

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: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> 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. 9. API Well No.
2. Name of Operator		10. Field and Pool, or Exploratory
3a. Address	3b. Phone No. (include area code)	11. Sec., T. R. M. or Blk. and Survey or Area
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		12. County or Parish
14. Distance in miles and direction from nearest town or post office*		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.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 04/19/2021

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SENW / 2189 FNL / 2146 FWL / TWSP: 24S / RANGE: 34E / SECTION: 27 / LAT: 32.189768 / LONG: -103.459432 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 2539 FNL / 2540 FWL / TWSP: 24S / RANGE: 34E / SECTION: 27 / LAT: 32.188805 / LONG: -103.458157 (TVD: 11158 feet, MD: 11503 feet)

BHL: NENW / 100 FNL / 2540 FWL / TWSP: 24S / RANGE: 34E / SECTION: 22 / LAT: 32.210012 / LONG: -103.45818 (TVD: 11158 feet, MD: 18644 feet)

BLM Point of Contact

Name: Deborah Ham

Title: Legal Landlaw Examiner

Phone: (575) 234-5965

Email: dham@blm.gov

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CENTENNIAL RESOURCES
LEASE NO.:	NMNM077090
WELL NAME & NO.:	Juliet FED COM 514H
SURFACE HOLE FOOTAGE:	2189'/N & 2146'/W
BOTTOM HOLE FOOTAGE:	100'/N & 2540'/W
LOCATION:	Section 27, T.24 S., R.34 E., NMPM
COUNTY:	LEA County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1,165** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
- 3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess cement calculates to 23%, additional cement might be required.**

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

JJP03312021**GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

- rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



Size	5.5
Grade	P110 RY
Weight	20

TCBC-HT

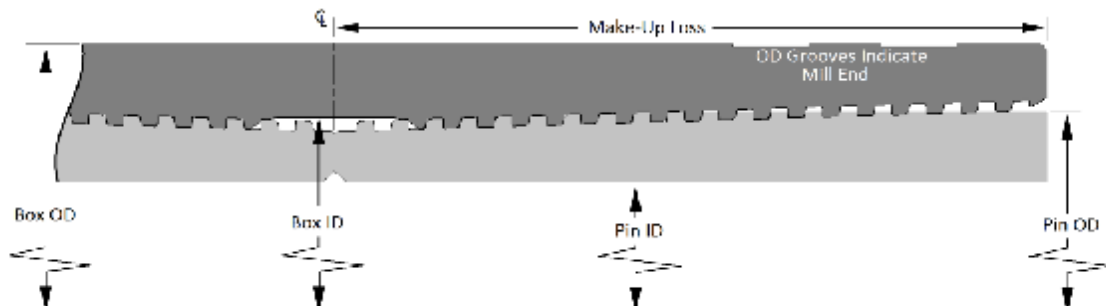
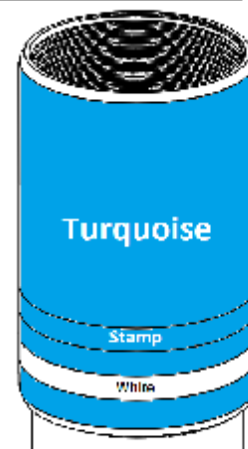
SeAH Steel

Coupling and Pipe Dimensions (in)						
	Outer Diameter	Inner Diameter	Coupling Length	Make-up Loss	Wall Thickness	Drift Diameter
Coupling	6.300	5.383				
Pipe		4.778	8.250	4.125	0.361	4.653
Pin		4.778				

Torque Values (ft-lbs)				
Field End Make-Up			Max. Working Torque ¹	Yield Torque
Minimum	Optimum ²	Maximum		
10,000	13,500	18,500	22,250	25,200

Yield Stress (x1000 lbs.)	
Tensile	Compressive
100%	100%

Maximum Pressure (psi)	
Internal	External
100%	100%

¹ Max. Working Torque value is not to be exceeded during operation.² If Optimum Torque does not meet the Base of Triangle Stamp, M/U to the Base of Triangle.

*Data are for information purposes only. Though HIS has made efforts to ensure accuracy, HIS makes no warranty for loss or damage due to its use.

Rev 0

19996 Hickory Twig Way Spring, TX 77388
Phone: (281) 602-7550
Fax: (281) 602-7557



5.5" 20# .361" P-110 Restricted Yield
(RY)

Dimensions (Nominal)

Outside Diameter	5.500	in.
Wall	0.361	in.
Inside Diameter	4.778	in.
Drift	4.653	in.
Weight, T&C	20.000	lbs/ft
Weight, PE	19.830	lbs/ft

Performance Properties (Minimum)

Minimum Yield Strength	110000	psi
Maximum Yield Strength	125000	psi
Collapse, PE	11100	psi
Internal Yield Pressure		
PE	12630	psi
LTC	12360	psi
BTC	12360	psi
Yield Strength, Pipe Body	641	1000 lbs
Joint Strength LTC	548	1000 lbs
BTC	667	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



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

Operator Certification Data Report

04/20/2021

Operator Certification

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

NAME: Kanicia Schlichting**Signed on:** 11/02/2020**Title:** Sr. Regulatory Analyst**Street Address:** 1001 17th Street, Suite 1800**City:** Denver**State:** CO**Zip:** 80202**Phone:** (720)499-1537**Email address:** Kanicia.schlichting@cdevinc.com

Field Representative

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



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

Application Data Report

04/20/2021

APD ID: 10400064717

Submission Date: 11/02/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400064717

Tie to previous NOS? N

Submission Date: 11/02/2020

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)499-1400

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: 514H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: Second Bone
Spring SandPool 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:** 514H**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_FEDERAL_COM__514H_C102_Lease____REV_08_11_2020_20201102030808.pdf

JULIET_FEDERAL_COM__514H_C102____REV_08_11_2020_20201102030810.pdf

Well work start Date: 12/25/2021**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	218 9	FNL	214 6	FW L	24S	34E	27	Aliquot SENW	32.18976 8	- 103.4594 32	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	346 2	0	0	Y
KOP Leg #1	218 9	FNL	214 6	FW L	24S	34E	27	Aliquot SENW	32.18976 8	- 103.4594 32	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 712 3	106 03	105 85	Y

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC**Well Name:** JULIET FEDERAL COM**Well Number:** 514H

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	2540	FWL	24S	34E	27	Aliquot SENW	32.188805	-103.458157	LEA	NEW MEXICO	NEW MEXICO	F	FEE	-7696	11503	11158	Y
EXIT Leg #1	100	FNL	2540	FWL	24S	34E	22	Aliquot NENW	32.210012	-103.45818	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77090	-7696	18644	11158	Y
BHL Leg #1	100	FNL	2540	FWL	24S	34E	22	Aliquot NENW	32.210012	-103.45818	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77090	-7696	18644	11158	Y

District I
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
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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 514H
⁷ OGRID No.		⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			⁹ Elevation 3462.3'

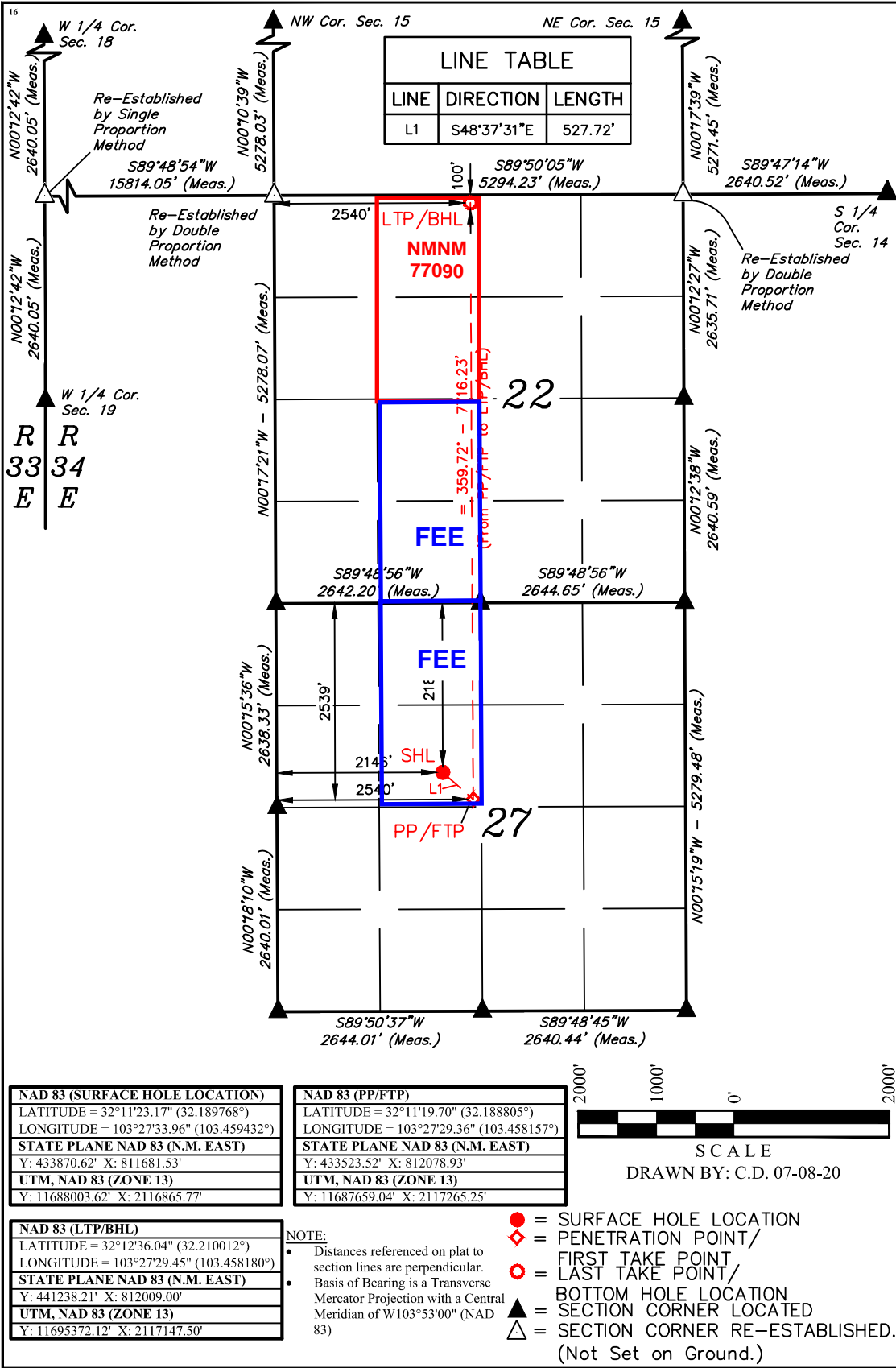
¹⁰ Surface Location

UL or lot no. F	Section 27	Township 24S	Range 34E	Lot Idn	Feet from the 2189	North/South line NORTH	Feet from the 2146	East/West line WEST	County LEA
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	---------------

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 2540	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:



Certificate Number:

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°11'23.17" (32.189768°)	
LONGITUDE = 103°27'33.96" (103.459432°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 433870.62' X: 811681.53'	
UTM, NAD 83 (ZONE 13)	
Y: 11688003.62' X: 2116865.77'	

NAD 83 (PP/FTP)	
LATITUDE = 32°11'19.70" (32.188805°)	
LONGITUDE = 103°27'29.36" (103.458157°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 433523.52' X: 812078.93'	
UTM, NAD 83 (ZONE 13)	
Y: 11687659.04' X: 2117265.25'	

NAD 83 (LTP/BHL)	
LATITUDE = 32°12'36.04" (32.210012°)	
LONGITUDE = 103°27'29.45" (103.458180°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 441238.21' X: 812009.00'	
UTM, NAD 83 (ZONE 13)	
Y: 11695372.12' X: 2117147.50'	

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.)

