#	
	TRRC PERMIT		COUNTY	Lea
GEOLOGIST	Isabel Harper	isabel.harper@cdevinc.com		(303) 589-8841
Mud Logging Company				
None				
TBD		TBD		TBD
Contact 2		email		phone
Contact 3		email		phone
Daily distribution data requirements and protocol				
geodata@cdevinc.com; joe.woodske@cdevinc.com; drilling@cdevinc.com; dawn.billesbach@cdevinc.com, Andrew.welshhans@cdevinc.com; liam.kaltenback@cdevinc.com; nick.daniele@cdevinc.com; Isabel.Harper@cdevinc.com				
Daily email distribution list				
Final distribution data requirements				
Final distribution list				
Contact Information	Reports	Hard Copies	Digital data	Cuttings
Centennial Resource Development, c/o Joe Woodske, 1001 17th street, Suite 1800,	email final set	2 copies of 5" MD Vertical, 2 copies of 5" Horizontal and	email final set	
SCAL, Inc., 2613 South County Road 1257, Midland, TX 79706				No Dried Samples to be Collected
MWD Only: Centennial Resource Development, c/o Sarah Ferreyros, 1001 17th street, Suite	email final set	2 copies of the 5" MD vertical logs 2 copies of the 5"	email final set	
Project Geologist:	Isabel Harper		Production:	Brandon Morin
Operations Geologist:	Joe Woodske		Surface Land:	Bailey Joplim
Drilling:	Ronny Hise		Mineral Land:	Gavin Smith

Centennial Resource Development - Well Control Plan

A. Component and Preventer Compatibility Table

Component	OD (inches)	Preventer	RWP
Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Heavyweight Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Drill collars and MWD tools	6 ¾	Annular	5M
Mud Motor	6 ¾	Annular	5M
Production Casing	5-1/2	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
All	0 – 13 5/8	Annular	5M
Open-hole	-	Blind rams	10M

VBR = Variable Bore Rams

RWP = Rated Working Pressure

MWD = Measurement While Drilling (directional tools)

B. Well Control Procedures

I. General Procedures While Drilling:

1. Sound alarm (alert crew).
2. Space out drill-string.
3. Shut down pumps and stop rotary.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record
 - I. Shut-in drillpipe pressure (SIDPP) and shut-in casing pressure (SCIP).
 - II. Pit gain
 - III. Time
11. Regroup, identify forward plan

II. General Procedure While Tripping

1. Sound alarm (alert crew).
2. Stab full opening safety valve and close
3. Space out drillstring.
4. Open HCR
5. Shut-in well – utilizing upper VBRs
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
11. Regroup and identify forward plan.

III. General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out string.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
11. Regroup and identify forward plan.

IV. General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Open HCR
3. Shut-in with blind rams
4. Close choke
5. Confirm shut-in
6. Notify rig manager and Centennial company representative.
7. Call Centennial drilling engineer
8. Read and record:
 - I. SIDPP AND SICP
 - II. Pit gain
 - III. Time
9. Regroup and identify forward plan.

V. General Procedures While Pulling BHA Thru BOP Stack

1. Prior to pulling last joint of drillpipe thru stack:

- I. Perform flow check, if flowing
 - a. Sound alarm, alert crew
 - b. Stab full opening safety valve and close
 - c. Space out drillstring with tool joint just beneath the upper pipe ram.
 - d. Open HCR
 - e. Shut-in utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut-in
 - h. Notify rig manager and Centennial company representative.
 - i. Call Centennial drilling engineer
 - j. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- II. Regroup and identify forward plan

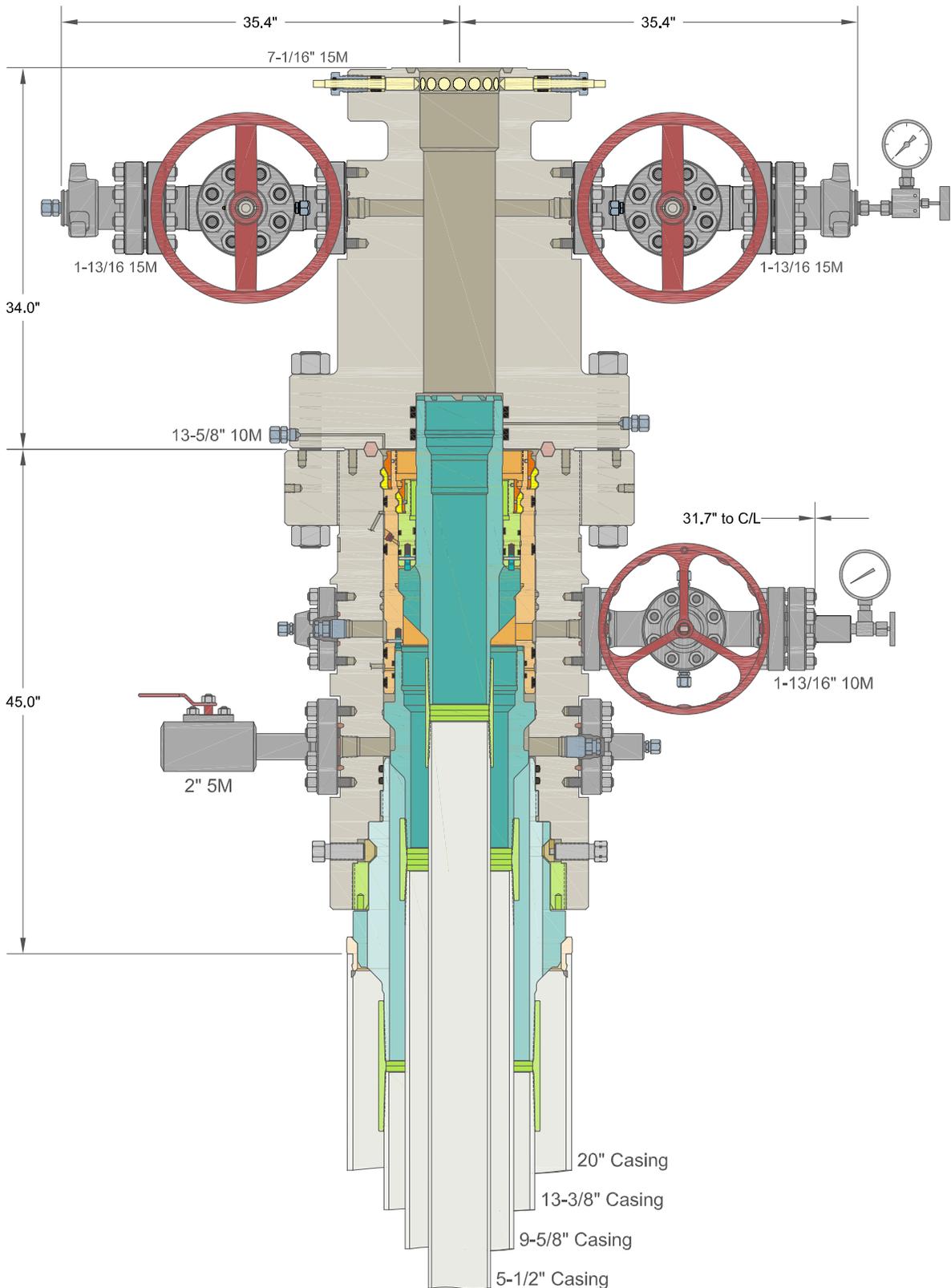
2. With BHA in the BOP stack and compatible ram preventer and pipe combo immediately available:

- a. Sound alarm, alert crew
- b. Stab full opening safety valve and close
- c. Space out drillstring with tool joint just beneath the upper pipe ram.
- d. Open HCR
- e. Shut-in utilizing upper VBRs
- f. Close choke
- g. Confirm shut-in
- h. Notify rig manager and Centennial company representative.
- i. Call Centennial drilling engineer
- j. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- II. Regroup and identify forward plan

3. With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately available:

- I. Sound alarm, alert crew.
- II. If possible to pick up high enough, pull string clear of the stack and follow Open Hole (III) scenario.
- III. If impossible to pick up high enough to pull the string clear of the stack:
 - a. Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close.
 - b. Space out drillstring with tool joint just beneath the upper pipe ram.
 - c. Open HCR
 - d. Shut-in utilizing upper VBRs.
 - e. Close choke
 - f. Confirm shut-in
 - g. Notify rig manager and Centennial company representative.
 - h. Call Centennial drilling engineer
 - i. Read and record:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- IV. Regroup and identify forward plan.

**** If annular is used to shut-in well and pressure builds to OR is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut-in.**



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CENTENNIAL RESOURCE DEVELOPMENT
LEE CO, NM

20" x 13-3/8" x 9-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO System
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head,
20" Landing Ring & Pin Down Mandrel Casing Hangers

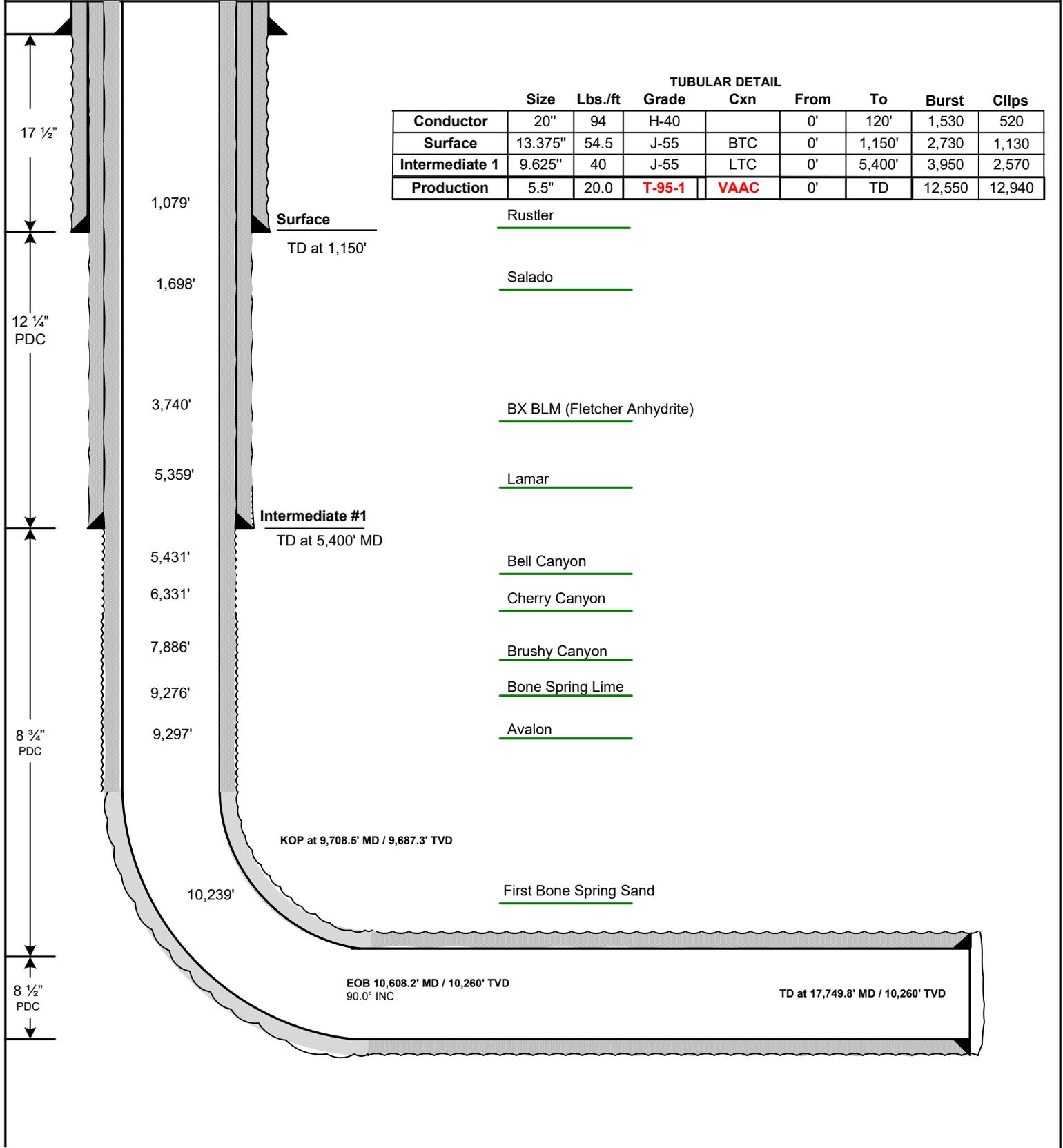
DRAWN	DLE	10JUN20
APPRV		

DRAWING NO. HBE0000338

CENTENNIAL

WBD

Well : Juliet Fed Com 312H
 Area : Solomon FM tgt: FBSG Sand
 County : Lea State : NM
 Location : Lot F Section 27, T24S, R34E; 2039' FNL & 2,146' FWL
 BHL : Lot C, Section 22, T24S, R34E; 100' FNL & 2,178' FWL
 KB Elev : 3,491.7' MSL KB : 26.5' AGL GL Elev : 3,465.2' MSL