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Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
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⁷ OGRID No.		⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			⁹ Elevation 3462.3'

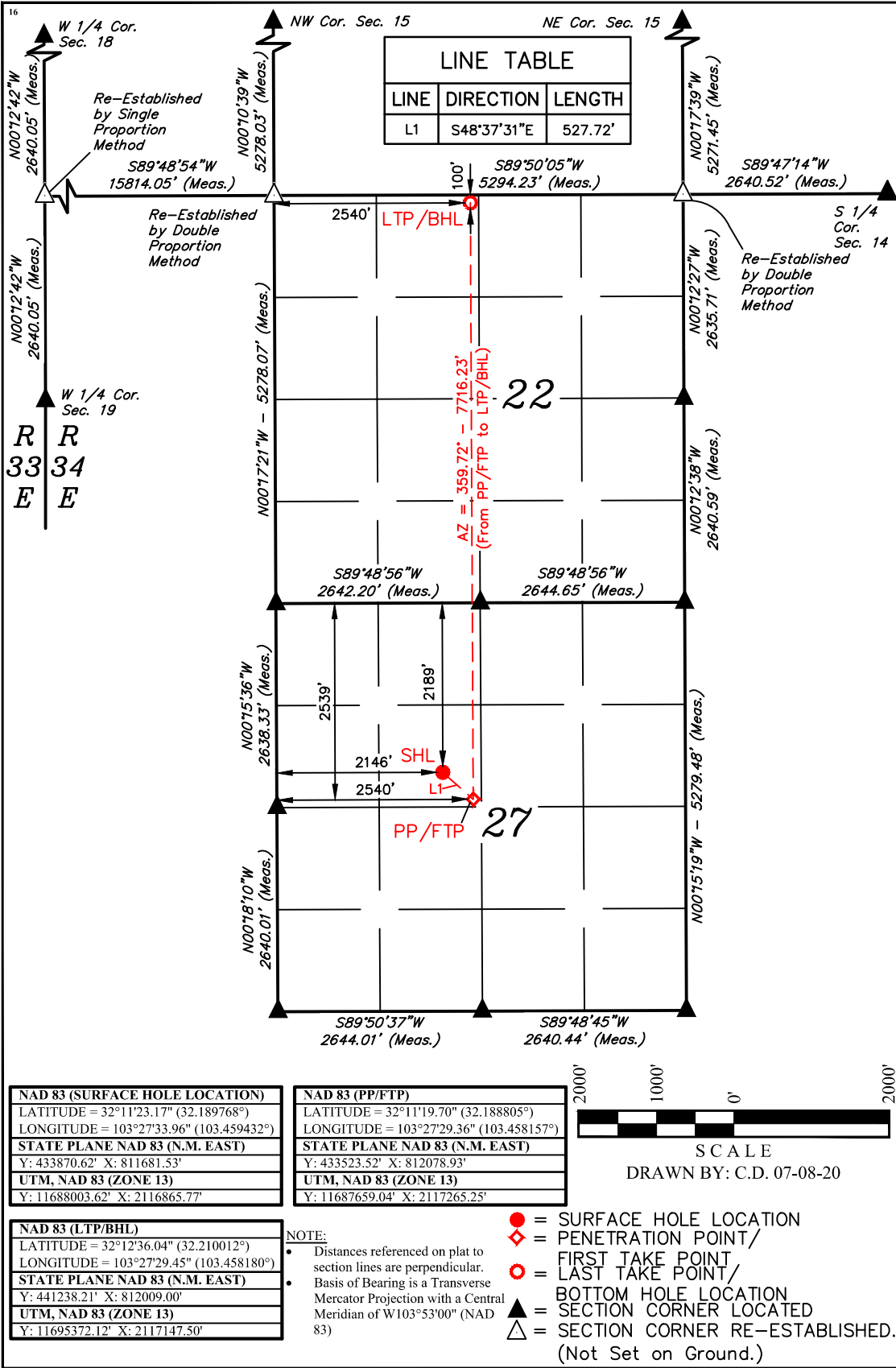
¹⁰ Surface Location

UL or lot no. F	Section 27	Township 24S	Range 34E	Lot Idn	Feet from the 2189	North/South line NORTH	Feet from the 2146	East/West line WEST	County LEA
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	---------------

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UL or lot no. C	Section 22	Township 24S	Range 34E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 2540	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.



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- ▲ = SECTION CORNER LOCATED
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U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

04/20/2021

APD ID: 10400064717

Submission Date: 11/02/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

[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
1127127	RUSTLER	3468	1096	1096	SANDSTONE	NONE	N
1127128	SALADO	1753	1715	1715	ANHYDRITE, SALT	USEABLE WATER	N
1127129	LAMAR	-1908	5376	5376	SHALE	USEABLE WATER	N
1127130	BELL CANYON	-1980	5448	5448	SANDSTONE	NATURAL GAS, OIL	N
1127131	CHERRY CANYON	-2880	6348	6348	SANDSTONE	NATURAL GAS, OIL	N
1127132	BRUSHY CANYON	-4435	7903	7903	SANDSTONE	NATURAL GAS, OIL	N
1127133	BONE SPRING LIME	-5825	9293	9293	OTHER : Carbonate	NATURAL GAS, OIL	N
1127134	AVALON SAND	-5846	9314	9314	SHALE	CO2, NATURAL GAS, OIL	N
1127135	FIRST BONE SPRING SAND	-6788	10256	10256	SANDSTONE	NATURAL GAS, OIL	N
1127136	BONE SPRING 2ND	-6989	10457	10457	SHALE	NATURAL GAS, OIL	Y
1127137	BONE SPRING 3RD	-8361	11829	11829	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11158

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:** 514H

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:

HP_10M_Choke_Manifold_20201102022340.pdf

BOP Diagram Attachment:

CDEV_Well_Control_Plan_Bonesprings_20201102022330.pdf

HP_BOP_Schematic_CoFlex_Choke_10K_20201102022355.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	3462	3342	120	H-40	94	OTHER - weld						
2	SURFACE	17.5	13.375	NEW	API	N	0	1150	0	1150	3462	2312	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	5395	3468	-1933	5400	J-55	40	LT&C	1.3	5.27	DRY	2.41	DRY	2.92
4	PRODUCTION	8.75	5.5	NEW	API	N	0	11503	0	11158	3468	-7696	11503	OTHER	20	OTHER - TCBC-HT	1.74	8.15	DRY	2.87	DRY	2.87
5	PRODUCTION	8.5	5.5	NEW	API	N	11503	18644	11158	11158	-7696	-7696	7141	OTHER	20	OTHER - TCBC-HT	1.74	8.15	DRY	2.87	DRY	2.87

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC**Well Name:** JULIET FEDERAL COM**Well Number:** 514H**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_ASSUMPTIONS_WORKSHEET_20201102022918.pdf

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: 514H

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

Technical_Data_Sheet_HIS_TCBC_HT_5.5_20_P110RY_20210121163417.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

Technical_Data_Sheet_HIS_TCBC_HT_5.5_20_P110RY_20210121163436.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	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: 514H

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	1060 3	1038	3.41	10.6	3539	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		1060 3	1864 4	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:** 514H

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	1864 3	OTHER : Brine/OBM	9	11							

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: 6382

Anticipated Surface Pressure: 3927

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_Juliet_Federal_Com_514H_20201102033035.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JULIET_FED_COM_514H___DIRECTIONAL_PLAN___100__STATIONS_20201102033117.pdf

Other proposed operations facets description:

Gas Capture, WBD, Geo prog attached.

Other proposed operations facets attachment:

CRD_Batch_Setting_Procedures_20201101230021.pdf

Juliet_513H_514H_Gas_Capture_Plan_20201102024447.pdf

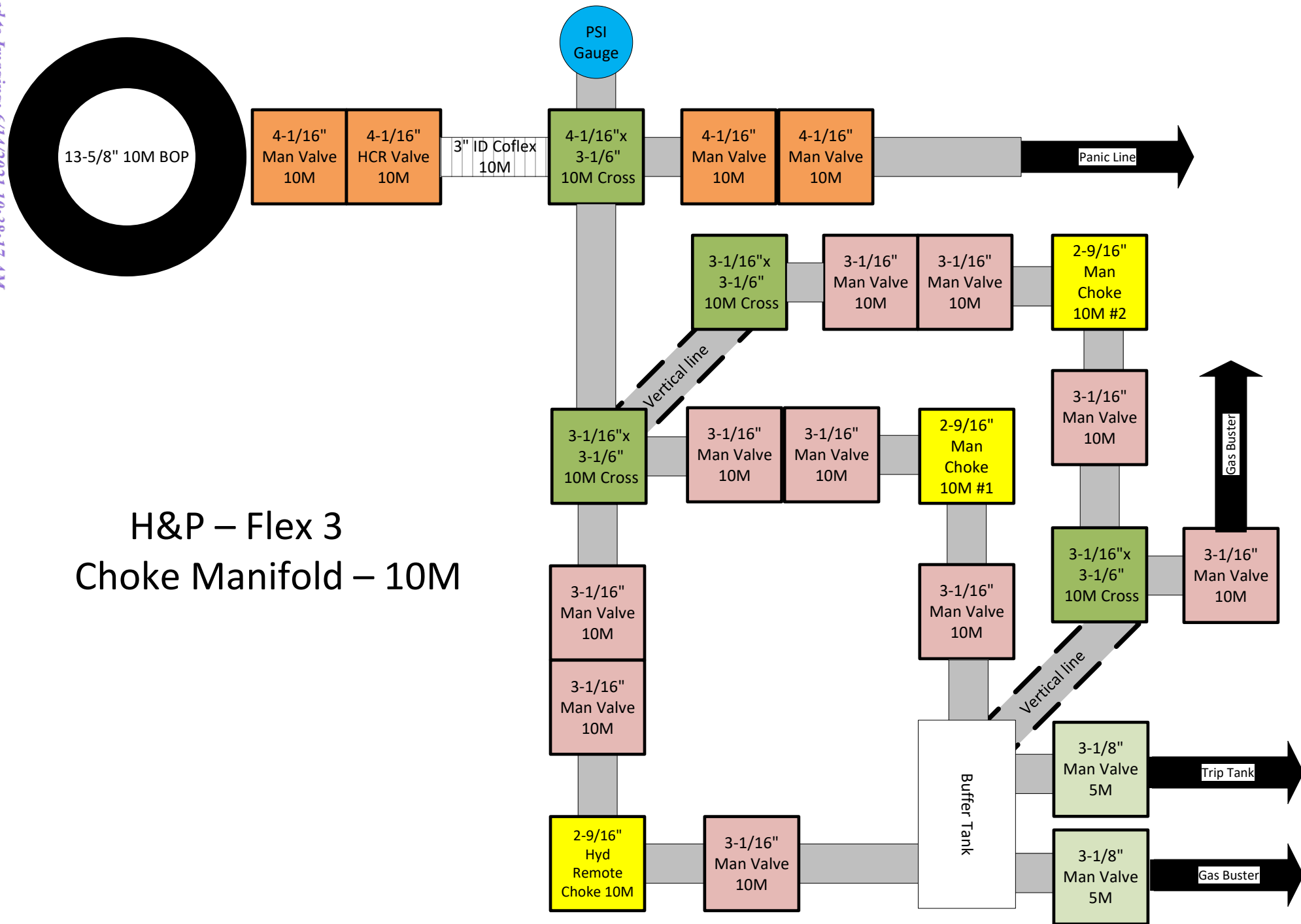
CDEV_Multi_Bowl_Procedure_Juliet_Fed_Com_514H_20201102033132.pdf

GEOPROG_Juliet_Fed_514H_PRELIM_1_20201102033151.pdf

Juliet_Fed_Com_514H_WBD__Proposed__20201102033237.pdf

Other Variance attachment:

H_P_Flex_Hose_Specs_Continental_Hose_SN_67255_20201102024622.pdf



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:

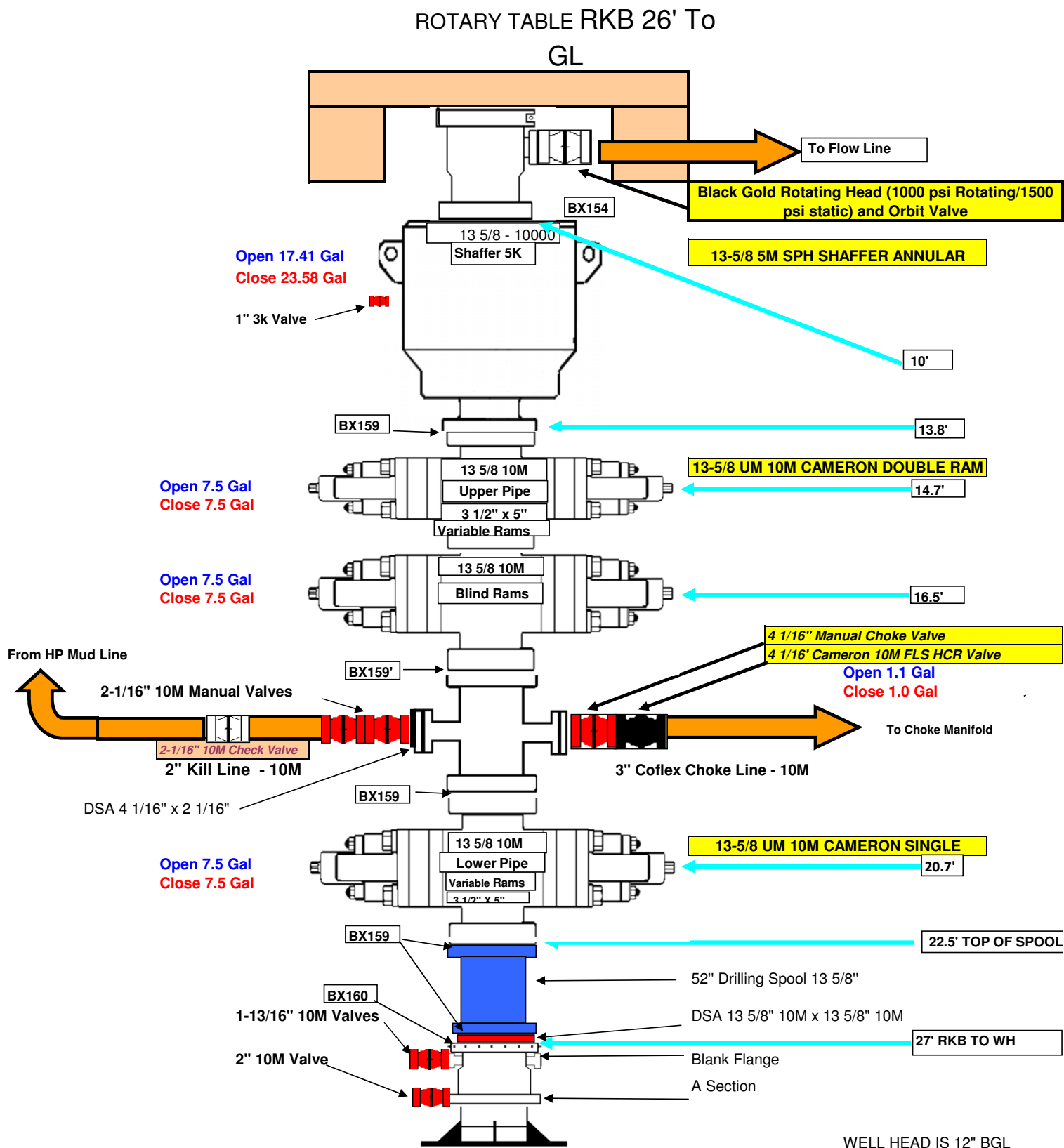
- a. Sound alarm, alert crew
- b. Stab full opening safety valve and close
- c. Space out drillstring with tool joint just beneath the upper pipe ram.
- d. Open HCR
- e. Shut-in utilizing upper VBRs
- f. Close choke
- g. Confirm shut-in
- h. Notify rig manager and Centennial company representative.
- 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-Flex3



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.

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Size	5.5
Grade	P110 RY
Weight	20

TCBC-HT

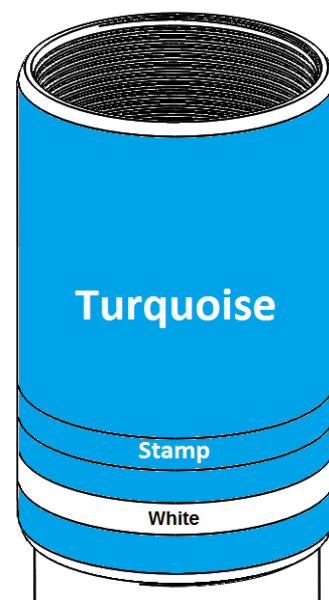
SeAH Steel

Coupling and Pipe Dimensions (in)						
	Outer Diameter	Inner Diameter	Coupling Length	Make-up Loss	Wall Thickness	Drift Diameter
Coupling	6.300	5.383	8.250	4.125	0.361	4.653
Pipe		4.778				
Pin		4.778				

Torque Values (ft-lbs)				
Field End Make-Up			Max. Working Torque ^{1.}	Yield Torque
Minimum	Optimum ^{2.}	Maximum		
10,000	13,500	18,500	22,250	25,200

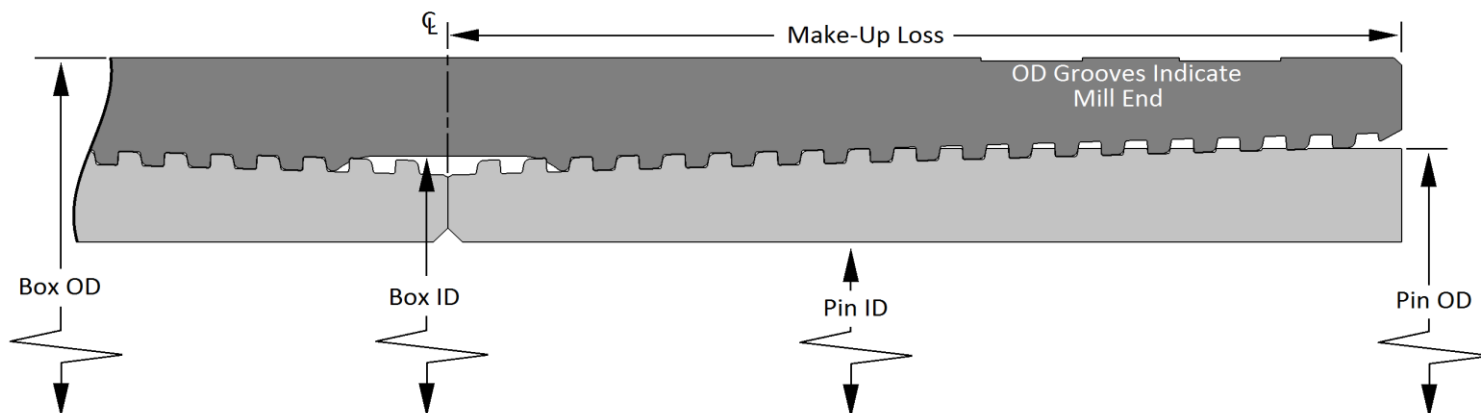
Yield Stress (x1000 lbs.)	
Tensile	Compressive
100%	100%

Maximum Pressure (psi)	
Internal	External
100%	100%



^{1.} Max. Working Torque value is not to be exceeded during operation.

^{2.} If Optimum Torque does not meet the Base of Triangle Stamp, M/U to the Base of Triangle.



*Data are for information purposes only. Though HIS has made efforts to ensure accuracy, HIS makes no warranty for loss or damage due to its use.

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Rev 0

19996 Hickory Twig Way Spring, TX 77388

Phone: (281) 602-7550

Fax: (281) 602-7557



5.5" 20# .361" P-110 Restricted Yield (RY)

Dimensions (Nominal)

Outside Diameter	5.500	in.
Wall	0.361	in.
Inside Diameter	4.778	in.
Drift	4.653	in.
Weight, T&C	20.000	lbs/ft
Weight, PE	19.830	lbs/ft

Performance Properties (Minimum)

Minimum Yield Strength	110000	psi
Maximum Yield Strength	125000	psi
Collapse, PE	11100	psi
Internal Yield Pressure		
PE	12630	psi
LTC	12360	psi
BTC	12360	psi
Yield Strength, Pipe Body	641	1000 lbs
Joint Strength		
LTC	548	1000 lbs
BTC	667	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

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TCBC-HT

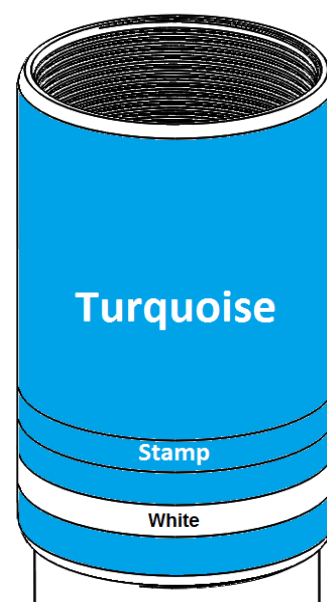
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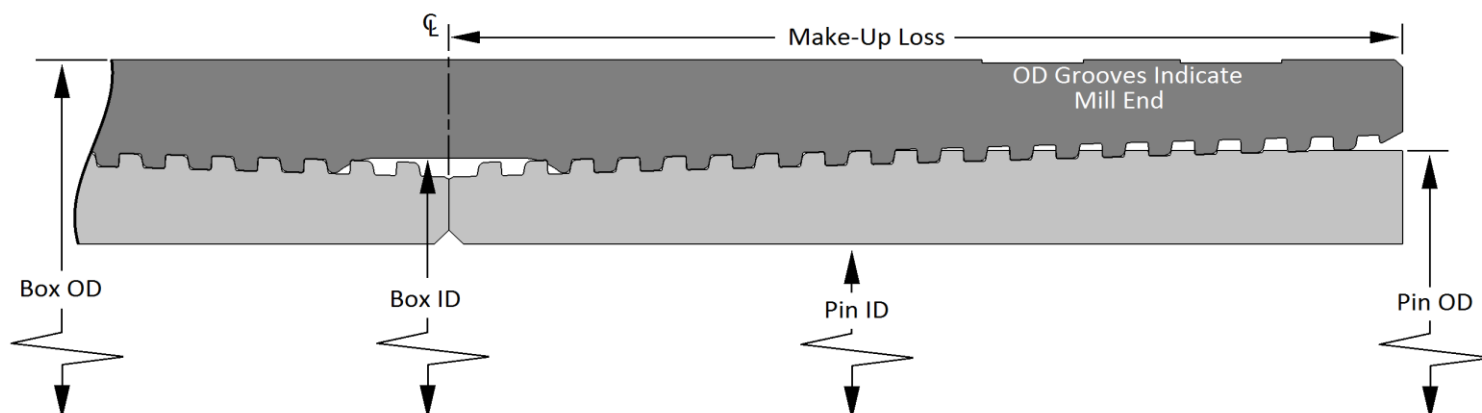
Yield Stress (x1000 lbs.)	
Tensile	Compressive
100%	100%

Maximum Pressure (psi)	
Internal	External
100%	100%



^{1.} Max. Working Torque value is not to be exceeded during operation.

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Minimum Yield Strength	110000	psi
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HYDROGEN SULFIDE CONTINGENCY PLAN

Juliet Federal Com 514H

Section 27

T 24S R 34E

Lea County, NM

Initial Date: 3/4/18

Revision Date:

Table of Contents

Page 3: Introduction

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Page 5: Safe Briefing Areas

Page 6: Drill Site Location Setup

Page 7: Toxicity of Various Gases

Page 10: H₂S Required Equipment

Page 11: Determination of Radius of Exposure

Page 12: Emergency Contact List

INTRODUCTION

This plan specifies precautionary measures, safety equipment, emergency procedures, responsibilities, duties, and the compliance status pertaining to the production operations of Hydrogen Sulfide producing wells on:

Centennial Resource Development, Inc.

This plan will be in full effect prior to and continuing with all drilling operations for all wells producing potential Hydrogen Sulfide on the

Juliet Federal Com 514H

This plan was developed in response to the potential hazards involved when producing formations that may contain Hydrogen Sulfide (H₂S) It has been written in compliance with current New Mexico Oil Conservation Division Rule 118 and Bureau of Land Management 43 CFR 3160 Onshore Order No. 6.

All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a

This plan shall require the full cooperation and efforts of all individuals participating in the production of potential H₂S wells.

Each individual is required to know their assigned responsibilities and duties in regard to normal production operations and emergency procedures.

Each person should thoroughly understand and be able to use all safety related equipment on the production facility.

Each person should become familiar with the location of all safety equipment and become involved in ensuring that all equipment is properly stored, easily accessible, and routinely maintained.

An ongoing training program will remain in effect with regular training, equipment inspections, and annual certifications for all personnel.

Centennial Resource Development, Inc. shall make every reasonable effort to provide all possible safeguards to protect all personnel, both on this location and in the immediate vicinity, from the harmful effects of H₂S exposure, if a release to the atmosphere should occur.

DIRECTIONS TO LOCATION

Mozzarella Federal Com 514H

Section 8

T 22S R 32E

Lea County, NM

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.

SAFE BRIEFING AREAS

Two areas will be designated as “SAFE BRIEFING AREAS”.

The Primary Safe Briefing Area

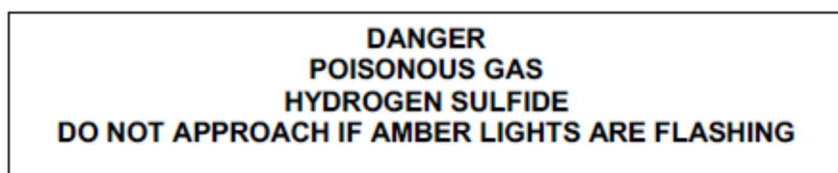
If the Primary Safe Briefing Area cannot be used due to wind conditions; the designated secondary safe briefing area will be used.

These two areas are so designated for accessibility reasons related to self-contained safe breathing air device locations, evacuation muster point utility, and for ease of overall communication, organizational support, as well as the all-important prevailing wind directions. Drawings of the facility denoting these locations are included on Page 15.

If H₂S is detected in concentrations equal to or in excess of 15 PPM, all personnel not assigned emergency duties are to assemble in the appropriate “SAFE BRIEFING AREA” for instructions.

Wind Direction Indicators: A windsock, shall be positioned, allowing the wind direction to be observed from anywhere on the charted facility location.

Warning-DANGER SIGNS for Approaching Traffic: All signs shall also be illuminated under conditions of poor visibility.