Juliet Fed Com 312H

Centennial Drilling Plan for 3-Casing String Bone Springs Formation

13-3/8" x 9-5/8" x 5-1/2" Casing Design

1. Drill 17-1/2" surface hole to Total Depth with Spudder Rig and perform wellbore cleanup cycles.
2. Run and land 13-3/8" casing to Depth.
3. Cement 13-3/8" casing – cement to surface.
4. Cut / Dress Conductor and 13-3/8" casing as needed, weld on Cactus Multi-bowl system with baseplate supported by 20" conductor.
5. Test Weld to 70% of 13-3/8" casing collapse. Place nightcap with Pressure Gauge on wellhead and test seals to 70% of Casing Collapse.
6. Bleed Pressure if necessary and remove nightcap. Nipple up and test BOPE with test plug per Onshore Order 2.
7. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
8. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
9. Drill 12-1/4" Intermediate hole to 9-5/8" casing point. (Base Capitan Reef).
10. Remove wear bushing then run and land 9-5/8" Intermediate Casing with mandrel hanger in wellhead.
11. Cement 9-5/8 casing – cement to surface.
12. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
13. Install pack-off and test to 5000 psi for 15 minutes.
 - a. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
14. Install wear bushing then drill out 9-5/8" shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
15. Drill 8-3/4" Vertical hole to KOP – Trip out for Curve BHA.
16. Drill 8-3/4" Curve, landing in production interval – Trip for Lateral BHA.
17. Drill 8-1/2" Lateral to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" Production Casing.
18. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
19. Cement 5-1/2" Production string to surface.
20. Run in with wash tool and wash wellhead area – install pack-off and test to 5000psi for 15 minutes.
21. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
22. Test nightcap void to 5000psi for 30 minutes.



ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 210/ 2014
	Page: 9 / 113

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 504	
PURCHASER: ContiTech Oil & Marine Corp.		P.O. N°: 4500409659	
CONTITECH RUBBER order N°: 538236	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL N°: 67255	NOMINAL / ACTUAL LENGTH: 10,67 m / 10,77 m		
W.P. 68,9 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 60 min.	
Pressure test with water at ambient temperature <p style="text-align: center;">See attachment. (1 page)</p>			
↑ 10 mm = 10 Min. → 10 mm = 20 MPa			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	9251 9254	AISI 4130	A0579N
4 1/16" 10K API b.w. Flange end		AISI 4130	035608
Not Designed For Well Testing		API Spec 16 C	
		Temperature rate:"B"	
All metal parts are flawless			
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.			
COUNTRY OF ORIGIN HUNGARY/EU			
Date:	Inspector	Quality Control	
20. March 2014.		ContiTech Rubber Industrial Kft. Quality Control Dept. 	



CONTITECH RUBBER
Industrial Kft.

No:QC-DB- 210/ 2014

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ContiTech

Hose Data Sheet

CRI Order No.	538236
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500409659
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15



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

SUPO Data Report

03/31/2022

APD ID: 10400066803

Submission Date: 12/17/2020

Highlighted data reflects the most recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

JULIET_FEDERAL_COM__113H__Existing_Roads_20201101231331.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

JULIET_FEDERAL_COM__113H__Proposed_Roads_20201101231408.pdf

New road type: COLLECTOR

Length: 264 Feet

Width (ft.): 65

Max slope (%): 2

Max grade (%): 8

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Drainage and erosion will be constantly monitored to prevent compromising the road integrity, and to protect the surrounding native topography.

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 4

Offsite topsoil source description:

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:

Access miscellaneous information: FEE/FEE/FED Caliche will be hauled from the existing Basin pit located in the NW/4, Sec 6, T25S, R35E}. Pit has been identified for use in the attached exhibit.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Will be monitored and repaired as necessary.

Road Drainage Control Structures (DCS) description: Drainage and erosion will be constantly monitored to prevent compromising the road integrity, and to protect the surrounding native topography.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Juliet_Caliche_Freshwater_Route_20201101233440.pdf

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

JULIET_FEDERAL_COM__113H__Well_Proximity_Map_20201101233535.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production facility will be located on the N2 of Sec. 27, T24S-R34E where oil and gas sales will take place. Facility pad is 300' x 500'.

Production Facilities map:

ROMEO_JULIET_CTB_REV_07_22_20_20201101234109.pdf

Romeo_Juliet_CTB_Layout__1__20201101233618.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: STIMULATION

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 225000

Source volume (acre-feet): 29.00094667

Source volume (gal): 9450000

Water source and transportation map:

Juliet_Caliche_Freshwater_Route_20201101235057.pdf

Water source comments: Temporary surface lines, 2.35 miles, will be used to transport water for drilling and completion operations from private pit to Juliet development.- Existing freshwater pit in Sec 16-T24S-R34E will be utilized for fresh water and source location for recycled water is tbd.

New water well? N

New Water Well 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.):

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be hauled from the existing Basin pit located in the NW/4, Sec 6, T25S, R35E). Pit has been identified for use in the attached exhibit.

Construction Materials source location attachment:

Juliet_Caliche_Freshwater_Route_20201101235256.pdf

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: General trash/garbage

Amount of waste: 5000 pounds

Waste disposal frequency : Weekly

Safe containment description: Enclosed trash trailer.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Haul to state approved facility.

Waste type: SEWAGE

Waste content description: Grey water/Human waste

Amount of waste: 5000 gallons

Waste disposal frequency : Weekly

Safe containment description: Approved waste storage tanks with containment

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Haul to state approve facility.

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Waste type: DRILLING

Waste content description: Fresh water based drilling fluid.

Amount of waste: 1500 barrels

Waste disposal frequency : Weekly

Safe containment description: Steel tanks with plastic-lined containment berms

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Haul to state approved facility.

Waste type: DRILLING

Waste content description: Brine water based drilling fluid.

Amount of waste: 1500 barrels

Waste disposal frequency : Monthly

Safe containment description: Steel tanks with plastic-lined containment berms.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Haul to State approved facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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? Y

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Description of cuttings location 10205 cubic ft of waste, stored in steel tanks. Hauled off to a commercial state approved facility.

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?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

JULIET_FEDERAL_COM__113H__Location_Layout_20201102001041.pdf

JULIET_FEDERAL_COM__113H__Rig_Layout_20201102001054.pdf

Comments: FEE/FEE/FED

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: JULIET FED 27 SENW

Multiple Well Pad Number: 1

Recontouring attachment:

JULIET_FEDERAL_COM__113H__Reclamation_plat_20201102001145.pdf

Drainage/Erosion control construction: Culverts will be installed on an as needed basis.

Drainage/Erosion control reclamation: Water breaks will be added if needed, to prevent unnatural erosion and loss of vegetation.

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Well pad proposed disturbance (acres): 11.696	Well pad interim reclamation (acres): 6.328	Well pad long term disturbance (acres): 5.368
Road proposed disturbance (acres): 0.393	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.393
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0.103	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0.103
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 12.192	Total interim reclamation: 6.328	Total long term disturbance: 5.864

Disturbance Comments:

Reconstruction method: This pad will not be reclaimed as it is a drill island.

Topsoil redistribution: Topsoil will be stock piled along the north fill slope and south edge of the borrow area. Topsoil along the south edge of borrow area will be redistributed over the borrow area at this is a drill island and will not be reclaimed.

Soil treatment: Native soil 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: Surface disturbance will be limited to well site surveyed and extending south to borrow deficit quantities. Topsoil will be stored along the north edge of pad site and south edge of borrow area.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Will be windrowed to the edge of the disturbance and be utilized as a barrier from water run-off.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Will be windrowed to the edge of the disturbance and be utilized as a barrier from water run-off.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Will be windrowed to the edge of the disturbance and be utilized as a barrier from water run-off.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
-----------	-------------

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep: Prepare a 3-5 inch deep seedbed, with 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? N

Existing invasive species treatment description:

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.

Monitoring plan attachment:

Success standards: No primary or secondary noxious weed 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:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC	
Well Name: JULIET FEDERAL COM	Well Number: 312H

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:

Fee Owner: Quail Ranch, LLC

Phone: (432)853-2355

Surface use plan certification: YES

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Book 2144 Page 514

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Fee Owner Address: One Concho Center, 600 West Illinois Ave.

Email: jwood@concho.com

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: Onsite not required. FEE/FEE/FED

Use a previously conducted onsite? N

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Previous Onsite information:

Other SUPO Attachment

Juliet_Fed_Com_113H__114H__312H__513H__514H__713H_SUPO_20201102010339.pdf

JULIET FEDERAL COM 113H, 114H, 312H, 513H, 514H 713H

SURFACE USE PLAN

EXISTING ROADS (ROAD PLAT ATTACHED AS PLAT #1)

- The operator will improve or maintain existing road in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or the dust suppression chemicals on roadways.

DRIVING DIRECTIONS (ATTACHED AS PLAT #2)

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 311H, 312H, 111H & 112H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1813' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 132' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 19.6 MILES.

NEW OR RECONSTRUCTED ACCESS ROADS (ATTACHED AS PLAT #3) (CONSTRUCTION)

- There will be approximately 263.51' of new road construction for the well pad and facilities.
- Road Width: The access roads shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 65'. (see "Access Road ROW" plat attached)
- Maximum Grade: 3% - Actual - .68%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: None suggested.
- Major Cuts and Fills: 2:1 during drilling and completions.
- Type of surfacing Material: Caliche.

LOCATION OF EXISTING WELLS (DIAGRAM & SPREADSHEET ATTACHED AS PLAT #4)

- 1-mile radius map and well details attached.

LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES (WORK AREA DETAIL MAP ATTACHED AS PLAT #5)

- FACILITIES:
 - Production facility will be located on the N2 of Sec. 27, T24S-R34E where oil and gas sales will take place.
 - Oil and gas sales pipelines will be built to the north side of the facility pad.
 - Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting and nesting.
 - Facility will have a secondary containment at least 1.5 times the holding capacity of largest storage tank.

- All above ground structures will be painted non-reflective shale green for blending with the environment.
- The tank battery will be connected to the existing water gathering system in the field for permanent water disposal.

LOCATION OF PROPOSED ROW (WELL PLAT ATTACHED AS PLAT #6)

- Pipelines: 1 – buried SWD pipeline $12 \frac{3}{4}$” OD , approximately 1,475’, will be laid from facility in section 27, going north to an existing SWD line in the SW4 of section 22-T24S-R34E.
 - A ROW will be required for these pipelines.
 - All construction activity will be confined to the approved ROW.
 - Pipeline will stay within approved ROW.
- Powerlines: A powerline, will be installed from the well location to an existing Centennial takepoint tbd within section 22-T24S-R34E.
- Powerline will continue from the facility pad to each of the drill pads located in the N2 of section 27-T24S-R34E.
 - A ROW will be required for all OHE line.
 - All construction activity will be confined to the approved ROW.
 - Powerline will run parallel to the road and will stay within approved ROW.