An amber strobe light system will be activated for H₂S concentrations of 10 PPM or greater and an audible alarm will sound when H₂S exceeds 15 ppm, and. This condition will exist until the all clear is given.

DRILL SITE LOCATION:

1. The drilling rig should be situated on location such that the prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
2. The entrance to the location should be designated so that it can be barricaded if Hydrogen Sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available in case of a catastrophe; a shift in wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
3. Once H₂S safety procedures are established on location, no beards or facial hair, which will interfere with face seal or mask, will be allowed on location.
4. A minimum of two BRIEFING AREAS will be established, no less than 250 feet from the wellhead and in such location that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing areas for instructions.
5. A safety equipment trailer will be station at one of the briefing areas.
6. Windsocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsocks shall be illuminated for nighttime operations. Personnel should develop wind direction consciousness.
7. The mud-logging trailer will be located so as to minimize the danger from the gas that breaks out of the drilling fluid.
8. Shale shaker mud tanks will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
9. Electric power plant(s) will be located as far from the well bore as practical so that it may be used under conditions where it otherwise would have to be shut down.
10. When approaching depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
11. Appropriate smoking areas will be designated, and smoking will be prohibited elsewhere.

The table below lists various poisonous gases and the concentrations at which they become dangerous.

TOXICITY OF VARIOUS GASES

TOXICITY OF GASES (Taken from API RP-49 September 1974 – Re-issued August 1978)					
Common Name	Chemical Formula	Gravity (Air = 1)	Threshold 1 Limit	Hazardous 2 Limit	Lethal 3 Limit
Hydrogen Sulfide	H ₂ S	1.18	10 ppm	250 ppm/1hr	600 ppm
Sulfur Dioxide	SO ₂	2.21	20 ppm	---	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/1hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH ₄	0.55	90000 ppm	Combustible Above 5% in Air	

1. Threshold concentration at which it is believed that all workers may repeatedly be exposed day after day, without adverse effect	2. Hazardous concentration that may cause death	3. Lethal concentration that will cause death with short-term exposure
---	---	--

Properties of Gases

The produced gas will probably be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

Carbon Dioxide

Carbon Dioxide (CO₂) is usually considered inert and is commonly used to extinguish fires.

It is heavier than air (1.52 times) and it will concentrate in low areas of still air.

Humans cannot breathe air containing more than 10% CO₂ without losing consciousness. Air containing 5% CO₂ will cause disorientation in a few minutes.

Continued exposures to CO₂ after being affected will cause convulsions, coma, and respiratory failure.

The threshold limit of CO₂ is 5000 ppm.

Short-term exposure to 50,000 PPM (5%) is reasonable. This gas is colorless and odorless and can be tolerated in relatively high concentrations.

Hydrogen Sulfide

Hydrogen Sulfide (H₂S) itself is a colorless, transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H₂S in the air is normally detectable by its characteristic “rotten egg” odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide.

HYDROGEN SULFIDE TOXICITY			
Concentration			Effects
%H ₂ S	PPM	GR/100 SCF 1	
0.001	10	0.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.
0.002	20	1.30	Burning in eyes and irritation of respiratory tract after on hour.
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell shortly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.
0.07	700	45.92	Unconscious quickly; death will result if not rescued promptly
0.10	1000	64.80	DEATH!
Note: 1 grain per 100 cubic feet			

Sulfur Dioxide

Sulfur Dioxide is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide (SO₂) is produced during the burning of H₂S. Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas.

SULFUR DIOXIDE TOXICITY		
Concentration		Effects
%SO ₂	PPM	
0.0005	3 to 5	Pungent odor-normally a person can detect SO ₂ in this range.
0.0012	12	Throat irritation, coughing, and constriction of the chest tearing and smarting of eyes.
0.15	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with first breath.

H₂S REQUIRED EQUIPMENT LIST**RESPIRATORY SAFETY SYSTEMS**

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/rescue units

DETECTION AND ALARM SYSTEM

- 4 channel H₂S monitor
- 4 wireless H₂S monitors
- H₂S alarm system (Audible/Red strobe)
- Personal gas monitor for each person on location
- Gas sample tubes

WELL CONTROL EQUIPMENT

- Flare line with remote ignitor and backup flare gun, placed 150' from wellhead
- Choke manifold with remotely operated choke
- Mud gas separator

VISUAL WARNING SYSTEMS

- One color code condition sign will be placed at each entrance reflecting possible conditions at the site
- A colored condition flag will be on display, reflecting current condition at the site at the time
- At least 4 wind socks placed on location, visible at all angles and locations

MUD PROGRAM

- Mud will contain sufficient weight and additives to control and minimize H₂S

METALLURGY

- All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure

COMMUNICATION

- Cell phones, intercoms, and satellite phones will be available on location

ADDITIONAL SAFETY RELATED ITEMS

- Stretcher
- 2 OSHA full body harness
- 20# class ABC fire extinguisher

DETERMINATION OF RADIUS OF EXPOSURE

Potentially hazardous volume means a volume of gas of such H₂S concentration and flow rate that it may result in radius of exposure-calculated ambient concentrations of 100 ppm H₂S at any occupied residence, school, church, park, school bus stop, place of business or other area where the public could reasonably be expected to frequent, or 500 ppm H₂S at any Federal, State, County or municipal road or highway.

Currently there are no residence located within the ROE

Radius of exposure means the calculation resulting from using the Pasquill -Gifford derived equation, or by such other method(s) that may be approved by the authorized officer. Advanced Fire and Safety has provided the Pasquill-Gifford formula in excel format for simple calculations.

NEW MEXICO OIL & GAS CONSERVATION DIVISION 118**Juliet Federal Com 514H**

H₂S Concentration- 100 PPM

Maximum Escape Volume- 5000 MCF/Day

100 PPM Radius of Exposure - 65
(Formula= $1.589 \times (100/1000000) \times (5000 \times 1000)^{.6258}$)

500 PPM Radius of Exposure - 30
(Formula= $.4546 \times (100/1000000) \times (5000 \times 1000)^{.6258}$)

EMERGENCY CONTACT LIST

911 is available in the area			
NAME	<u>POSITION</u>	<u>COMPANY</u>	NUMBER
Centennial Contacts			
Ronny Hise	<u>Drilling Engineer</u>	CDEV	432-770-4786
Jason Fitzgerald	<u>Superintendent</u>	CDEV	318-347-3916
TBD	Field Superintendent	CDEV	432-287-3003
Brett Thompson	<u>Drilling Manager</u>	CDEV	720-656-7027
Derrick Melton	<u>HSE Manager</u>	CDEV	432-296-8720
Drilling Office	Drilling Supervisor	CDEV	432-538-3343
Local Emergency Response			
Fire Department			575-395-2511
Jal Community Hospital			505-395-2511
State Police			505-827-9000
Lea County Sheriff			575-396-3611
Safety Contractor			
Advanced Safety	<u>Office</u>	Advanced Safety	833-296-3913
Joe Gadway	<u>Permian Supervisor</u>	Advanced Safety	318-446-3716
Clint Hudson	<u>Operations Manager</u>	Advanced Safety	337-552-8330
Well Control Company			
Wild Well Control			866-404-9564
Contractors			
Tommy E Lee	<u>Pump Trucks</u>		432-813-7140
Paul Smith	<u>Drilling Fluids</u>	<u>Momentum</u>	307-258-6254
Compass Coordinators	<u>Cement</u>	<u>Compass</u>	432-561-5970

NEW MEXICO

LEA

JULIET FEDERAL COM

JULIET FED COM 514H

JULIET FED COM 514H

Plan: PWP0

Standard Survey Report

15 October, 2020

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	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
From:	Map	Easting:	0.00 m
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	0° 0' 0.000 N
		Longitude:	109° 29' 19.478 W
		Grid Convergence:	0.00 °

Well	JULIET FED COM 514H		
Well Position	+N/-S	0.0 ft	Northing: 3,562,510.63 m
	+E/-W	0.0 ft	Easting: 645,221.98 m
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	32° 11' 23.166 N
		Longitude:	103° 27' 33.956 W
		Ground Level:	3,462.3 ft

Wellbore	JULIET FED COM 514H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	12/31/2009	7.70
			Dip Angle (°)
			60.23
			Field Strength (nT)
			48,784.32337010

Design	PWP0		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.0	0.0	0.0
			Direction (°)
			3.01

Survey Tool Program	Date	10/15/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	18,643.5	PWP0 (JULIET FED COM 514H)	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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	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	
2,100.0	1.00	131.60	2,100.0	-0.6	0.7	-0.5	1.00	1.00	0.00	
2,200.0	2.00	131.60	2,200.0	-2.3	2.6	-2.2	1.00	1.00	0.00	
2,300.0	3.00	131.60	2,299.9	-5.2	5.9	-4.9	1.00	1.00	0.00	
2,400.0	4.00	131.60	2,399.7	-9.3	10.4	-8.7	1.00	1.00	0.00	
2,500.0	4.00	131.60	2,499.4	-13.9	15.7	-13.1	0.00	0.00	0.00	
2,600.0	4.00	131.60	2,599.2	-18.5	20.9	-17.4	0.00	0.00	0.00	
2,700.0	4.00	131.60	2,698.9	-23.2	26.1	-21.8	0.00	0.00	0.00	
2,800.0	4.00	131.60	2,798.7	-27.8	31.3	-26.1	0.00	0.00	0.00	
2,900.0	4.00	131.60	2,898.5	-32.4	36.5	-30.5	0.00	0.00	0.00	
3,000.0	4.00	131.60	2,998.2	-37.1	41.7	-34.8	0.00	0.00	0.00	
3,100.0	4.00	131.60	3,098.0	-41.7	47.0	-39.2	0.00	0.00	0.00	
3,200.0	4.00	131.60	3,197.7	-46.3	52.2	-43.5	0.00	0.00	0.00	
3,300.0	4.00	131.60	3,297.5	-50.9	57.4	-47.9	0.00	0.00	0.00	
3,400.0	4.00	131.60	3,397.2	-55.6	62.6	-52.2	0.00	0.00	0.00	
3,500.0	4.00	131.60	3,497.0	-60.2	67.8	-56.6	0.00	0.00	0.00	
3,600.0	4.00	131.60	3,596.8	-64.8	73.0	-60.9	0.00	0.00	0.00	
3,700.0	4.00	131.60	3,696.5	-69.5	78.2	-65.3	0.00	0.00	0.00	
3,800.0	4.00	131.60	3,796.3	-74.1	83.5	-69.6	0.00	0.00	0.00	
3,900.0	4.00	131.60	3,896.0	-78.7	88.7	-74.0	0.00	0.00	0.00	
4,000.0	4.00	131.60	3,995.8	-83.4	93.9	-78.3	0.00	0.00	0.00	
4,100.0	4.00	131.60	4,095.5	-88.0	99.1	-82.7	0.00	0.00	0.00	
4,200.0	4.00	131.60	4,195.3	-92.6	104.3	-87.0	0.00	0.00	0.00	
4,300.0	4.00	131.60	4,295.0	-97.3	109.5	-91.4	0.00	0.00	0.00	
4,400.0	4.00	131.60	4,394.8	-101.9	114.8	-95.7	0.00	0.00	0.00	
4,500.0	4.00	131.60	4,494.6	-106.5	120.0	-100.1	0.00	0.00	0.00	
4,600.0	4.00	131.60	4,594.3	-111.2	125.2	-104.4	0.00	0.00	0.00	
4,700.0	4.00	131.60	4,694.1	-115.8	130.4	-108.8	0.00	0.00	0.00	
4,800.0	4.00	131.60	4,793.8	-120.4	135.6	-113.1	0.00	0.00	0.00	
4,900.0	4.00	131.60	4,893.6	-125.0	140.8	-117.5	0.00	0.00	0.00	
5,000.0	4.00	131.60	4,993.3	-129.7	146.1	-121.8	0.00	0.00	0.00	
5,100.0	4.00	131.60	5,093.1	-134.3	151.3	-126.2	0.00	0.00	0.00	
5,200.0	4.00	131.60	5,192.9	-138.9	156.5	-130.5	0.00	0.00	0.00	
5,300.0	4.00	131.60	5,292.6	-143.6	161.7	-134.9	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
5,400.0	4.00	131.60	5,392.4	-148.2	166.9	-139.2	0.00	0.00	0.00	
5,500.0	4.00	131.60	5,492.1	-152.8	172.1	-143.6	0.00	0.00	0.00	
5,600.0	4.00	131.60	5,591.9	-157.5	177.4	-147.9	0.00	0.00	0.00	
5,700.0	4.00	131.60	5,691.6	-162.1	182.6	-152.3	0.00	0.00	0.00	
5,800.0	4.00	131.60	5,791.4	-166.7	187.8	-156.6	0.00	0.00	0.00	
5,900.0	4.00	131.60	5,891.1	-171.4	193.0	-161.0	0.00	0.00	0.00	
6,000.0	4.00	131.60	5,990.9	-176.0	198.2	-165.3	0.00	0.00	0.00	
6,100.0	4.00	131.60	6,090.7	-180.6	203.4	-169.7	0.00	0.00	0.00	
6,200.0	4.00	131.60	6,190.4	-185.3	208.7	-174.0	0.00	0.00	0.00	
6,300.0	4.00	131.60	6,290.2	-189.9	213.9	-178.4	0.00	0.00	0.00	
6,400.0	4.00	131.60	6,389.9	-194.5	219.1	-182.7	0.00	0.00	0.00	
6,500.0	4.00	131.60	6,489.7	-199.2	224.3	-187.1	0.00	0.00	0.00	
6,600.0	4.00	131.60	6,589.4	-203.8	229.5	-191.4	0.00	0.00	0.00	
6,700.0	4.00	131.60	6,689.2	-208.4	234.7	-195.8	0.00	0.00	0.00	
6,800.0	4.00	131.60	6,789.0	-213.0	240.0	-200.1	0.00	0.00	0.00	
6,900.0	4.00	131.60	6,888.7	-217.7	245.2	-204.5	0.00	0.00	0.00	
7,000.0	4.00	131.60	6,988.5	-222.3	250.4	-208.8	0.00	0.00	0.00	
7,100.0	4.00	131.60	7,088.2	-226.9	255.6	-213.2	0.00	0.00	0.00	
7,200.0	4.00	131.60	7,188.0	-231.6	260.8	-217.6	0.00	0.00	0.00	
7,300.0	4.00	131.60	7,287.7	-236.2	266.0	-221.9	0.00	0.00	0.00	
7,400.0	4.00	131.60	7,387.5	-240.8	271.3	-226.3	0.00	0.00	0.00	
7,500.0	4.00	131.60	7,487.3	-245.5	276.5	-230.6	0.00	0.00	0.00	
7,600.0	4.00	131.60	7,587.0	-250.1	281.7	-235.0	0.00	0.00	0.00	
7,700.0	4.00	131.60	7,686.8	-254.7	286.9	-239.3	0.00	0.00	0.00	
7,800.0	4.00	131.60	7,786.5	-259.4	292.1	-243.7	0.00	0.00	0.00	
7,900.0	4.00	131.60	7,886.3	-264.0	297.3	-248.0	0.00	0.00	0.00	
8,000.0	4.00	131.60	7,986.0	-268.6	302.6	-252.4	0.00	0.00	0.00	
8,100.0	4.00	131.60	8,085.8	-273.3	307.8	-256.7	0.00	0.00	0.00	
8,200.0	4.00	131.60	8,185.5	-277.9	313.0	-261.1	0.00	0.00	0.00	
8,300.0	4.00	131.60	8,285.3	-282.5	318.2	-265.4	0.00	0.00	0.00	
8,400.0	4.00	131.60	8,385.1	-287.1	323.4	-269.8	0.00	0.00	0.00	
8,500.0	4.00	131.60	8,484.8	-291.8	328.6	-274.1	0.00	0.00	0.00	
8,600.0	4.00	131.60	8,584.6	-296.4	333.9	-278.5	0.00	0.00	0.00	
8,700.0	4.00	131.60	8,684.3	-301.0	339.1	-282.8	0.00	0.00	0.00	
8,800.0	4.00	131.60	8,784.1	-305.7	344.3	-287.2	0.00	0.00	0.00	
8,900.0	4.00	131.60	8,883.8	-310.3	349.5	-291.5	0.00	0.00	0.00	
9,000.0	4.00	131.60	8,983.6	-314.9	354.7	-295.9	0.00	0.00	0.00	
9,100.0	4.00	131.60	9,083.4	-319.6	359.9	-300.2	0.00	0.00	0.00	
9,200.0	4.00	131.60	9,183.1	-324.2	365.2	-304.6	0.00	0.00	0.00	
9,300.0	4.00	131.60	9,282.9	-328.8	370.4	-308.9	0.00	0.00	0.00	
9,400.0	4.00	131.60	9,382.6	-333.5	375.6	-313.3	0.00	0.00	0.00	
9,500.0	4.00	131.60	9,482.4	-338.1	380.8	-317.6	0.00	0.00	0.00	
9,550.0	4.00	131.60	9,532.3	-340.4	383.4	-319.8	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)
9,600.0	3.50	131.60	9,582.2	-342.6	385.9	-321.8	1.00	-1.00	0.00
9,700.0	2.50	131.60	9,682.0	-346.1	389.8	-325.1	1.00	-1.00	0.00
9,800.0	1.50	131.60	9,782.0	-348.4	392.4	-327.3	1.00	-1.00	0.00
9,900.0	0.50	131.60	9,881.9	-349.5	393.7	-328.4	1.00	-1.00	0.00
9,950.0	0.00	0.00	9,932.0	-349.7	393.8	-328.5	1.00	-1.00	0.00
10,000.0	0.00	0.00	9,981.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,081.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,181.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,281.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,381.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,481.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,581.9	-349.7	393.8	-328.5	0.00	0.00	0.00
10,603.0	0.00	0.00	10,585.0	-349.7	393.8	-328.5	0.00	0.00	0.00
10,700.0	9.70	0.49	10,681.5	-341.5	393.9	-320.3	10.00	10.00	0.00
10,800.0	19.69	0.49	10,778.1	-316.2	394.1	-295.0	10.00	10.00	0.00
10,900.0	29.69	0.49	10,868.8	-274.4	394.5	-253.3	10.00	10.00	0.00
11,000.0	39.69	0.49	10,950.9	-217.6	395.0	-196.5	10.00	10.00	0.00
11,100.0	49.69	0.49	11,021.9	-147.4	395.6	-126.4	10.00	10.00	0.00
11,200.0	59.69	0.49	11,079.7	-65.9	396.3	-45.0	10.00	10.00	0.00
11,300.0	69.68	0.49	11,122.4	24.4	397.0	45.2	10.00	10.00	0.00
11,400.0	79.68	0.49	11,148.8	120.7	397.9	141.5	10.00	10.00	0.00
11,500.0	89.68	0.49	11,158.0	220.2	398.7	240.8	10.00	10.00	0.00
11,503.2	90.00	0.49	11,158.0	223.4	398.7	244.0	10.00	10.00	0.00
11,600.0	90.00	0.47	11,158.0	320.2	399.6	340.7	0.02	0.00	-0.02
11,700.0	90.00	0.45	11,158.0	420.2	400.4	440.6	0.02	0.00	-0.02
11,800.0	90.00	0.42	11,158.0	520.2	401.1	540.5	0.02	0.00	-0.02
11,900.0	90.00	0.40	11,158.0	620.2	401.8	640.4	0.02	0.00	-0.02
12,000.0	90.00	0.38	11,158.0	720.2	402.5	740.3	0.02	0.00	-0.02
12,100.0	90.00	0.36	11,158.0	820.2	403.2	840.2	0.02	0.00	-0.02
12,200.0	90.00	0.33	11,158.0	920.2	403.8	940.1	0.02	0.00	-0.02
12,300.0	90.00	0.31	11,158.0	1,020.2	404.3	1,040.0	0.02	0.00	-0.02
12,400.0	90.00	0.29	11,158.0	1,120.2	404.8	1,139.9	0.02	0.00	-0.02
12,500.0	90.00	0.27	11,158.0	1,220.2	405.3	1,239.8	0.02	0.00	-0.02
12,600.0	90.00	0.25	11,158.0	1,320.2	405.8	1,339.6	0.02	0.00	-0.02
12,700.0	90.00	0.22	11,158.0	1,420.2	406.2	1,439.5	0.02	0.00	-0.02
12,800.0	90.00	0.20	11,158.0	1,520.2	406.6	1,539.4	0.02	0.00	-0.02
12,900.0	90.00	0.18	11,158.0	1,620.2	406.9	1,639.3	0.02	0.00	-0.02
13,000.0	90.00	0.16	11,158.0	1,720.2	407.2	1,739.2	0.02	0.00	-0.02
13,100.0	90.00	0.13	11,158.0	1,820.2	407.4	1,839.0	0.02	0.00	-0.02
13,200.0	90.00	0.11	11,158.0	1,920.2	407.6	1,938.9	0.02	0.00	-0.02
13,300.0	90.00	0.09	11,158.0	2,020.2	407.8	2,038.8	0.02	0.00	-0.02
13,400.0	90.00	0.07	11,158.0	2,120.2	408.0	2,138.7	0.02	0.00	-0.02
13,500.0	90.00	0.04	11,158.0	2,220.2	408.1	2,238.5	0.02	0.00	-0.02

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)
13,600.0	90.00	0.02	11,158.0	2,320.2	408.1	2,338.4	0.02	0.00	-0.02
13,700.0	90.00	360.00	11,158.0	2,420.2	408.1	2,438.2	0.02	0.00	-0.02
13,800.0	90.00	359.98	11,158.0	2,520.2	408.1	2,538.1	0.02	0.00	-0.02
13,900.0	90.00	359.95	11,158.0	2,620.2	408.0	2,638.0	0.02	0.00	-0.02
14,000.0	90.00	359.93	11,158.0	2,720.2	407.9	2,737.8	0.02	0.00	-0.02
14,100.0	90.00	359.91	11,158.0	2,820.2	407.8	2,837.7	0.02	0.00	-0.02
14,200.0	90.00	359.89	11,158.0	2,920.2	407.6	2,937.5	0.02	0.00	-0.02
14,300.0	90.00	359.87	11,158.0	3,020.2	407.4	3,037.4	0.02	0.00	-0.02
14,400.0	90.00	359.84	11,158.0	3,120.2	407.2	3,137.2	0.02	0.00	-0.02
14,500.0	90.00	359.82	11,158.0	3,220.2	406.9	3,237.1	0.02	0.00	-0.02
14,600.0	90.00	359.80	11,158.0	3,320.2	406.5	3,336.9	0.02	0.00	-0.02
14,700.0	90.00	359.78	11,158.0	3,420.2	406.2	3,436.8	0.02	0.00	-0.02
14,800.0	90.00	359.75	11,158.0	3,520.2	405.8	3,536.6	0.02	0.00	-0.02
14,900.0	90.00	359.73	11,158.0	3,620.1	405.3	3,636.4	0.02	0.00	-0.02
14,932.9	90.00	359.72	11,158.0	3,653.1	405.1	3,669.3	0.02	0.00	-0.02
15,000.0	90.00	359.72	11,158.0	3,720.1	404.8	3,736.3	0.00	0.00	0.00
15,100.0	90.00	359.72	11,158.0	3,820.1	404.3	3,836.1	0.00	0.00	0.00
15,200.0	90.00	359.72	11,158.0	3,920.1	403.9	3,935.9	0.00	0.00	0.00
15,300.0	90.00	359.72	11,158.0	4,020.1	403.4	4,035.8	0.00	0.00	0.00
15,400.0	90.00	359.72	11,158.0	4,120.1	402.9	4,135.6	0.00	0.00	0.00
15,500.0	90.00	359.72	11,158.0	4,220.1	402.4	4,235.5	0.00	0.00	0.00
15,600.0	90.00	359.72	11,158.0	4,320.1	401.9	4,335.3	0.00	0.00	0.00
15,700.0	90.00	359.72	11,158.0	4,420.1	401.5	4,435.1	0.00	0.00	0.00
15,800.0	90.00	359.72	11,158.0	4,520.1	401.0	4,535.0	0.00	0.00	0.00
15,900.0	90.00	359.72	11,158.0	4,620.1	400.5	4,634.8	0.00	0.00	0.00
16,000.0	90.00	359.72	11,158.0	4,720.1	400.0	4,734.6	0.00	0.00	0.00
16,100.0	90.00	359.72	11,158.0	4,820.1	399.5	4,834.5	0.00	0.00	0.00
16,200.0	90.00	359.72	11,158.0	4,920.1	399.0	4,934.3	0.00	0.00	0.00
16,300.0	90.00	359.72	11,158.0	5,020.1	398.6	5,034.1	0.00	0.00	0.00
16,400.0	90.00	359.72	11,158.0	5,120.1	398.1	5,134.0	0.00	0.00	0.00
16,500.0	90.00	359.72	11,158.0	5,220.1	397.6	5,233.8	0.00	0.00	0.00
16,600.0	90.00	359.72	11,158.0	5,320.1	397.1	5,333.6	0.00	0.00	0.00
16,700.0	90.00	359.72	11,158.0	5,420.1	396.6	5,433.5	0.00	0.00	0.00
16,800.0	90.00	359.72	11,158.0	5,520.1	396.2	5,533.3	0.00	0.00	0.00
16,900.0	90.00	359.72	11,158.0	5,620.1	395.7	5,633.1	0.00	0.00	0.00
17,000.0	90.00	359.72	11,158.0	5,720.1	395.2	5,733.0	0.00	0.00	0.00
17,100.0	90.00	359.72	11,158.0	5,820.1	394.7	5,832.8	0.00	0.00	0.00
17,200.0	90.00	359.72	11,158.0	5,920.1	394.2	5,932.7	0.00	0.00	0.00
17,300.0	90.00	359.72	11,158.0	6,020.1	393.7	6,032.5	0.00	0.00	0.00
17,400.0	90.00	359.72	11,158.0	6,120.1	393.3	6,132.3	0.00	0.00	0.00
17,500.0	90.00	359.72	11,158.0	6,220.1	392.8	6,232.2	0.00	0.00	0.00
17,600.0	90.00	359.72	11,158.0	6,320.1	392.3	6,332.0	0.00	0.00	0.00
17,700.0	90.00	359.72	11,158.0	6,420.1	391.8	6,431.8	0.00	0.00	0.00
17,800.0	90.00	359.72	11,158.0	6,520.1	391.3	6,531.7	0.00	0.00	0.00