LOCATION AND TYPES OF WATER (PLAT ATTACHED AS PLAT #7)

- Existing freshwater pit in Sec 16-T24S-R34E will be utilized for fresh water and source location for recycled water is tbd.
- Fresh water will be obtained from a private water source.
- Temporary expanding water surface line will be used to transport water for drilling and completion operations from the pipeline to the Juliet location along existing road a total of approx. 11,575’ from the well location to the existing frac pond in Sec 16-T24S-R34E.
 - Fresh water line will run parallel to the existing road, then north within an existing pipeline right of way.

CONSTRUCTION MATERIAL (ATTACHED AS PLAT #8)

- Caliche will be hauled from the existing Basin pit located in the NW/4, Sec 6, T25S, 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.
 - o Notification shall be given to BLM at 575/234-5909 at least 2 working days prior to commencing construction of access road and /or well pad.

METHODS FOR HANDLING WASTE (CONSTRUCTION)

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- After drilling and completion operations, trash, chemicals, salts frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tank and taken to an NMOCD approved disposal facility.

ANCILLARY FACILITIES

- None

WELL SITE LAYOUT (WELL SITE PLAT ATTACHED AS PLAT #9) (CONSTRUCTION)

- Well Site Plat
 - o Exterior well pad dimensions are 850' x 535'.
 - o Interior well pad dimensions from point of entry (well head) of the westernmost well are N-200', S-650', W-260', E-275'. The length to the east includes 30' spacing for next well on multi-well

pad (six wells). Total disturbance area needed for construction of well pad will be 12.192 acres.

- Topsoil placement is on the south where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices.

PROPOSED PAD CUT & FILL (PLAT ATTACHED AS PLAT #10)

- Cut and fill: will be minimal.

RIG LAYOUT (ATTACHED AS PLAT #11)

PLANS FOR SURFACE RECLAMATION (RECLAMATION PLAT ATTACHED AS PLAT #12)

RECLAMATION OBJECTIVES

- The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.
- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- IF CIRCUMSTANCES ALLOW, INTERIM RECLAMATION AND/OR FINAL RECLAMATION ACTIONS WILL BE COMPLETED. WE WILL GAIN WRITTEN PERMISSION FROM THE BLM IF MORE TIME IS NEEDED.

RECLAMATION WILL BE PERFORMED BY USING THE FOLLOWING PROCEDURES:

INTERIM RECLAMATION PROCEDURES

- Within 6 months, Centennial will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately 3.989 acres from the proposed size of 4.870 acres. the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not require for production. A plan will be submitted showing where interim reclamation will be completed to allow for safe operations, protection of the environment outside of drilled well, and following best Management practices found in the BLM "Gold Book".
- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to res-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Notice: Constructed slopes may be much steeper during drilling but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly re-spread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM#2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished.

Final Reclamation (well pad, buried pipelines, and powerlines, etc.)

- Prior to final reclamation procedures, the well pad, road and surrounding area will be cleared of material, trash, and equipment.

- All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- All disturbed areas, including roads, pipelines, pads, production facilities and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM see mixture (BLM #2), free of noxious weeds.
- Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding areas.

SURFACE OWNERSHIP

- Well pad and all other infrastructure is on Fee Surface (Quail Ranch)

OTHER INFORMATION (PLATS ATTACHED AS PLAT 13)

- On-site not required. FEE/FEE/FED.
- Erosion / Drainage: Drainage control system shall be constructed on the entire length of road using any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditched, culvert installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation. Fencing will remain in place while no activity is present and until backfilling takes place.
- Terrain: Landscape is flat
- Soil: Sandy loam
- Vegetation: Vegetation present in surrounding area includes mesquite, shrubs, and grass (needle-grass, burro grass, dropseed).

- Wildlife: No wildlife observed, but it is likely that deer, rabbits, coyotes and rodents pass through the area.
- Surface Water: No surface water concerns.
- Cave Karst: Low Karst area with no cave or visual signs of caves found.
- Watershed Protection: The entire perimeter of the well pad will be bermed to prevent oil, salt and other chemical contaminants from leaving the well pad.

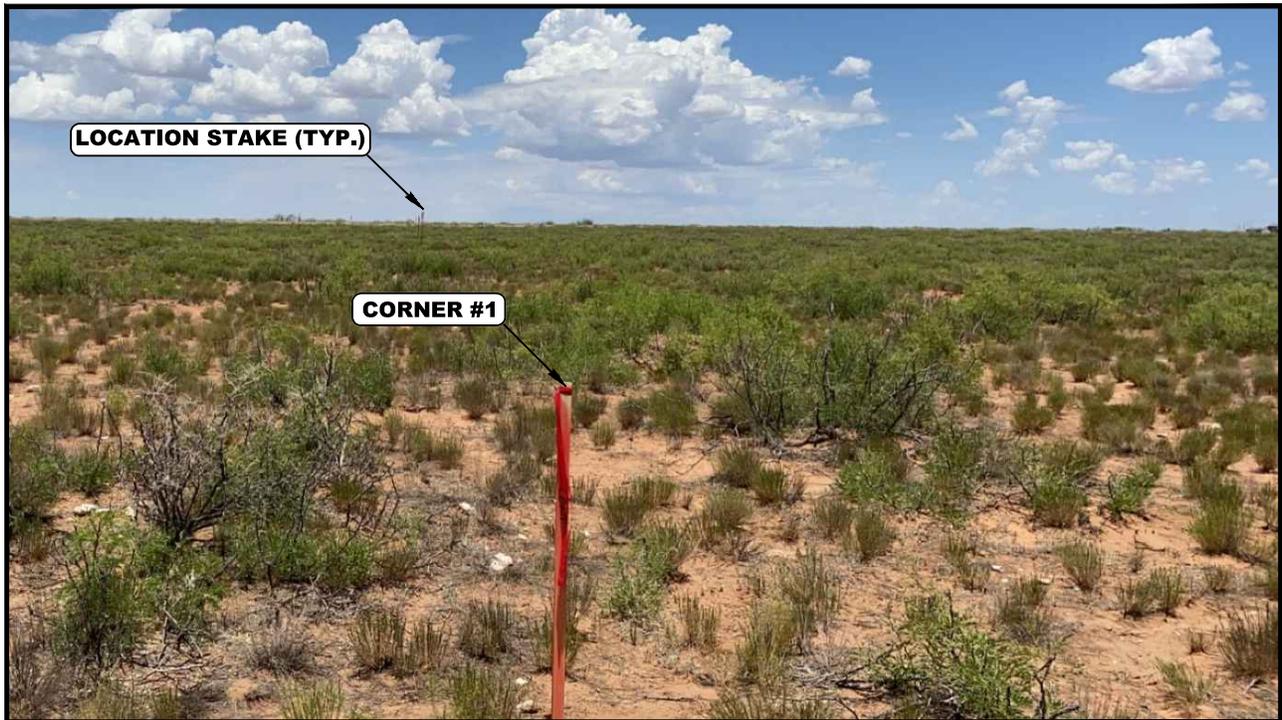


PHOTO: VIEW FROM CORNER #1 TO LOCATION STAKES

CAMERA ANGLE: NORTHERLY

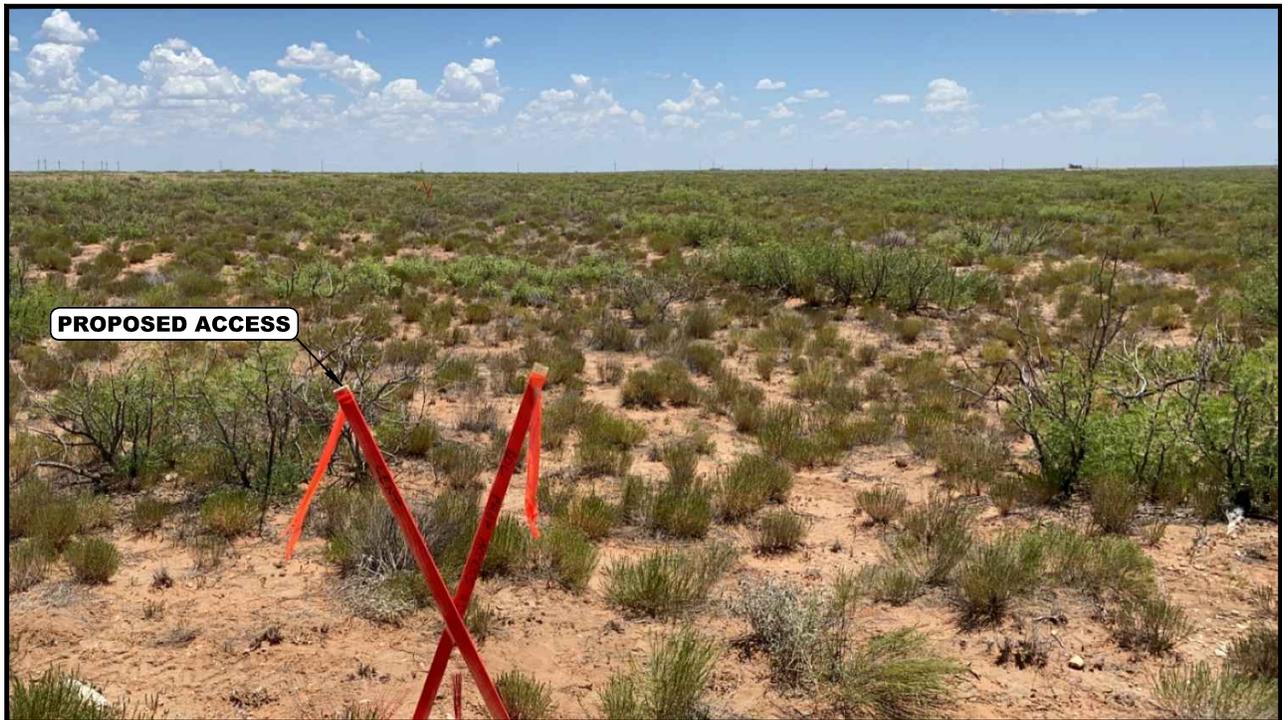


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS "A"

CAMERA ANGLE: EASTERLY

REV: 1 07-10-20 C.D. (PAD MOVE & ROAD RE-ROUTE)

CENTENNIAL RESOURCE PRODUCTION, LLC

JULIET FEDERAL COM
 113H, 114H, 312H, 513H, 514H & 713H
 SE 1/4 NW 1/4, SECTION 27, T24S, R34E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

TAKEN BY	N.R.	07-02-20	
DRAWN BY	S.T.O.	09-09-19	
LOCATION PHOTOS			PHOTO



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

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		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name JULIET FEDERAL COM			6 Well Number 113H
7 OGRID No.		8 Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			9 Elevation 3468.3'