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FED COM 514H
Project:	LEA	TVD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3462.3+26 @ 3488.3ft (HP 489)
Well:	JULIET FED COM 514H	North Reference:	True
Wellbore:	JULIET FED COM 514H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
17,900.0	90.00	359.72	11,158.0	6,620.1	390.9	6,631.5	0.00	0.00	0.00	
18,000.0	90.00	359.72	11,158.0	6,720.1	390.4	6,731.3	0.00	0.00	0.00	
18,100.0	90.00	359.72	11,158.0	6,820.1	389.9	6,831.2	0.00	0.00	0.00	
18,200.0	90.00	359.72	11,158.0	6,920.1	389.4	6,931.0	0.00	0.00	0.00	
18,300.0	90.00	359.72	11,158.0	7,020.1	388.9	7,030.8	0.00	0.00	0.00	
18,400.0	90.00	359.72	11,158.0	7,120.1	388.4	7,130.7	0.00	0.00	0.00	
18,500.0	90.00	359.72	11,158.0	7,220.1	388.0	7,230.5	0.00	0.00	0.00	
18,600.0	90.00	359.72	11,158.0	7,320.1	387.5	7,330.4	0.00	0.00	0.00	
18,643.6	90.00	359.72	11,158.0	7,363.7	387.3	7,373.9	0.00	0.00	0.00	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude		Longitude
LTP/BHL - JULIET FED - plan hits target center - Circle (radius 50.0)	0.00	0.00	11,158.0	7,363.7	387.3	3,564,756.55	645,307.85	32° 12' 36.042 N		103° 27' 29.448 W
FTP - JULIET FED COM - plan misses target center by 237.8ft at 11054.0ft MD (10990.8 TVD, -181.2 N, 395.3 E) - Circle (radius 50.0)	0.00	0.00	11,158.0	-350.3	394.5	3,562,405.60	645,343.74	32° 11' 19.700 N		103° 27' 29.365 W

Checked By: _____	Approved By: _____	Date: _____
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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.

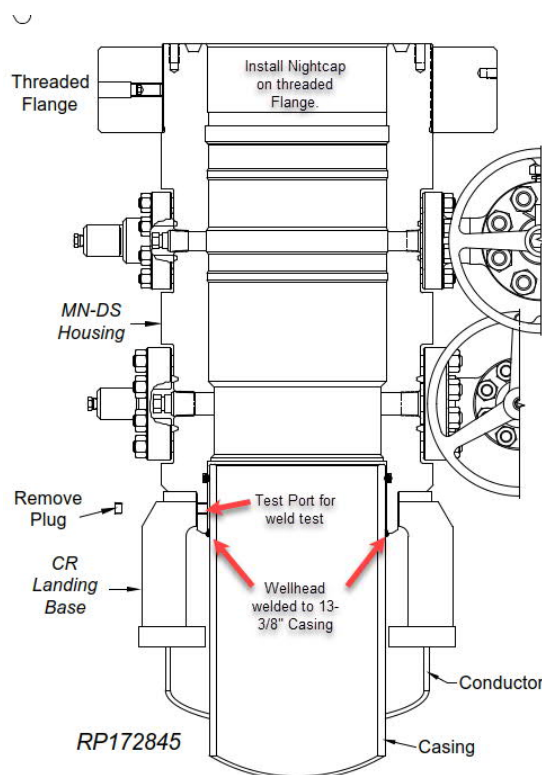


Illustration 1-1

- 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

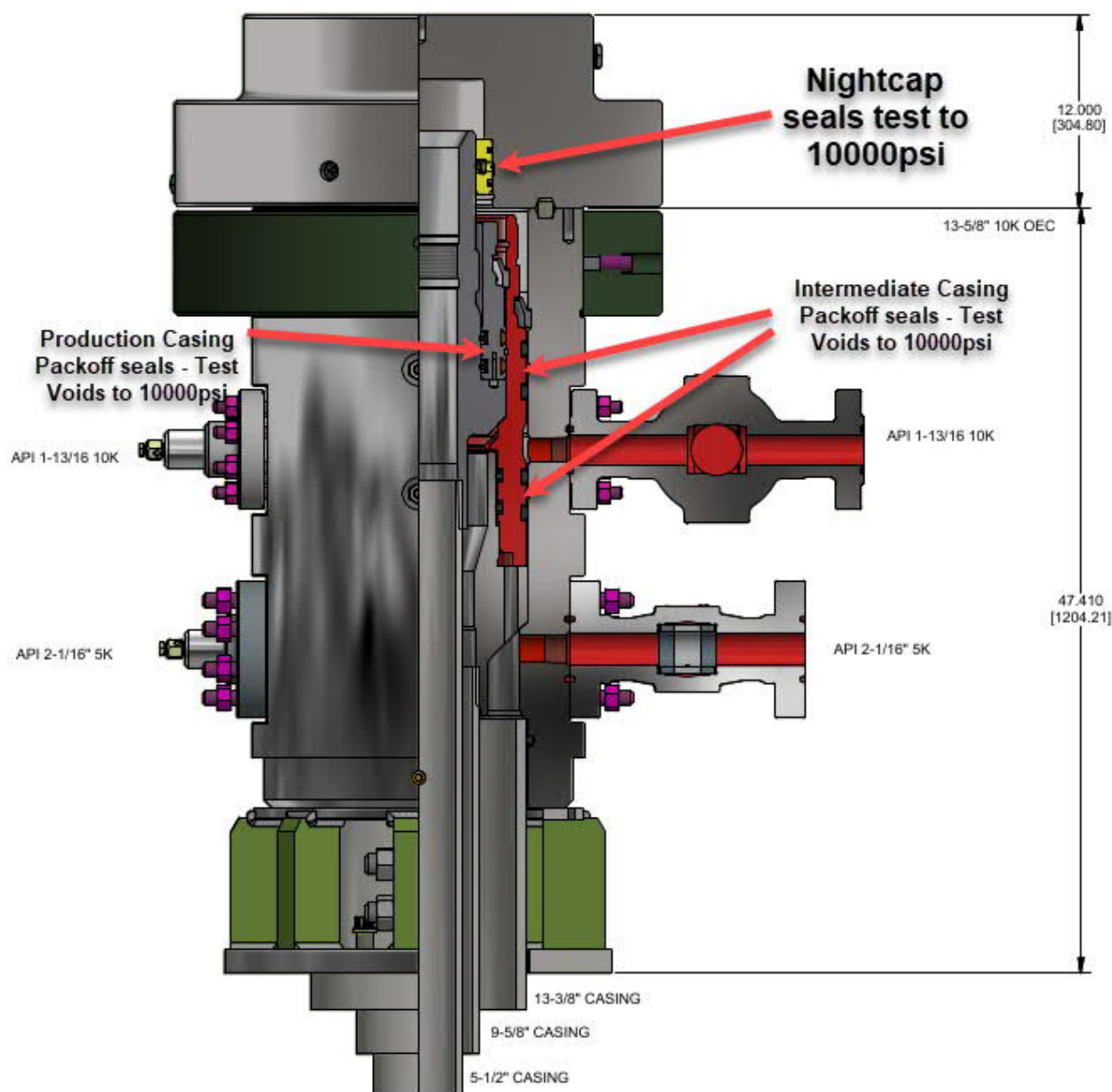
➤ Wolfcamp Formations

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.

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

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 11/02/2020

☒ Original Operator & OGRID No.: Centennial Resource Production, LLC 372165
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Juliet Federal Com 513H	Pending	F-27-24S-34E	2189 FNL & 2111 FWL	1986 MCF/D	Neither	New Well
Juliet Federal Com 514H	Pending	F-27-24S-34E	2189 FNL & 2146 FWL	1950 MCF/D	Neither	New Well

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated Lucid Energy Group low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. Centennial Resource Production, LLC provides (periodically) to Lucid Energy Group a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Centennial Resource Production, LLC and Lucid Energy Group have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Red Hills Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Lucid Energy Group system at that time. Based on current information, it is Centennial Resource Production, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

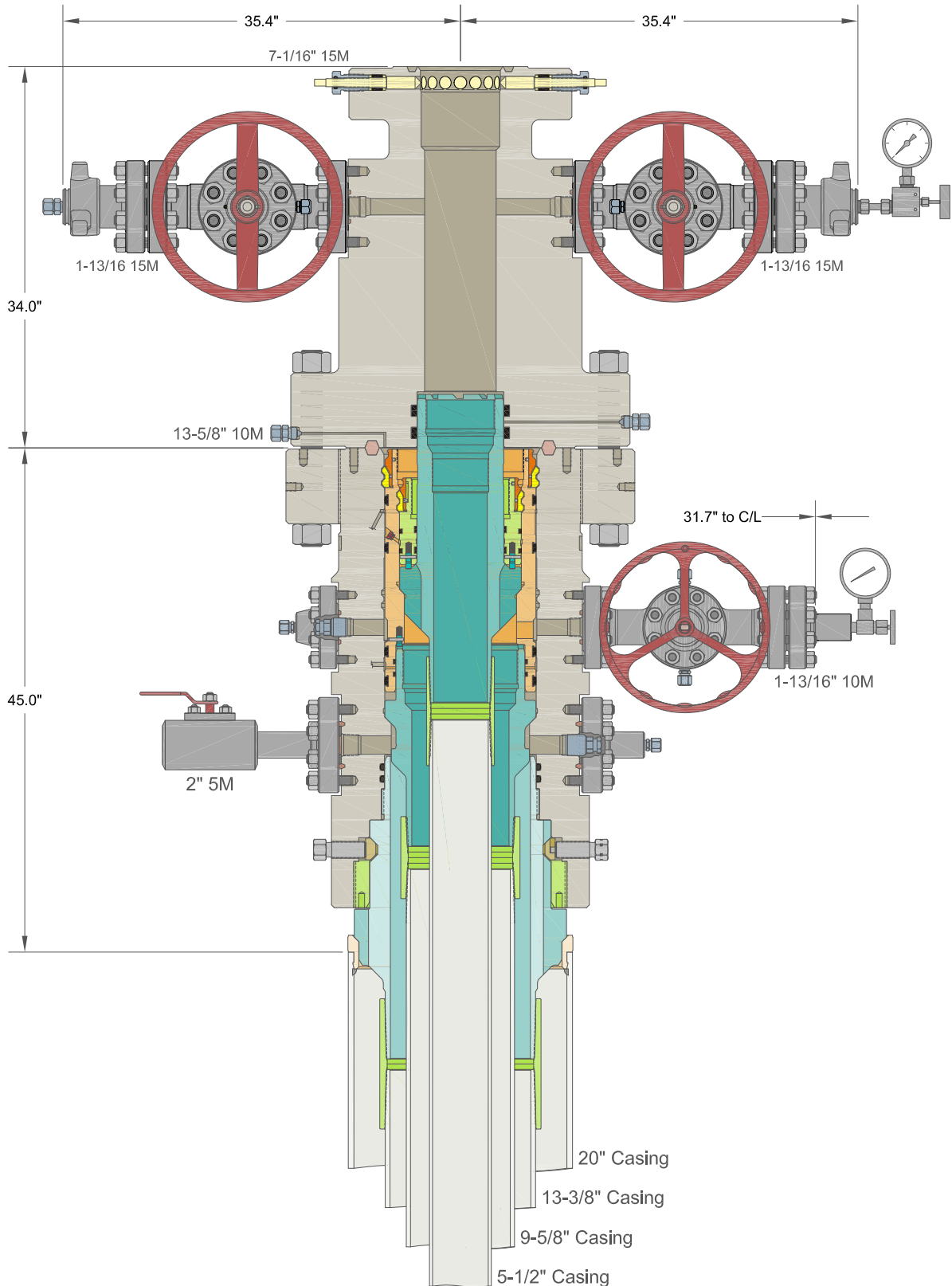
- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Juliet Fed Com 514H

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 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.
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.