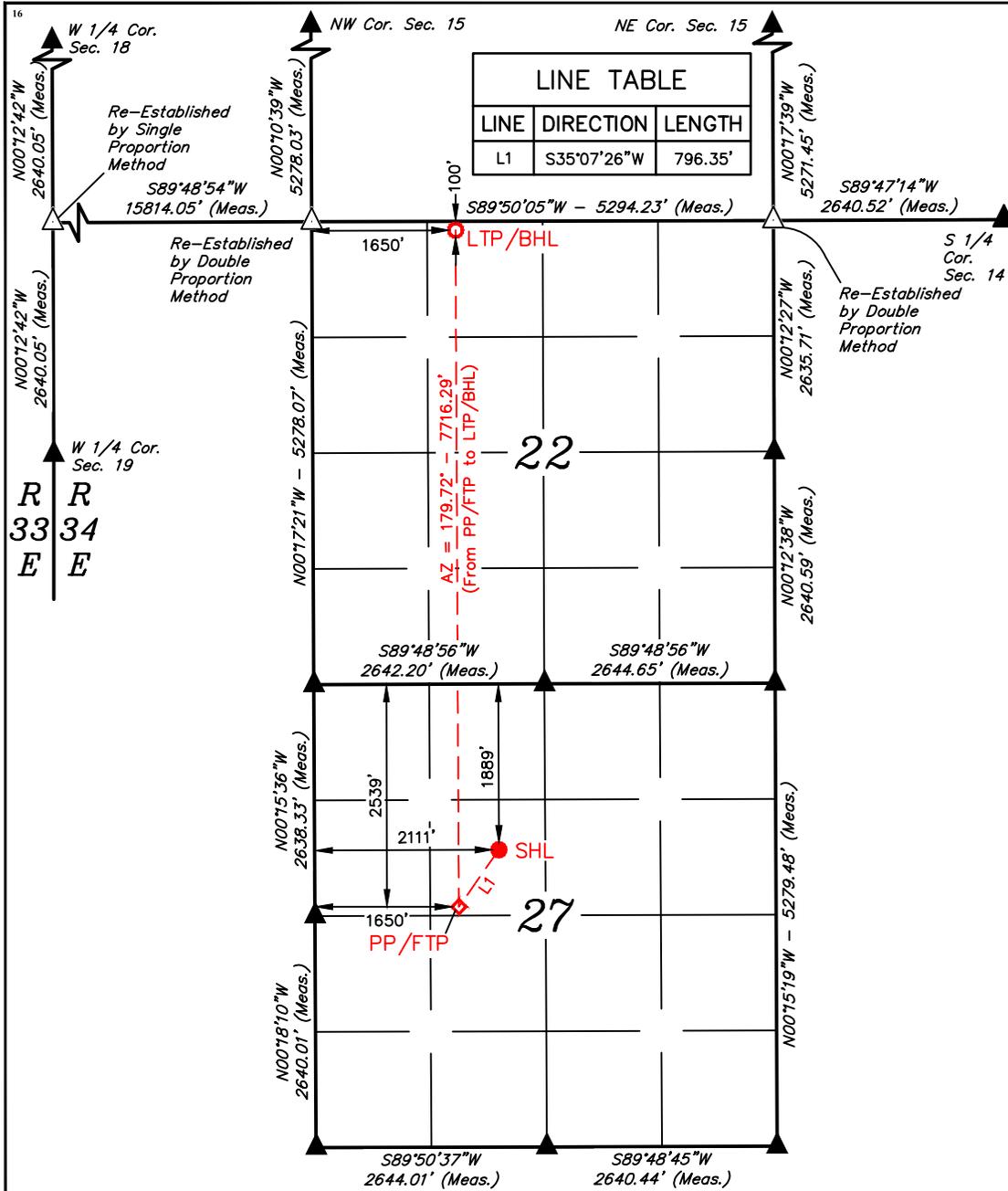
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	24S	34E		1889	NORTH	2111	WEST	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
C	22	24S	34E		100	NORTH	1650	WEST	LEA
12 Dedicated Acres 240		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.



17 OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

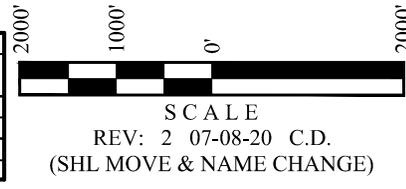
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

July 02, 2020

Date of Survey _____
Signature and Seal of Professional Surveyor: _____

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°11'26.13" (32.190593°) LONGITUDE = 103°27'34.36" (103.459544°) STATE PLANE NAD 83 (N.M. EAST) Y: 434170.32' X: 811644.46' UTM, NAD 83 (ZONE 13) Y: 11688303.05' X: 2116826.85'	NAD 83 (PP/FTP) LATITUDE = 32°11'19.71" (32.188808°) LONGITUDE = 103°27'39.72" (103.461033°) STATE PLANE NAD 83 (N.M. EAST) Y: 433517.17' X: 811189.09' UTM, NAD 83 (ZONE 13) Y: 11687647.17' X: 2116375.59'
NAD 83 (LTP/BHL) LATITUDE = 32°12'36.05" (32.210014°) LONGITUDE = 103°27'39.80" (103.461057°) STATE PLANE NAD 83 (N.M. EAST) Y: 441231.91' X: 811119.16' UTM, NAD 83 (ZONE 13) Y: 11695360.31' X: 2116257.83'	NOTE: • Distances referenced on plat to section lines are perpendicular. • Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



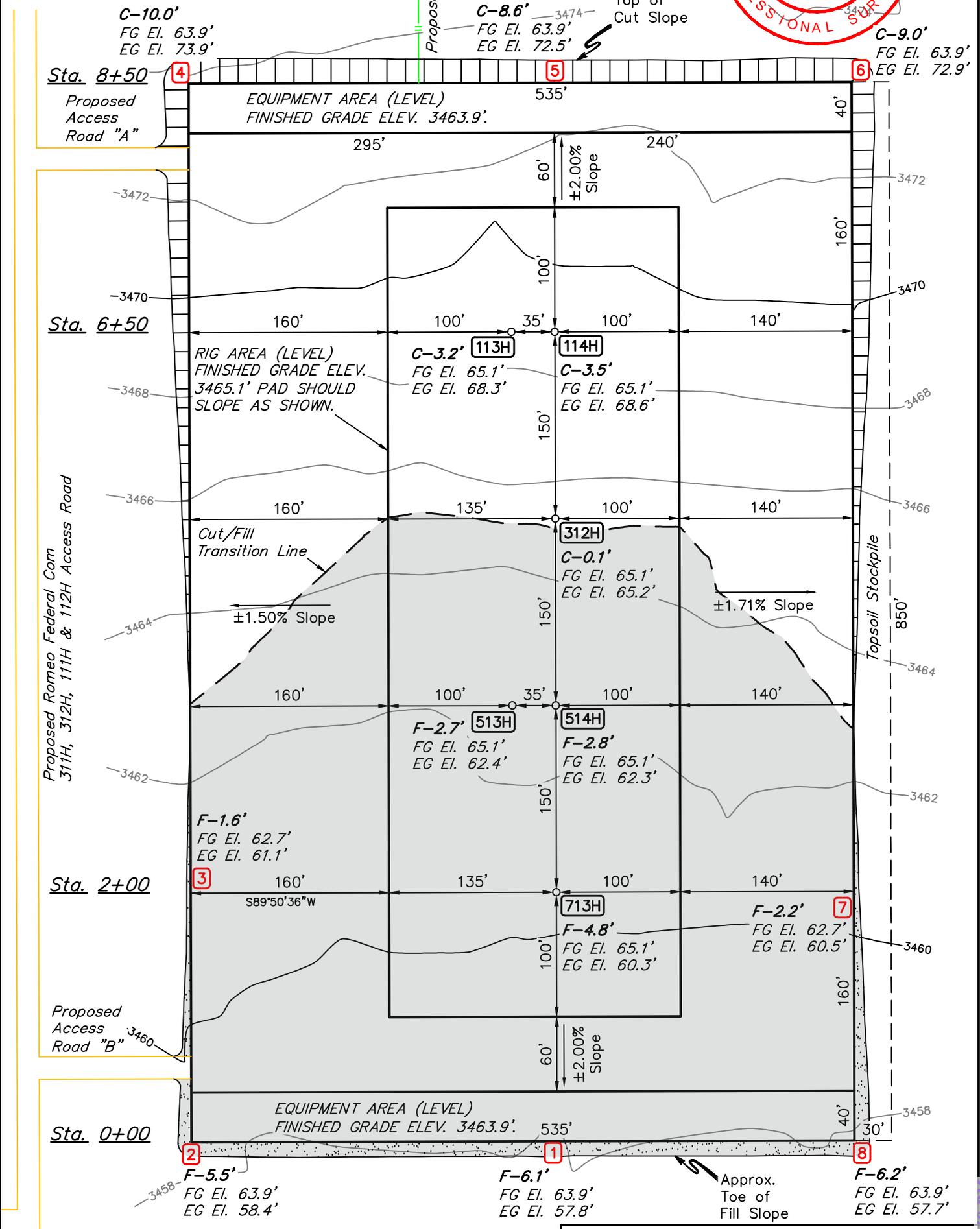
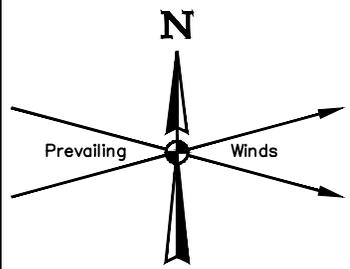
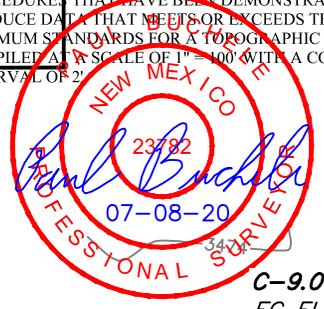
- = SURFACE HOLE LOCATION
- ◆ = PENETRATION POINT / FIRST TAKE POINT
- = LAST TAKE POINT / BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)



Certificate Number: _____

Proposed Romeo-Juliet Federal COM Area CTB

CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'



REV: 1 07-08-20 C.D. (PAD MOVE & WELL ADDITIONS)

NOTE: Earthwork Calculations Require Fill @ Some of the Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

- NOTES:
• Construct diversion ditches as needed.
• Contours shown at 2' intervals.
• Cut/Fill slopes are 2:1 (Typ.)
• Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
• Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

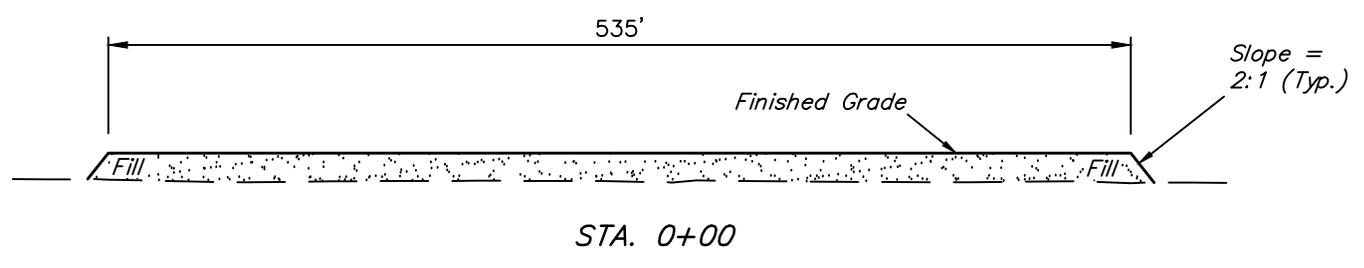
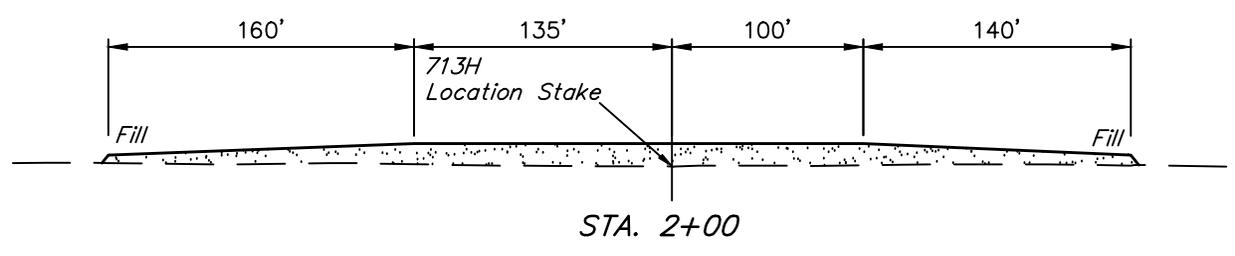
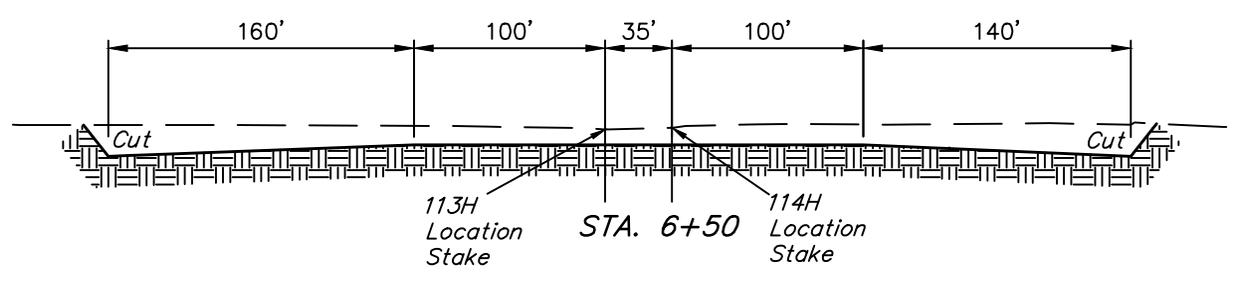
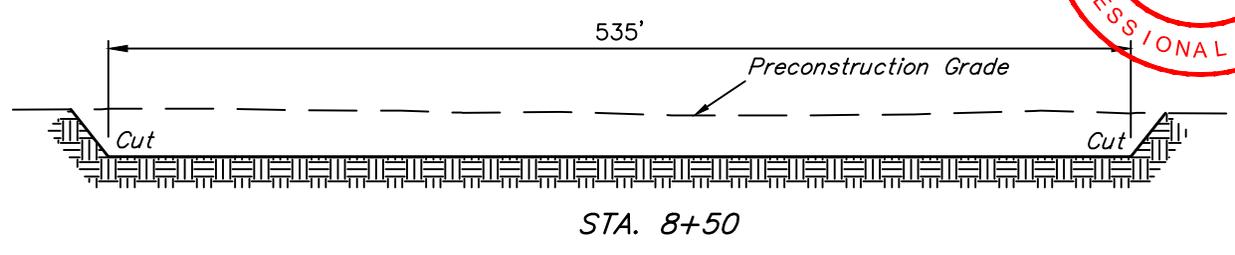
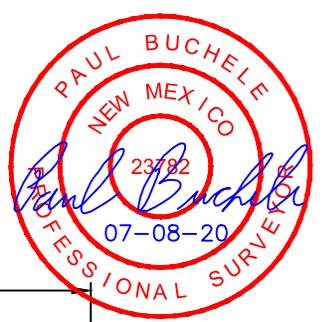
CENTENNIAL RESOURCE PRODUCTION, LLC
JULIET FEDERAL COM
113H, 114H, 312H, 513H, 514H & 713H
SE 1/4 NW 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