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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

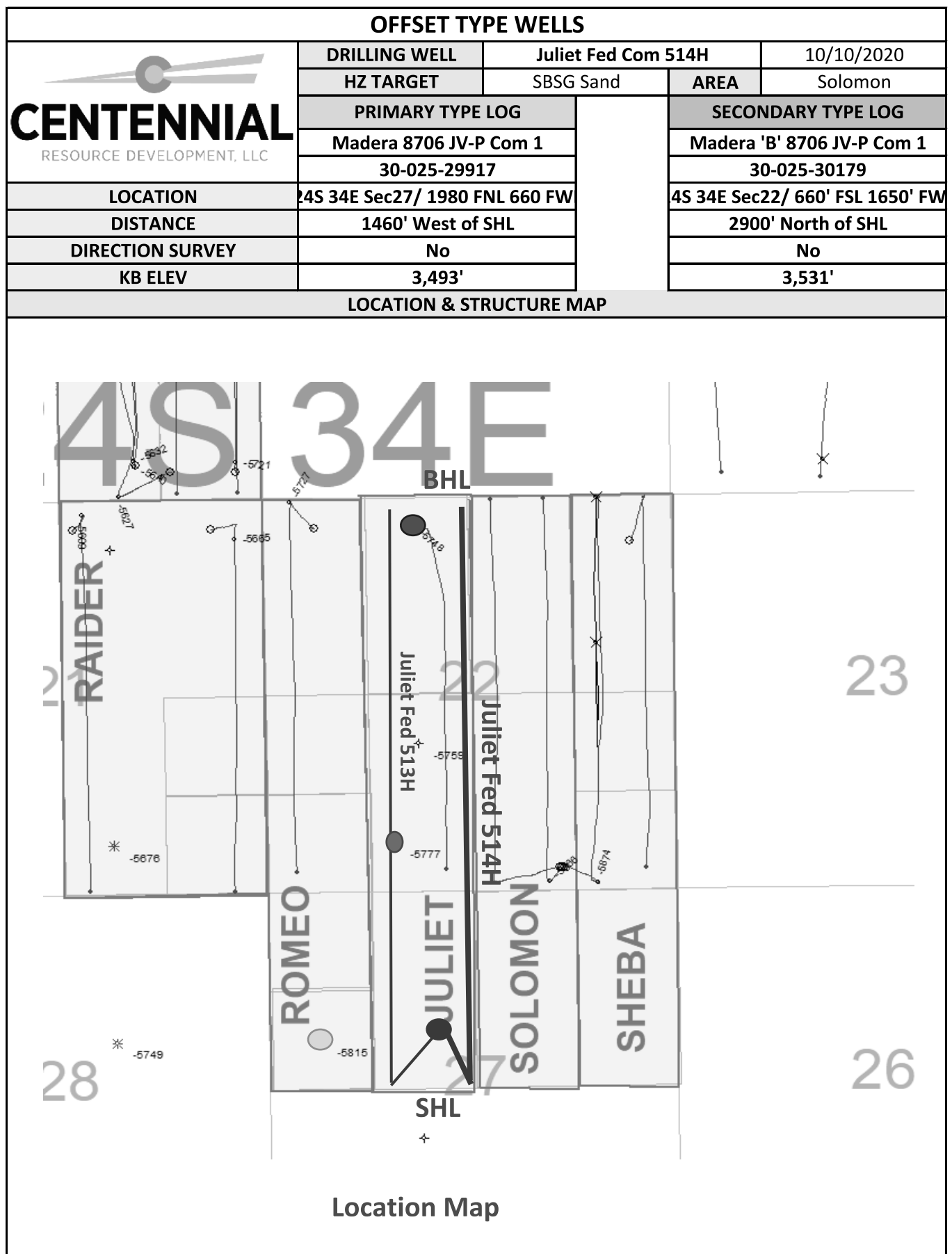
GEOLOGIC PROG

			WELL NAME		Juliet Fed Com 514H		10/10/2020	
			AREA		Solomon		API	
			HZ TARGET		SBSG Sand		WI %	
			LAT LENGTH		7,700		AFE#	
			TRRC PERMIT				COUNTY	
	TWNP	RNG	SECTION	FOOTAGE		COMMENT		
SHL	24S	34E	27	2189' FNL 2146' FWL		On lease. Drill S to N.		
FTP/PP	24S	34E	27	2539' FNL 2540' FWL				
LTP	24S	34E	22	100' FNL 2540' FWL				
BHL	24S	34E	22	100' FNL 2540' FWL				
			GROUND LEVEL	3,462'	RIG KB	26'	KB ELEV	3,488'
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			1,096'	2,392'	619'			
Salado			1,715'	1,773'	2,042'			
BX BLM (Fletcher Anhydrite)			3,757'	-269'	1,619'			
Lamar			5,376'	-1,888'	72'			
Bell Canyon			5,448'	-1,960'	900'			
Cherry Canyon			6,348'	-2,860'	218'			
Manzanita Lime			6,566'	-3,078'	1,337'			
Brushy Canyon			7,903'	-4,415'	1,390'			
Bone Spring Lime			9,293'	-5,805'	21'			
Avalon			9,314'	-5,826'	942'			
First Bone Spring Sand			10,256'	-6,768'	201'			
Second Bone Spring Shale			10,457'	-6,969'	316'			
Second Bone Spring Sand			10,773'	-7,285'	1,056'			
Third Bone Spring Sand			11,829'	-8,341'	385'			
Wolfcamp			12,214'	-8,726'				
Target Top at 0' VS			11,133'	-7,645'	50'			
Target Base at 0' VS			11,183'	-7,695'				
HZ TARGET AT 0' VS			11,158'	-7,670'				
TARGET: KBTVD = 11158' at VS, INC = 90.0 deg Target Window +10/-10'								
COMMENT:								

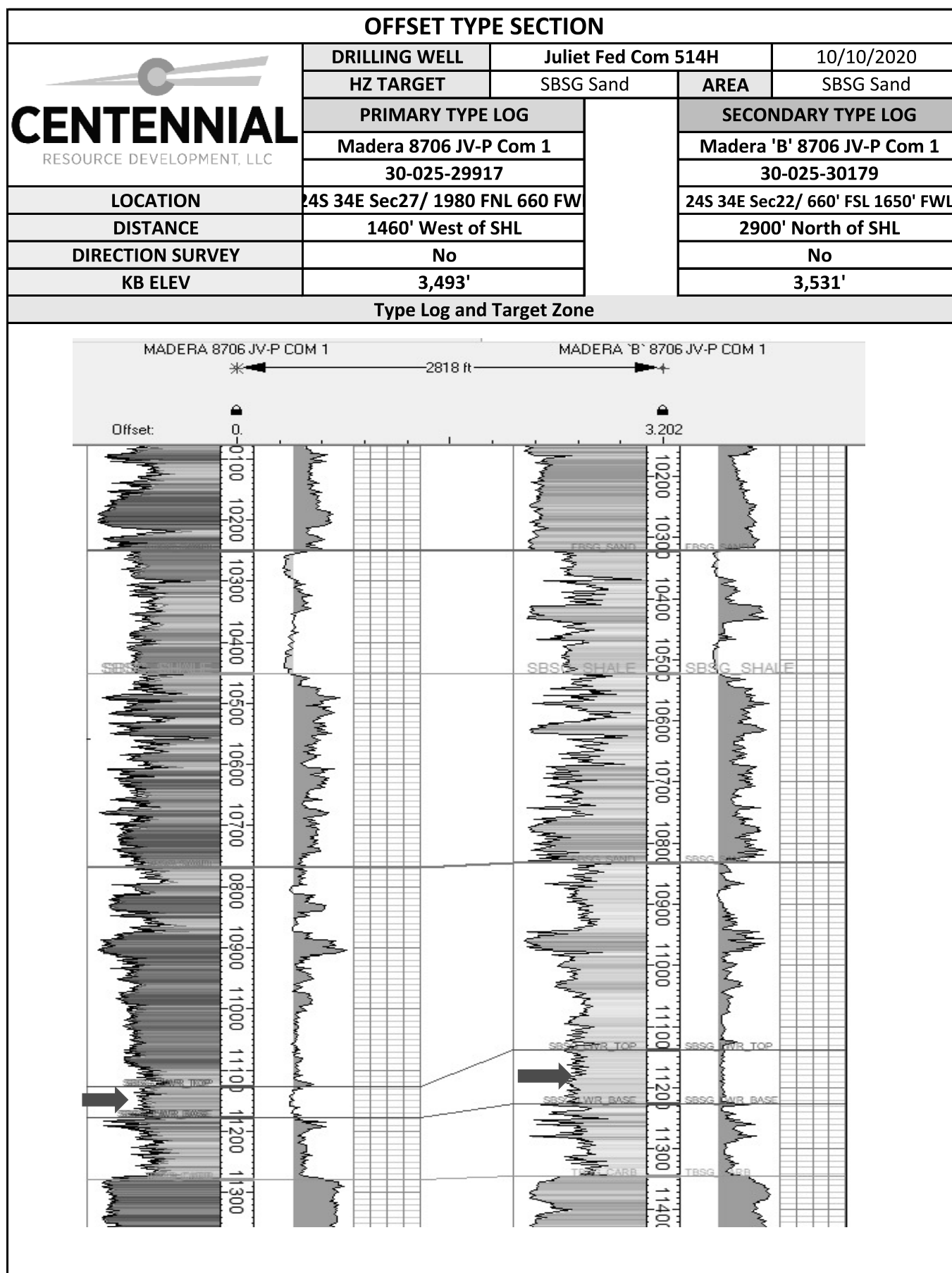
GEOLOGIC PROG

OFFSET TYPE WELLS								
	DRILLING WELL		Juliet Fed Com 514H		10/10/2020			
	HZ TARGET		SBSG Sand		AREA	Solomon		
	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 FWL			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'			
FORMATION		TVD	SSTVD		DELTA	TVD	SSTVD	DELTA
Rustler		1,091'	2,402'	619'	1,161'	2,370'		
Salado		1,710'	1,783'	2,042'	1,778'	1,753'		
BX BLM (Fletcher Anhydrite)		3,752'	-259'	1,619'	3,831'	-300'	1,570'	
Lamar		5,371'	-1,878'	72'	5,401'	-1,870'	55'	
Bell Canyon		5,443'	-1,950'	900'	5,456'	-1,925'	915'	
Cherry Canyon		6,343'	-2,850'	218'	6,371'	-2,840'	211'	
Manzanita Lime		6,561'	-3,068'	1,337'	6,582'	-3,051'	1,287'	
Brushy Canyon		7,898'	-4,405'	1,390'	7,869'	-4,338'	1,411'	
Bone Spring Lime		9,288'	-5,795'	21'	9,280'	-5,749'	28'	
Avalon		9,309'	-5,816'	942'	9,308'	-5,777'	1,015'	
First Bone Spring Sand		10,251'	-6,758'	201'	10,323'	-6,792'	200'	
Second Bone Spring Shale		10,452'	-6,959'	316'	10,523'	-6,992'	821'	
Second Bone Spring Sand		10,768'	-7,275'	1,056'	11,344'	-7,813'	537'	
Third Bone Spring Sand		11,824'	-8,331'	385'	11,881'	-8,350'	398'	
Wolfcamp		12,209'	-8,716'		12,279'	-8,748'		
Reservoir Top		11,128'	-7,635'	50'	11,140'	-7,609'	87'	
Reservoir Base		11,178'	-7,685'		11,227'	-7,696'		
Comments								

GEOLOGIC PROG




GEOLOGIC PROG



GEOLOGIC PROG

GEOPHYSICAL DATA
POTENTIAL GEOHAZARDS
SEISMIC DISPLAYS

GEOLOGIC PROG

MUD LOG DISTRIBUTION DETAILS				
	WELL NAME		Juliet Fed Com 514H	
	AREA		Solomon	API
	HZ TARGET		SBSG 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 Joplin		
Drilling: Ronny Hise		Mineral Land: Gavin Smith		