Table with 4 columns: SURVEYED BY, DRAWN BY, DATE, SCALE. Includes 'LOCATION LAYOUT' and 'FIGURE #1' labels.

X-Section Scale
 1" = 40'
 1" = 100'



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	6,000 Cu. Yds.
REMAINING LOCATION	36,990 Cu. Yds.
TOTAL CUT	42,990 Cu. Yds.
FILL	36,990 Cu. Yds.
EXCESS MATERIAL	6,000 Cu. Yds.
TOPSOIL	6,000 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS EXHIBIT "A")	NA	±11.696
65' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±131.84'	±0.197
65' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±131.67'	±0.196
30' WIDE FLOW LINE R-O-W DISTURBANCE	±150.03'	±0.103
TOTAL SURFACE USE AREA		±12.192

REV: 2 07-08-20 C.D. (PAD MOVE & WELL ADDITIONS)

NOTES:

- Fill quantity includes 5% for compaction.

CENTENNIAL RESOURCE PRODUCTION, LLC

JULIET FEDERAL COM
 113H, 114H, 312H, 513H, 514H & 713H
 SE 1/4 NW 1/4, SECTION 27, T24S, R34E, N.M.P.M.
 LEA COUNTY, NEW MEXICO



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

SURVEYED BY	N.R.	07-02-20	SCALE
DRAWN BY	C.IVIE	09-05-19	AS SHOWN
TYPICAL CROSS SECTIONS		FIGURE #2	



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

PWD Data Report

03/31/2022

APD ID: 10400066803

Submission Date: 12/17/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Well Type: OIL WELL

Well Work Type: Drill

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? N

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:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

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?

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? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe 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?

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

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? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

03/31/2022

APD ID: 10400066803

Submission Date: 12/17/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 312H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001841

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:

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 30-025-50410	² Pool Code 96434	³ Pool Name RED HILLS; BONE SPRING, NORTH
⁴ Property Code 318012	⁵ Property Name JULIET FEDERAL COM	
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁶ Well Number 312H
		⁹ Elevation 3465.2'

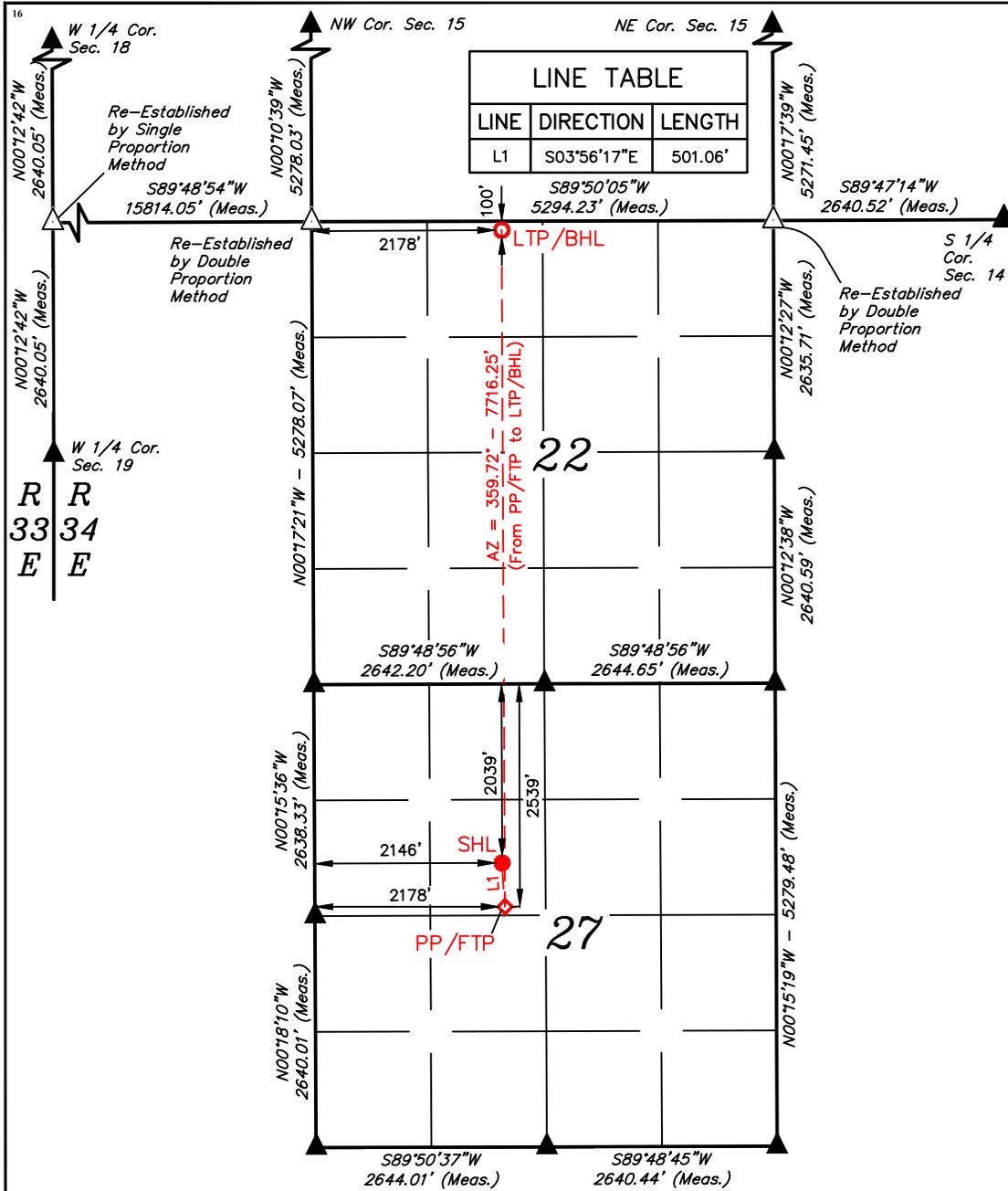
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	24S	34E		2039	NORTH	2146	WEST	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
C	22	24S	34E		100	NORTH	2178	WEST	LEA
¹² Dedicated Acres 240		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.



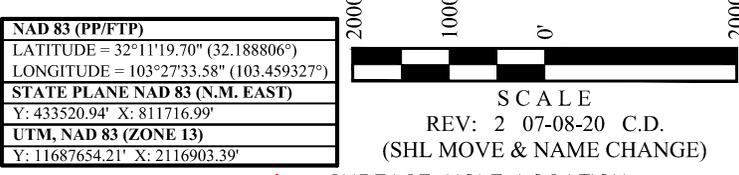
¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] **5/25/22**
Signature Date
Meghan Twele
Printed Name
meghan.twele@cdevinc.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

July 02, 2020
Date of Survey
Signature and Seal of Professional Surveyor:

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°11'24.65" (32.190181°) LONGITUDE = 103°27'33.95" (103.459432°) STATE PLANE NAD 83 (N.M. EAST) Y: 434020.59' X: 811680.49' UTM, NAD 83 (ZONE 13) Y: 11688153.56' X: 2116863.80'	NAD 83 (PP/FTP) LATITUDE = 32°11'19.70" (32.188806°) LONGITUDE = 103°27'33.58" (103.459327°) STATE PLANE NAD 83 (N.M. EAST) Y: 433520.94' X: 811716.99' UTM, NAD 83 (ZONE 13) Y: 11687654.21' X: 2116903.39'
NAD 83 (LTP/BHL) LATITUDE = 32°12'36.05" (32.210013°) LONGITUDE = 103°27'33.66" (103.459350°) STATE PLANE NAD 83 (N.M. EAST) Y: 441235.65' X: 811647.07' UTM, NAD 83 (ZONE 13) Y: 11695367.32' X: 2116785.63'	NOTE: • Distances referenced on plat to section lines are perpendicular. • Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



- = SURFACE HOLE LOCATION
- ◆ = PENETRATION POINT / FIRST TAKE POINT
- = LAST TAKE POINT / BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

Paul Buchele
New Mexico
Professional Surveyor
23782
07-08-20

Certificate Number:

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Centennial Resource Prod, LLC **OGRID:** 372165 **Date:** 4/5/2022

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Juliet Fed Com 113H		F-27-24S-34E	2109FNL&2111FWL	1800 BBL/D	2700 MCF/D	12,240 BBL/D
Juliet Fed Com 114H		F-27-24S-34E	2109FNL&2146FWL	1800 BBL/D	2700 MCF/D	12,240 BBL/D
Juliet Fed Com 312H	30-025-50410	F-27-24S-34E	2149FNL&2146FWL	3600 BBL/D	4320 MCF/D	18,000BBL/D

IV. Central Delivery Point Name: Raider 502/503/701 CDP [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Juliet Fed Com 113H		9/12/2023	9/20/2023	11/16/2023	12/18/2023	12/18/2023
Juliet Fed Com 114H		9/12/2023	9/20/2023	11/16/2023	12/18/2023	12/18/2023
Juliet Fed Com 312H	30-025-50410	8/8/2022	8/16/2022	12/8/2022	12/31/2022	12/31/2022

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Stewart MacCallum</i>
Printed Name: Stewart MacCallum
Title: Director of Marketing
E-mail Address: Stewart.MacCallum@cdevinc.com
Date: 5/23/2022
Phone: (720) 499-1458
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Centennial Resource Production, LLC (372165)

Natural Gas Management Plan Descriptions**VI. Separation Equipment:**

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:*Drilling*

During Centennial's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Centennial routes gas through a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Centennial's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Centennial's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Centennial's flare stacks, both currently installed and for future installation, are:

- 1) Appropriately sized and designed to ensure proper combustion efficiency.
- 2) Equipped with an automatic ignitor or continuous pilot.
- 3) Anchored and located at least 100 feet from the well and storage tanks.

Centennial's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

Centennial Resource Production, LLC (372165)

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

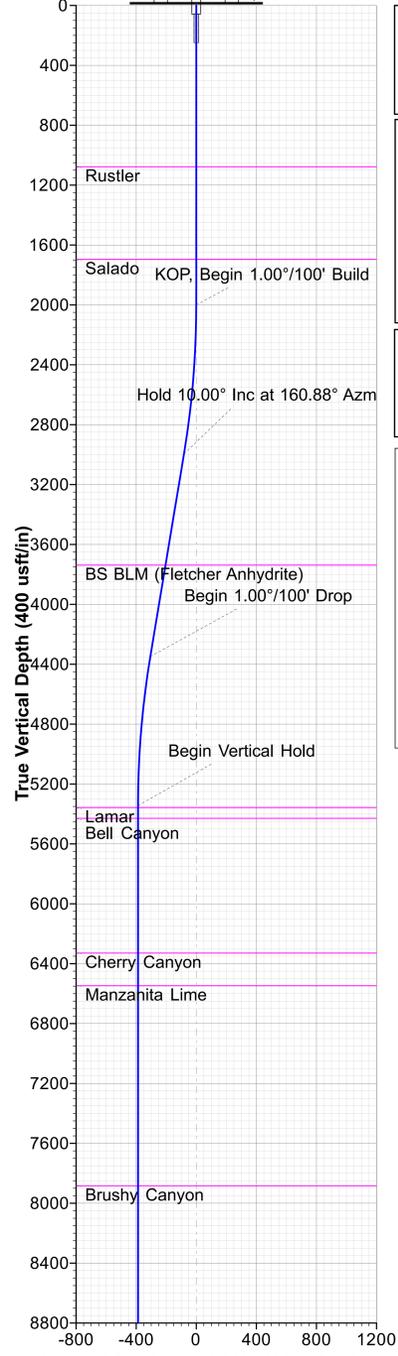
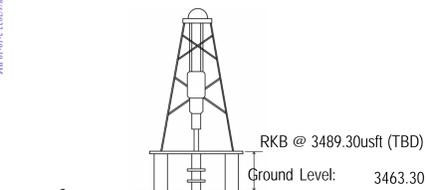
Measurement or estimation

Centennial measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

VIII. Best Management Practices:

Centennial utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

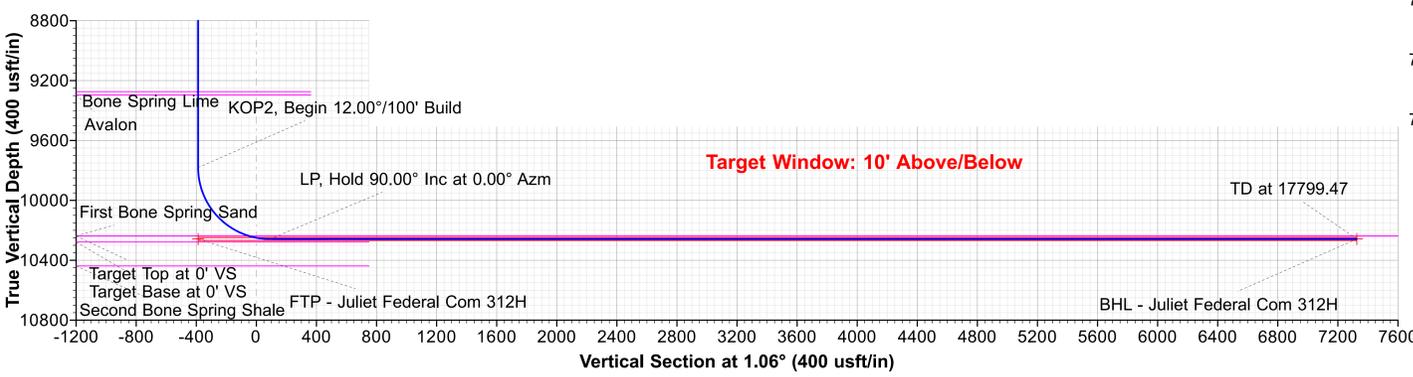
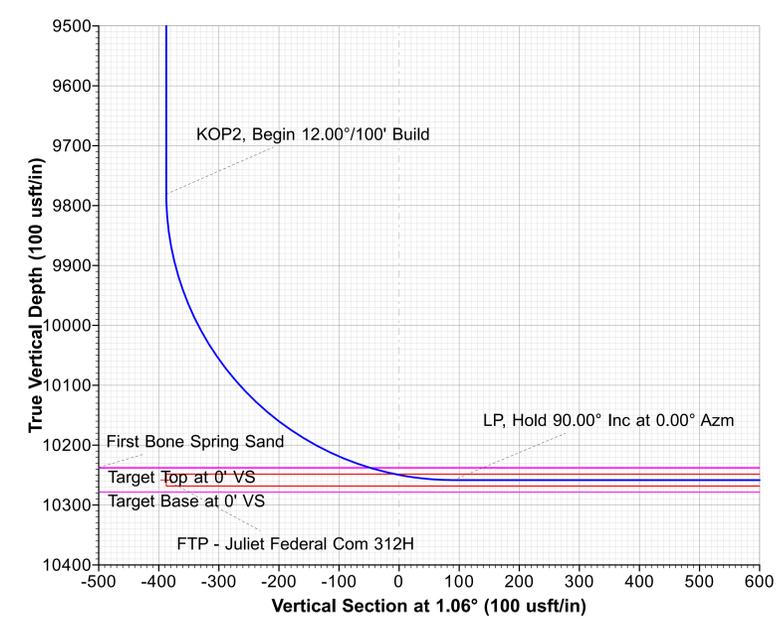


WELL DETAILS									
+N/-S	+E/-W	Northing	Ground Level	3463.30	Latitude	Longitude			
0.00	0.00	11688043.60	2116865.24	32° 11' 23.561872 N	103° 27' 33.955618 W				

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 1.00°/100' Build
3	3000.00	10.00	160.88	2994.93	-82.24	28.51	1.00	160.883	-81.70		Hold 10.00° Inc at 160.88° Azm
4	4374.77	10.00	160.88	4348.82	-307.81	106.69	0.00	0.000	-305.78		Begin 1.00°/100' Drop
5	5374.77	0.00	0.00	5343.75	-390.05	135.20	1.00	180.000	-387.49		Begin Vertical Hold
6	9811.86	0.00	0.00	9780.84	-390.05	135.20	0.00	0.000	-387.49		KOP2, Begin 12.00°/100' Build
7	10561.86	90.00	0.00	10258.30	87.41	135.21	12.00	0.001	89.90		LP, Hold 90.00° Inc at 0.00° Azm
8	17799.47	90.00	0.00	10258.30	7325.02	135.39	0.00	0.000	7326.27	BHL - Juliet Federal Com 312H	TD at 17799.47

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
BHL - Juliet Federal Com 312H	10258.30	7325.02	135.39	11695368.78	2116895.67	32° 12' 36.044397 N	103° 27' 32.379532 W		
FTP - Juliet Federal Com 312H	10258.30	-390.05	135.20	11687655.58	2117005.99	32° 11' 19.702228 N	103° 27' 32.382453 W		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1077.30	1077.30	Rustler
1696.30	1696.30	Salado
3738.30	3754.84	BS BLM (Fletcher Anhydrite)
5357.30	5388.32	Lamar
5429.30	5460.32	Bell Canyon
6329.30	6360.32	Cherry Canyon
6547.30	6578.32	Manzanita Lime
7884.30	7915.32	Brushy Canyon
9274.30	9305.32	Bone Spring Lime
9295.30	9326.32	Avalon
10237.30	10419.71	First Bone Spring Sand
10238.30	10423.16	Target Top at 0' VS



Map System: Universal Transverse Mercator (US Survey Feet)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: Zone 13N (108 W to 102 W)

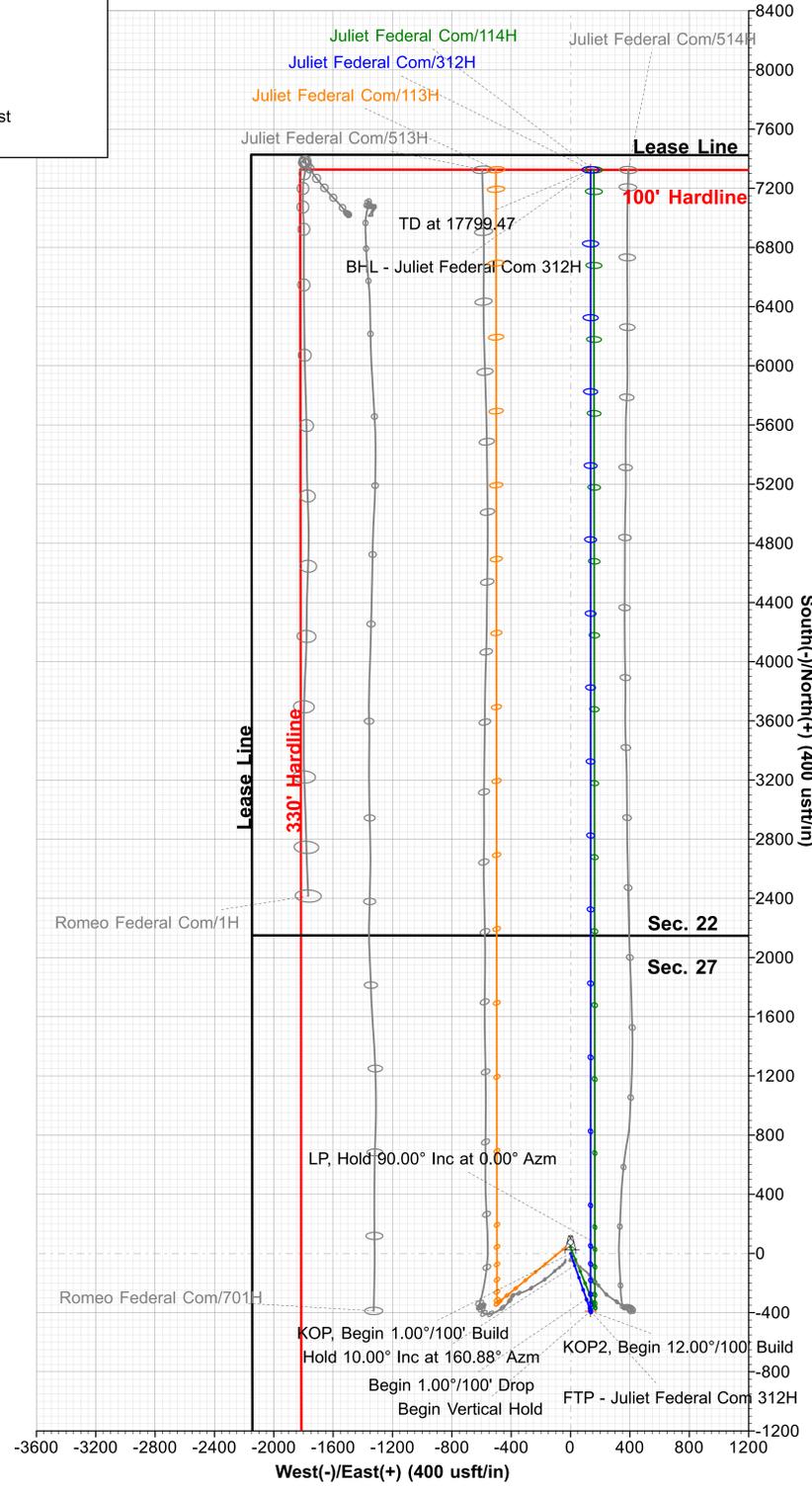
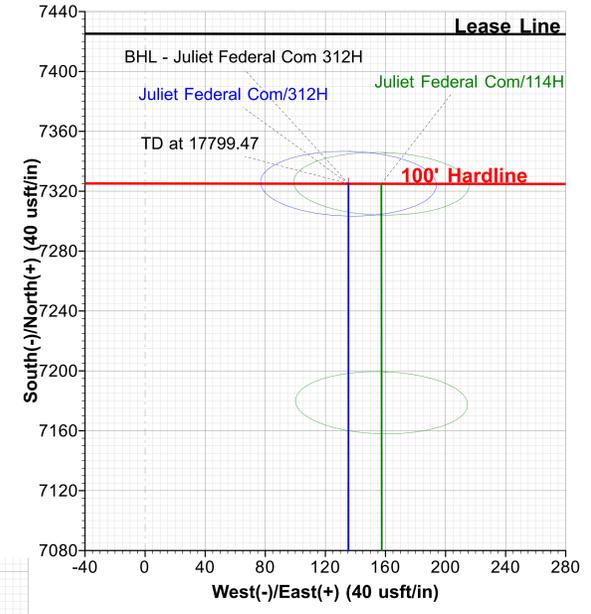
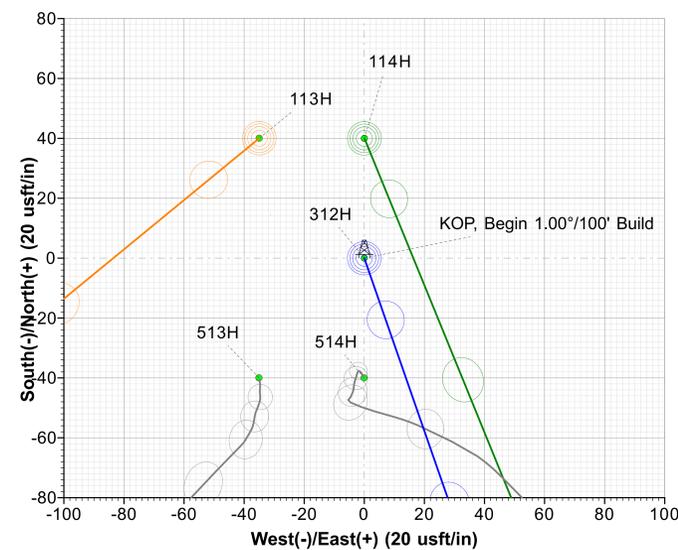
Local Origin: Well 312H, True North