CENTENNIAL

WBD

Well : Juliet Federal Com 514H

Area : Solomon

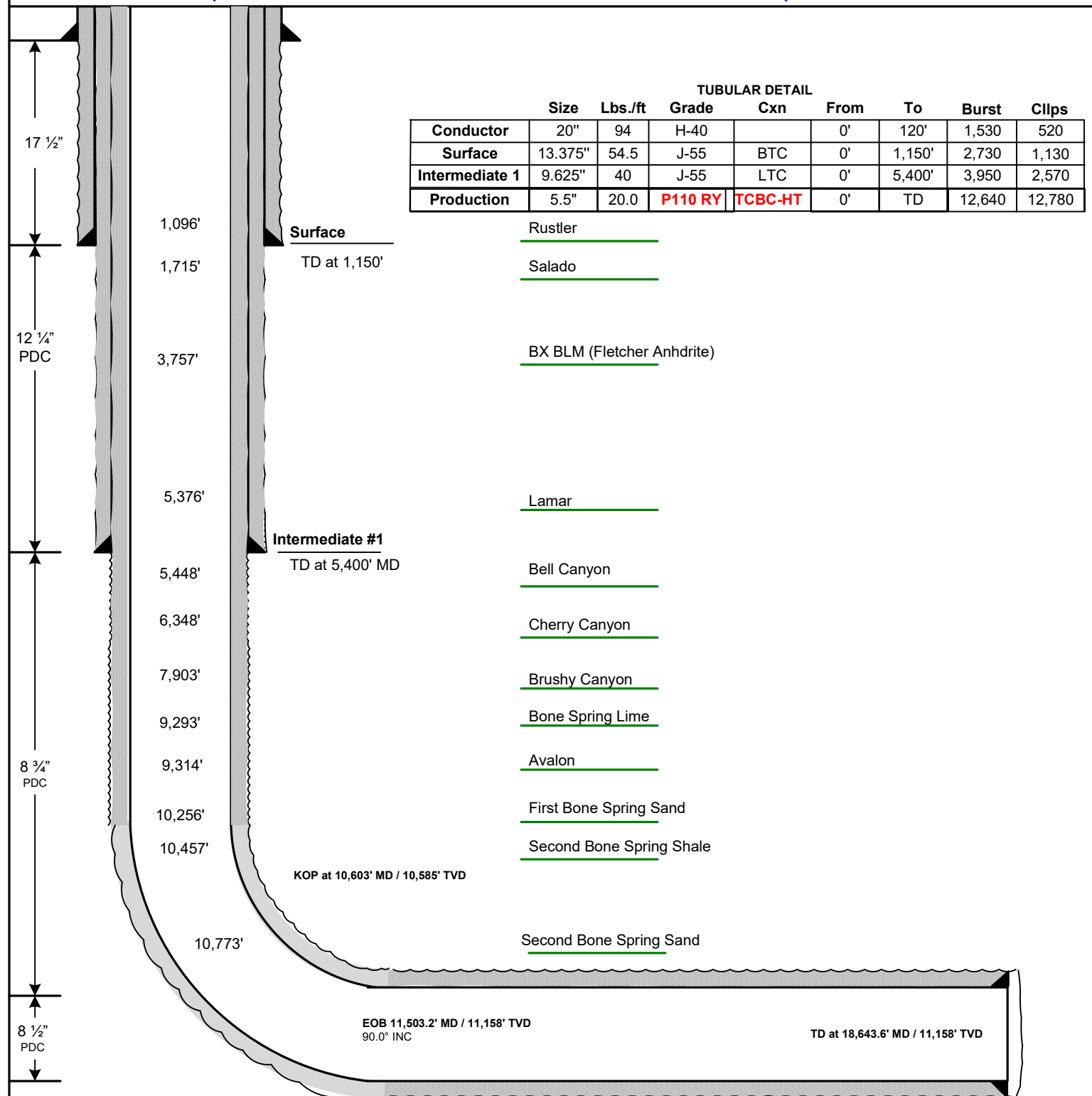
FM tgt: 2nd BSS (lower)

County : Lea State : NM

Location : Lot F Section 27, T24S, R34E; 2,189' FNL & 2,146' FWL

BHL : Lot C, Section 22, T24S, R34E; 100' FNL & 2,540' FWL

KB Elev : 3,488.8' MSL KB : 26.5' AGL GL Elev : 3,462.3' MSL





ContiTech

CONTITECH RUBBER
Industrial Kft.

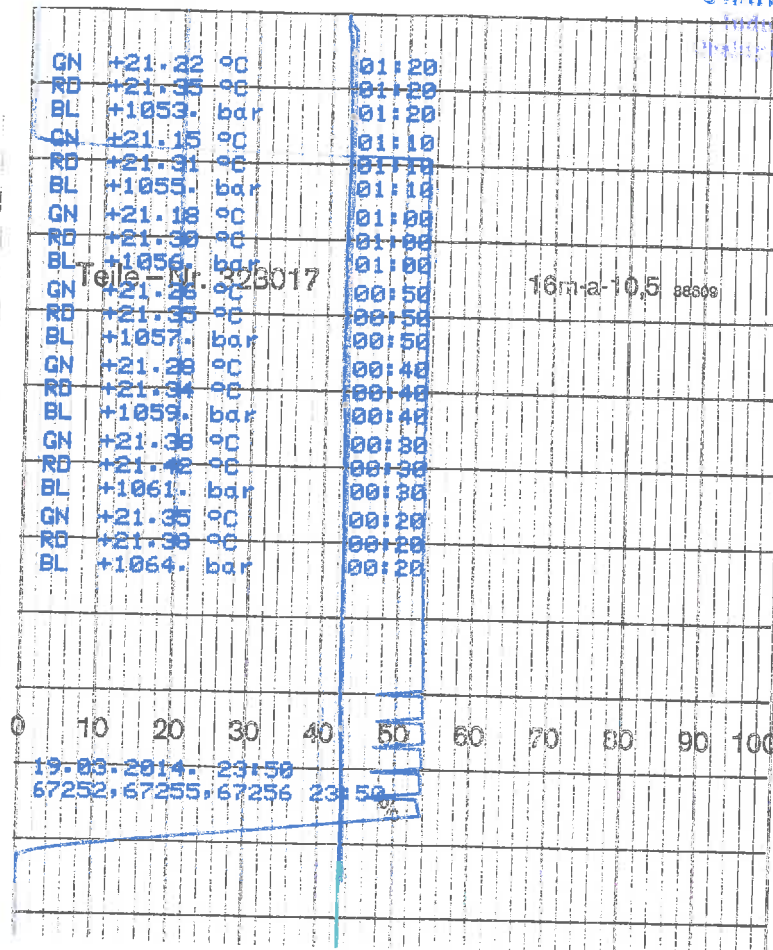
No:QC-DB- 210/ 2014

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.
<p>Pressure test with water at ambient temperature</p> <p style="text-align: center;">See attachment. (1 page)</p> <p>↑ 10 mm = 10 Min. → 10 mm = 20 MPa</p>					
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.			

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 501, 504, 505

Page: 1 / 1





CONTITECH RUBBER
Industrial Kft.

No:QC-DB- 210/ 2014

Page: 15 / 113

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

04/20/2021

APD ID: 10400064717

Submission Date: 11/02/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

[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:** 514H**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:** 514H

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: 514H

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: 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

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

Disposal type description:

Disposal location description: Haul to state approve facility.

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC**Well Name:** JULIET FEDERAL COM**Well Number:** 514H**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**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**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:** 514H

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: 514H

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:** 514H**Seed Management****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation attachment:****Operator Contact/Responsible Official Contact Info****First Name:** Jamon**Last Name:** Hohensee**Phone:** (432)315-0132**Email:** jamon.hohensee@cdevinc.com**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:****Other surface owner description:****BIA Local Office:****BOR Local Office:**

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

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:

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

Previous Onsite information:

Other SUPO Attachment

Juliet_Fed_Com_113H__114H__312H__513H__514H__713H_SUPO_20201102010339.pdf



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

PWD Data Report

04/20/2021

APD ID: 10400064717

Submission Date: 11/02/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

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:

Describe 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: 514H

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: 514H

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: 514H

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

04/20/2021

APD ID: 10400064717

Submission Date: 11/02/2020

Highlighted data
reflects the most
recent changes

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: JULIET FEDERAL COM

Well Number: 514H

[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 30-025-49016	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 514H
		⁹ Elevation 3462.3'

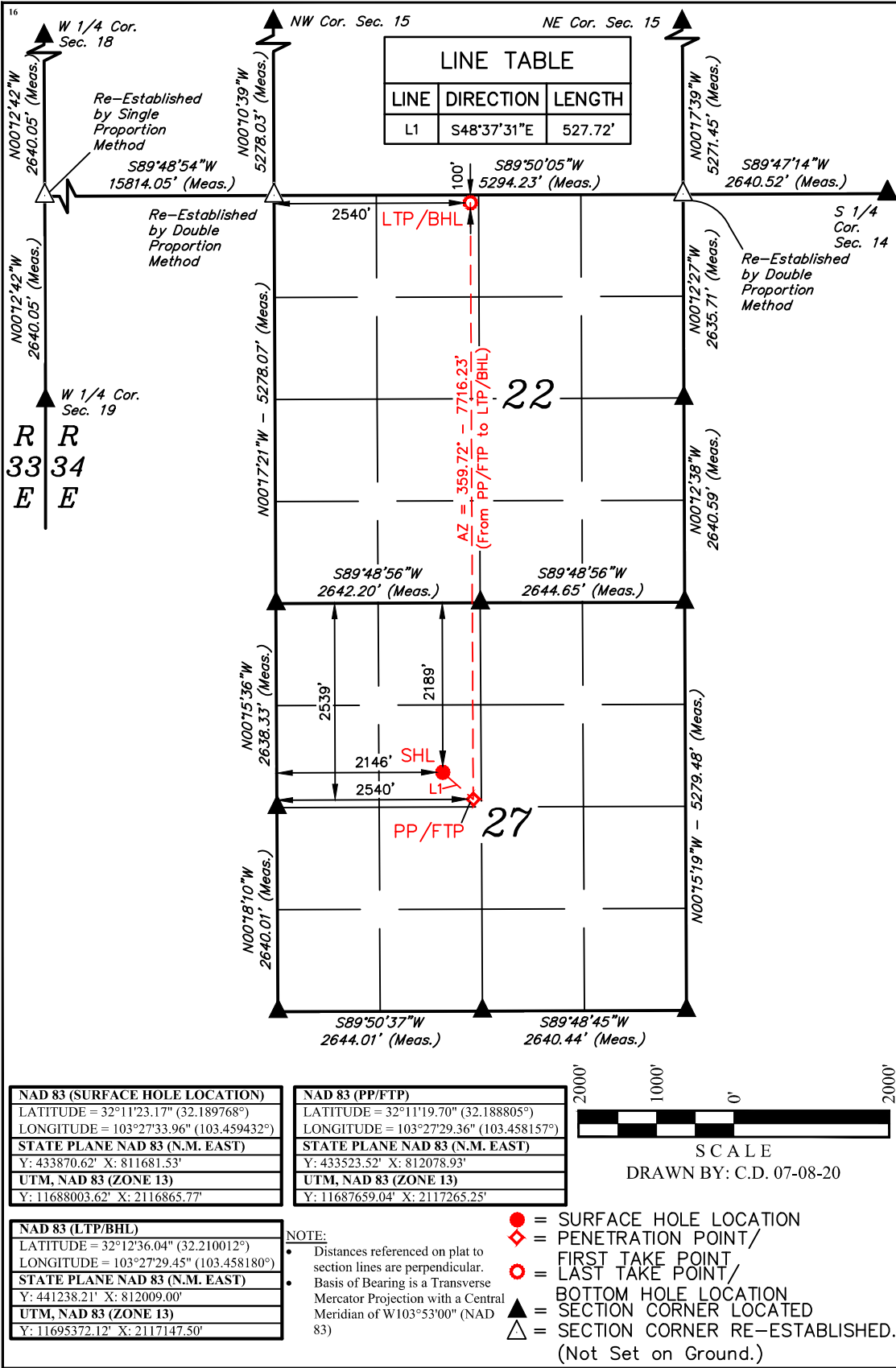
¹⁰ Surface Location

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		2189	NORTH	2146	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

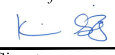
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	24S	34E		100	NORTH	2540	WEST	LEA
¹² Dedicated Acres 240		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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.

 11/9/2020

Signature Date

Kanicia Schlichting

Printed Name

kanicia.schlichting@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:



Certificate Number:

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°11'23.17" (32.189768°) LONGITUDE = 103°27'33.96" (103.459432°) STATE PLANE NAD 83 (N.M. EAST) Y: 433870.62' X: 811681.53' UTM, NAD 83 (ZONE 13) Y: 11688003.62' X: 2116865.77'	NAD 83 (PP/FTP) LATITUDE = 32°11'19.70" (32.188805°) LONGITUDE = 103°27'29.36" (103.458157°) STATE PLANE NAD 83 (N.M. EAST) Y: 433523.52' X: 812078.93' UTM, NAD 83 (ZONE 13) Y: 11687659.04' X: 2117265.25'
NAD 83 (LTP/BHL) LATITUDE = 32°12'36.04" (32.210012°) LONGITUDE = 103°27'29.45" (103.458180°) STATE PLANE NAD 83 (N.M. EAST) Y: 441238.21' X: 812009.00' UTM, NAD 83 (ZONE 13) Y: 11695372.12' X: 2117147.50'	NOTE: <ul style="list-style-type: none">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.)

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

COMMENTS

Action 24874

COMMENTS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 24874
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
pkautz	Hold waiting for new C-102	5/6/2021

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/14/2021
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	6/14/2021