Latitude: 32° 11' 23.561872 N
 Longitude: 103° 27' 33.955618 W

Grid East: 2116865.24
 Grid North: 11688043.60
 Scale Factor: 1.000

Geomagnetic Model: MVHD
 Sample Date: 30-May-22
 Magnetic Declination: 6.310°
 Dip Angle from Horizontal: 59.742°
 Magnetic Field Strength: 47507.24425698nT

To convert a Magnetic Direction to a Grid Direction, Add 5.489°
 To convert a Magnetic Direction to a True Direction, Add 6.310° East
 To convert a True Direction to a Grid Direction, Subtract 0.821°





Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Juliet Federal Com
312H**

OH

Plan: Plan 1 03-30-22

Standard Planning Report

30 March, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Project	Lea County, NM (NAD83 - UTM Zone 13)		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		Using geodetic scale factor

Site	Juliet Federal Com				
Site Position:		Northing:	11,688,003.16 usft	Latitude:	32° 11' 23.166580 N
From:	Map	Easting:	2,116,830.78 usft	Longitude:	103° 27' 34.363364 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	312H					
Well Position	+N/-S	39.95 usft	Northing:	11,688,043.60 usft	Latitude:	32° 11' 23.561872 N
	+E/-W	35.04 usft	Easting:	2,116,865.24 usft	Longitude:	103° 27' 33.955619 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,463.30 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	5/30/2022	6.310	59.742	47,507.24425699

Design	Plan 1 03-30-22				
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Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	1.06	

Plan Survey Tool Program	Date	3/30/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,799.47	Plan 1 03-30-22 (OH)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Mult	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,000.00	10.00	160.88	2,994.93	-82.24	28.51	1.00	1.00	0.00	160.883	
4,374.77	10.00	160.88	4,348.82	-307.81	106.69	0.00	0.00	0.00	0.000	
5,374.77	0.00	0.00	5,343.75	-390.05	135.20	1.00	-1.00	0.00	180.000	
9,811.86	0.00	0.00	9,780.84	-390.05	135.20	0.00	0.00	0.00	0.000	
10,561.86	90.00	0.00	10,258.31	87.41	135.21	12.00	12.00	0.00	0.001	
17,799.47	90.00	0.00	10,258.30	7,325.02	135.39	0.00	0.00	0.00	0.000	BHL - Juliet Federa



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,077.30	0.00	0.00	1,077.30	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,696.30	0.00	0.00	1,696.30	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.00°/100' Build									
2,100.00	1.00	160.88	2,099.99	-0.82	0.29	-0.82	1.00	1.00	0.00
2,200.00	2.00	160.88	2,199.96	-3.30	1.14	-3.28	1.00	1.00	0.00
2,300.00	3.00	160.88	2,299.86	-7.42	2.57	-7.37	1.00	1.00	0.00
2,400.00	4.00	160.88	2,399.68	-13.19	4.57	-13.10	1.00	1.00	0.00
2,500.00	5.00	160.88	2,499.37	-20.60	7.14	-20.46	1.00	1.00	0.00
2,600.00	6.00	160.88	2,598.90	-29.66	10.28	-29.46	1.00	1.00	0.00
2,700.00	7.00	160.88	2,698.26	-40.35	13.99	-40.09	1.00	1.00	0.00
2,800.00	8.00	160.88	2,797.40	-52.68	18.26	-52.34	1.00	1.00	0.00
2,900.00	9.00	160.88	2,896.30	-66.65	23.10	-66.21	1.00	1.00	0.00
3,000.00	10.00	160.88	2,994.93	-82.24	28.51	-81.70	1.00	1.00	0.00
Hold 10.00° Inc at 160.88° Azm									
3,100.00	10.00	160.88	3,093.41	-98.65	34.19	-98.00	0.00	0.00	0.00
3,200.00	10.00	160.88	3,191.89	-115.06	39.88	-114.30	0.00	0.00	0.00
3,300.00	10.00	160.88	3,290.37	-131.47	45.57	-130.60	0.00	0.00	0.00
3,400.00	10.00	160.88	3,388.85	-147.87	51.25	-146.90	0.00	0.00	0.00
3,500.00	10.00	160.88	3,487.33	-164.28	56.94	-163.20	0.00	0.00	0.00
3,600.00	10.00	160.88	3,585.82	-180.69	62.63	-179.50	0.00	0.00	0.00
3,700.00	10.00	160.88	3,684.30	-197.10	68.31	-195.80	0.00	0.00	0.00
3,754.84	10.00	160.88	3,738.30	-206.09	71.43	-204.74	0.00	0.00	0.00
BS BLM (Fletcher Anhydrite)									
3,800.00	10.00	160.88	3,782.78	-213.50	74.00	-212.10	0.00	0.00	0.00
3,900.00	10.00	160.88	3,881.26	-229.91	79.69	-228.40	0.00	0.00	0.00
4,000.00	10.00	160.88	3,979.74	-246.32	85.38	-244.70	0.00	0.00	0.00
4,100.00	10.00	160.88	4,078.22	-262.72	91.06	-261.00	0.00	0.00	0.00
4,200.00	10.00	160.88	4,176.70	-279.13	96.75	-277.30	0.00	0.00	0.00
4,300.00	10.00	160.88	4,275.18	-295.54	102.44	-293.59	0.00	0.00	0.00
4,374.77	10.00	160.88	4,348.82	-307.81	106.69	-305.78	0.00	0.00	0.00
Begin 1.00°/100' Drop									
4,400.00	9.75	160.88	4,373.67	-311.89	108.11	-309.84	1.00	-1.00	0.00
4,500.00	8.75	160.88	4,472.37	-327.08	113.37	-324.93	1.00	-1.00	0.00
4,600.00	7.75	160.88	4,571.33	-340.63	118.07	-338.39	1.00	-1.00	0.00
4,700.00	6.75	160.88	4,670.53	-352.55	122.20	-350.23	1.00	-1.00	0.00
4,800.00	5.75	160.88	4,769.94	-362.83	125.76	-360.45	1.00	-1.00	0.00
4,900.00	4.75	160.88	4,869.52	-371.48	128.76	-369.03	1.00	-1.00	0.00
5,000.00	3.75	160.88	4,969.24	-378.47	131.18	-375.99	1.00	-1.00	0.00
5,100.00	2.75	160.88	5,069.08	-383.83	133.04	-381.30	1.00	-1.00	0.00
5,200.00	1.75	160.88	5,169.00	-387.53	134.32	-384.98	1.00	-1.00	0.00
5,300.00	0.75	160.88	5,268.98	-389.59	135.04	-387.03	1.00	-1.00	0.00
5,374.77	0.00	0.00	5,343.75	-390.05	135.20	-387.49	1.00	-1.00	0.00
Begin Vertical Hold									
5,388.32	0.00	0.00	5,357.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Lamar									
5,400.00	0.00	0.00	5,368.98	-390.05	135.20	-387.49	0.00	0.00	0.00
5,460.32	0.00	0.00	5,429.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Bell Canyon									
5,500.00	0.00	0.00	5,468.98	-390.05	135.20	-387.49	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,600.00	0.00	0.00	5,568.98	-390.05	135.20	-387.49	0.00	0.00	0.00
5,700.00	0.00	0.00	5,668.98	-390.05	135.20	-387.49	0.00	0.00	0.00
5,800.00	0.00	0.00	5,768.98	-390.05	135.20	-387.49	0.00	0.00	0.00
5,900.00	0.00	0.00	5,868.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,000.00	0.00	0.00	5,968.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,100.00	0.00	0.00	6,068.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,200.00	0.00	0.00	6,168.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,300.00	0.00	0.00	6,268.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,360.32	0.00	0.00	6,329.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Cherry Canyon									
6,400.00	0.00	0.00	6,368.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,500.00	0.00	0.00	6,468.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,578.32	0.00	0.00	6,547.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Manzanita Lime									
6,600.00	0.00	0.00	6,568.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,700.00	0.00	0.00	6,668.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,800.00	0.00	0.00	6,768.98	-390.05	135.20	-387.49	0.00	0.00	0.00
6,900.00	0.00	0.00	6,868.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,000.00	0.00	0.00	6,968.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,100.00	0.00	0.00	7,068.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,200.00	0.00	0.00	7,168.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,300.00	0.00	0.00	7,268.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,400.00	0.00	0.00	7,368.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,500.00	0.00	0.00	7,468.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,600.00	0.00	0.00	7,568.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,700.00	0.00	0.00	7,668.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,800.00	0.00	0.00	7,768.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,900.00	0.00	0.00	7,868.98	-390.05	135.20	-387.49	0.00	0.00	0.00
7,915.32	0.00	0.00	7,884.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Brushy Canyon									
8,000.00	0.00	0.00	7,968.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,100.00	0.00	0.00	8,068.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,200.00	0.00	0.00	8,168.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,300.00	0.00	0.00	8,268.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,400.00	0.00	0.00	8,368.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,500.00	0.00	0.00	8,468.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,600.00	0.00	0.00	8,568.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,700.00	0.00	0.00	8,668.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,800.00	0.00	0.00	8,768.98	-390.05	135.20	-387.49	0.00	0.00	0.00
8,900.00	0.00	0.00	8,868.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,000.00	0.00	0.00	8,968.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,100.00	0.00	0.00	9,068.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,200.00	0.00	0.00	9,168.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,300.00	0.00	0.00	9,268.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,305.32	0.00	0.00	9,274.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Bone Spring Lime									
9,326.32	0.00	0.00	9,295.30	-390.05	135.20	-387.49	0.00	0.00	0.00
Avalon									
9,400.00	0.00	0.00	9,368.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,500.00	0.00	0.00	9,468.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,600.00	0.00	0.00	9,568.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,700.00	0.00	0.00	9,668.98	-390.05	135.20	-387.49	0.00	0.00	0.00
9,800.00	0.00	0.00	9,768.98	-390.05	135.20	-387.49	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,811.86	0.00	0.00	9,780.84	-390.05	135.20	-387.49	0.00	0.00	0.00	
KOP2, Begin 12.00°/100° Build										
9,900.00	10.58	0.00	9,868.48	-381.94	135.20	-379.38	12.00	12.00	0.00	
10,000.00	22.58	0.00	9,964.15	-353.46	135.20	-350.90	12.00	12.00	0.00	
10,100.00	34.58	0.00	10,051.80	-305.72	135.20	-303.17	12.00	12.00	0.00	
10,200.00	46.58	0.00	10,127.62	-240.79	135.20	-238.25	12.00	12.00	0.00	
10,300.00	58.58	0.00	10,188.28	-161.52	135.20	-158.99	12.00	12.00	0.00	
10,400.00	70.58	0.00	10,231.13	-71.37	135.20	-68.86	12.00	12.00	0.00	
10,419.71	72.94	0.00	10,237.30	-52.65	135.20	-50.14	12.00	12.00	0.00	
First Bone Spring Sand										
10,423.16	73.36	0.00	10,238.30	-49.35	135.20	-46.84	12.00	12.00	0.00	
Target Top at 0° VS										
10,500.00	82.58	0.00	10,254.30	25.72	135.21	28.22	12.00	12.00	0.00	
10,561.86	90.00	0.00	10,258.31	87.41	135.21	89.90	12.00	12.00	0.00	
LP, Hold 90.00° Inc at 0.00° Azm										
10,600.00	90.00	0.00	10,258.31	125.55	135.21	128.03	0.00	0.00	0.00	
10,700.00	90.00	0.00	10,258.30	225.55	135.21	228.01	0.00	0.00	0.00	
10,800.00	90.00	0.00	10,258.30	325.55	135.21	327.99	0.00	0.00	0.00	
10,900.00	90.00	0.00	10,258.30	425.55	135.22	427.98	0.00	0.00	0.00	
11,000.00	90.00	0.00	10,258.30	525.55	135.22	527.96	0.00	0.00	0.00	
11,100.00	90.00	0.00	10,258.30	625.55	135.22	627.94	0.00	0.00	0.00	
11,200.00	90.00	0.00	10,258.30	725.55	135.22	727.92	0.00	0.00	0.00	
11,300.00	90.00	0.00	10,258.30	825.55	135.23	827.91	0.00	0.00	0.00	
11,400.00	90.00	0.00	10,258.30	925.55	135.23	927.89	0.00	0.00	0.00	
11,500.00	90.00	0.00	10,258.30	1,025.55	135.23	1,027.87	0.00	0.00	0.00	
11,600.00	90.00	0.00	10,258.30	1,125.55	135.23	1,127.86	0.00	0.00	0.00	
11,700.00	90.00	0.00	10,258.30	1,225.55	135.24	1,227.84	0.00	0.00	0.00	
11,800.00	90.00	0.00	10,258.30	1,325.55	135.24	1,327.82	0.00	0.00	0.00	
11,900.00	90.00	0.00	10,258.30	1,425.55	135.24	1,427.81	0.00	0.00	0.00	
12,000.00	90.00	0.00	10,258.30	1,525.55	135.24	1,527.79	0.00	0.00	0.00	
12,100.00	90.00	0.00	10,258.30	1,625.55	135.25	1,627.77	0.00	0.00	0.00	
12,200.00	90.00	0.00	10,258.30	1,725.55	135.25	1,727.75	0.00	0.00	0.00	
12,300.00	90.00	0.00	10,258.30	1,825.55	135.25	1,827.74	0.00	0.00	0.00	
12,400.00	90.00	0.00	10,258.30	1,925.55	135.26	1,927.72	0.00	0.00	0.00	
12,500.00	90.00	0.00	10,258.30	2,025.55	135.26	2,027.70	0.00	0.00	0.00	
12,600.00	90.00	0.00	10,258.30	2,125.55	135.26	2,127.69	0.00	0.00	0.00	
12,700.00	90.00	0.00	10,258.30	2,225.55	135.26	2,227.67	0.00	0.00	0.00	
12,800.00	90.00	0.00	10,258.30	2,325.55	135.27	2,327.65	0.00	0.00	0.00	
12,900.00	90.00	0.00	10,258.30	2,425.55	135.27	2,427.63	0.00	0.00	0.00	
13,000.00	90.00	0.00	10,258.30	2,525.55	135.27	2,527.62	0.00	0.00	0.00	
13,100.00	90.00	0.00	10,258.30	2,625.55	135.27	2,627.60	0.00	0.00	0.00	
13,200.00	90.00	0.00	10,258.30	2,725.55	135.28	2,727.58	0.00	0.00	0.00	
13,300.00	90.00	0.00	10,258.30	2,825.55	135.28	2,827.57	0.00	0.00	0.00	
13,400.00	90.00	0.00	10,258.30	2,925.55	135.28	2,927.55	0.00	0.00	0.00	
13,500.00	90.00	0.00	10,258.30	3,025.55	135.28	3,027.53	0.00	0.00	0.00	
13,600.00	90.00	0.00	10,258.30	3,125.55	135.29	3,127.52	0.00	0.00	0.00	
13,700.00	90.00	0.00	10,258.30	3,225.55	135.29	3,227.50	0.00	0.00	0.00	
13,800.00	90.00	0.00	10,258.30	3,325.55	135.29	3,327.48	0.00	0.00	0.00	
13,900.00	90.00	0.00	10,258.30	3,425.55	135.29	3,427.46	0.00	0.00	0.00	
14,000.00	90.00	0.00	10,258.30	3,525.55	135.30	3,527.45	0.00	0.00	0.00	
14,100.00	90.00	0.00	10,258.30	3,625.55	135.30	3,627.43	0.00	0.00	0.00	
14,200.00	90.00	0.00	10,258.30	3,725.55	135.30	3,727.41	0.00	0.00	0.00	
14,300.00	90.00	0.00	10,258.30	3,825.55	135.30	3,827.40	0.00	0.00	0.00	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,400.00	90.00	0.00	10,258.30	3,925.55	135.31	3,927.38	0.00	0.00	0.00
14,500.00	90.00	0.00	10,258.30	4,025.55	135.31	4,027.36	0.00	0.00	0.00
14,600.00	90.00	0.00	10,258.30	4,125.55	135.31	4,127.35	0.00	0.00	0.00
14,700.00	90.00	0.00	10,258.30	4,225.55	135.31	4,227.33	0.00	0.00	0.00
14,800.00	90.00	0.00	10,258.30	4,325.55	135.32	4,327.31	0.00	0.00	0.00
14,900.00	90.00	0.00	10,258.30	4,425.55	135.32	4,427.29	0.00	0.00	0.00
15,000.00	90.00	0.00	10,258.30	4,525.55	135.32	4,527.28	0.00	0.00	0.00
15,100.00	90.00	0.00	10,258.30	4,625.55	135.32	4,627.26	0.00	0.00	0.00
15,200.00	90.00	0.00	10,258.30	4,725.55	135.33	4,727.24	0.00	0.00	0.00
15,300.00	90.00	0.00	10,258.30	4,825.55	135.33	4,827.23	0.00	0.00	0.00
15,400.00	90.00	0.00	10,258.30	4,925.55	135.33	4,927.21	0.00	0.00	0.00
15,500.00	90.00	0.00	10,258.30	5,025.55	135.34	5,027.19	0.00	0.00	0.00
15,600.00	90.00	0.00	10,258.30	5,125.55	135.34	5,127.18	0.00	0.00	0.00
15,700.00	90.00	0.00	10,258.30	5,225.55	135.34	5,227.16	0.00	0.00	0.00
15,800.00	90.00	0.00	10,258.30	5,325.55	135.34	5,327.14	0.00	0.00	0.00
15,900.00	90.00	0.00	10,258.30	5,425.55	135.35	5,427.12	0.00	0.00	0.00
16,000.00	90.00	0.00	10,258.30	5,525.55	135.35	5,527.11	0.00	0.00	0.00
16,100.00	90.00	0.00	10,258.30	5,625.55	135.35	5,627.09	0.00	0.00	0.00
16,200.00	90.00	0.00	10,258.30	5,725.55	135.35	5,727.07	0.00	0.00	0.00
16,300.00	90.00	0.00	10,258.30	5,825.55	135.36	5,827.06	0.00	0.00	0.00
16,400.00	90.00	0.00	10,258.30	5,925.55	135.36	5,927.04	0.00	0.00	0.00
16,500.00	90.00	0.00	10,258.30	6,025.55	135.36	6,027.02	0.00	0.00	0.00
16,600.00	90.00	0.00	10,258.30	6,125.55	135.36	6,127.00	0.00	0.00	0.00
16,700.00	90.00	0.00	10,258.30	6,225.55	135.37	6,226.99	0.00	0.00	0.00
16,800.00	90.00	0.00	10,258.30	6,325.55	135.37	6,326.97	0.00	0.00	0.00
16,900.00	90.00	0.00	10,258.30	6,425.55	135.37	6,426.95	0.00	0.00	0.00
17,000.00	90.00	0.00	10,258.30	6,525.55	135.37	6,526.94	0.00	0.00	0.00
17,100.00	90.00	0.00	10,258.30	6,625.55	135.38	6,626.92	0.00	0.00	0.00
17,200.00	90.00	0.00	10,258.30	6,725.55	135.38	6,726.90	0.00	0.00	0.00
17,300.00	90.00	0.00	10,258.30	6,825.55	135.38	6,826.89	0.00	0.00	0.00
17,400.00	90.00	0.00	10,258.30	6,925.55	135.38	6,926.87	0.00	0.00	0.00
17,500.00	90.00	0.00	10,258.30	7,025.55	135.39	7,026.85	0.00	0.00	0.00
17,600.00	90.00	0.00	10,258.30	7,125.55	135.39	7,126.83	0.00	0.00	0.00
17,700.00	90.00	0.00	10,258.30	7,225.55	135.39	7,226.82	0.00	0.00	0.00
17,799.47	90.00	0.00	10,258.30	7,325.02	135.39	7,326.27	0.00	0.00	0.00
TD at 17799.47									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL - Juliet Federal C - hit/miss target - Shape - Rectangle (sides W0.00 H7,715.07 D20.00)	0.00	0.00	10,258.30	7,325.02	135.39	11,695,368.78	2,116,895.67	12° 12' 36.044397 N	3° 27' 32.379532 W
FTP - Juliet Federal C - plan misses target center by 198.39usft at 10200.00usft MD (10127.62 TVD, -240.79 N, 135.20 E) - Point	0.00	180.00	10,258.30	-390.05	135.20	11,687,655.58	2,117,005.99	12° 11' 19.702228 N	3° 27' 32.382453 W



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 312H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3489.30usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3489.30usft (TBD)
Site:	Juliet Federal Com	North Reference:	True
Well:	312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 03-30-22		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,077.30	1,077.30	Rustler				
1,696.30	1,696.30	Salado				
3,754.84	3,738.30	BS BLM (Fletcher Anhydrite)				
5,388.32	5,357.30	Lamar				
5,460.32	5,429.30	Bell Canyon				
6,360.32	6,329.30	Cherry Canyon				
6,578.32	6,547.30	Manzanita Lime				
7,915.32	7,884.30	Brushy Canyon				
9,305.32	9,274.30	Bone Spring Lime				
9,326.32	9,295.30	Avalon				
10,419.71	10,237.30	First Bone Spring Sand				
10,423.16	10,238.30	Target Top at 0' VS				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,000.00	2,000.00	0.00	0.00	KOP, Begin 1.00°/100' Build	
3,000.00	2,994.93	-82.24	28.51	Hold 10.00° Inc at 160.88° Azm	
4,374.77	4,348.82	-307.81	106.69	Begin 1.00°/100' Drop	
5,374.77	5,343.75	-390.05	135.20	Begin Vertical Hold	
9,811.86	9,780.84	-390.05	135.20	KOP2, Begin 12.00°/100' Build	
10,561.86	10,258.31	87.41	135.21	LP, Hold 90.00° Inc at 0.00° Azm	
17,799.47	10,258.30	7,325.02	135.39	TD at 17799.47	

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 121236

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 121236
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/4/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	8/4/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	8/4/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	8/4/2022