

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

JUL 25 2014

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM92160
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: ARICKA EASTERLING E-Mail: aeasterling@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 918-560-7060 Fx: 918-749-8059	7. If Unit or CA/Agreement, Name and/or No. NMNM120212
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T25S R26E NWSE 1980FSL 1580FEL		8. Well Name and No. TRINITY 20 FEDERAL COM 1
		9. API Well No. 30-015-34521-00-S1
		10. Field and Pool, or Exploratory COTTONWOOD DRAW; upper Perm
		11. County or Parish, and State EDDY COUNTY, NM <97354>

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BJA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex respectfully requests approval to plug back the Trinity 20 Federal Com 1 Well according to the following procedure.

1. Abandon current Morrow Perfs (11551 - 11577). Set Cast iron bridge plug @ 11520 @ dump=35' cement on top. *Take minimum of 11,082'*
2. Pressure test casing.
3. Perf Cisco Canyon (10124-10387) and acidize w/ 5000 gal acid, 211000 gal slickwater, 100000 gal linear gel, 100000# 100 mesh sand & 200000# 40/70 sand.
4. Establish Cisco Canyon production
5. Set flow thru composite plug @ 10116 and test casing/
6. Perf wolfcamp (9114 - 9938) and acidize w/ 7500 gal acid, 732374 gal-slickwater, 32500 gal linear gel, 375000# 100 Mesh sand, & 725000 40/70 sand.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**
*Attached in the
back!*

Accepted for record
NMOCDC
7-29-14

14. I hereby certify that the foregoing is true and correct. Electronic Submission #247203 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad Committed to AFMSS for processing by CATHY QUEEN on 05/28/2014 (14CQ0044SE)	
Name (Printed/Typed) ARICKA EASTERLING	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/28/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
Conditions of approval, if any, are attached. Approval of this notice 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.	Office
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.	

APPROVED
JUL 22 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Additional data for EC transaction #247203 that would not fit on the form

32. Additional remarks, continued

7. Drill out plug & flow well.
8. Request DHC approval up results of Cisco Canyon & Wolfcamp production.
9. DHC approval received- Drill out CBP b& commingle Cisco & Wolfcamp.
10. Return well to production.



Well Data Sheet

05/23/14

Lease Trinity 20 Federal Com Well No. 1 API No. 30-015-34521

Location 1980' FSL & 1580' FEL Section 20 Township 25S Range 26E

Unit Letter J County Eddy State New Mexico Field Chosa Draw

Date Completed 05/25/2007 Elevations: GL 3430' KB 3449'

Initial Potential IPF 0 BO/6 BW/785 MCFPD

TD 12280' PBTD 12230' Current Status Active

Current Producing Zones Morrow (11551' - 11577')

Previous Producing Zones None

Packer Type Arrowset 1-X Set At 11480' Profile None

Rods None

Pump None

Casing, Liner, and Tubing Record

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
13-3/8"	48#	H-40	ST&C	310'	340 sx	Cmt circ
9-5/8"	40#	J-55	LT&C	2665'	830 sx	Cmt circ
5 1/2" 4-1/2"	11.6#	P-110	LT&C	12280'	240 sx	DV - 7893'
2-3/8"	4.7#	L-80	8rd	11480'		352 jts

Completion & Workover Data

Date	Description
05/2007	Perforated Morrow 6 JSPF (12551' - 77'). Broke down Morrow perfs (11551' - 77') w/ 7% KCl. Frac Morrow perfs (11551' - 77') down csg w/ 33,810 gals foam & 91,240# 16/40 Versaprop.

per correction survey 10/24/2012



KB : 19' above GL

Cimarex Energy Co. of Colorado

Trinity 20 Federal Com #1

1980' FSL & 1580' FEL

Sec. 20, T-25-S, R-26-E, Eddy Co., NM

H. Hubbard

04/29/2014

13-3/8", 48# H-40 csg @ 310'
cmtd w/ 340 sx, cmt circ

TOC @ 2620' by CBL
9-5/8", 40# J-55 csg @ 2665'
cmtd w/ 830 sx, cmt circ

352 jts 2 3/8" 4.7# L-80 Tbg

DV Tool @ 7893'
cmtd w/ 1135 sx

Gas Lift Valves @ 2494', 4589', 6481',
8108', 9544', 10785', 11442'

Arrowset 1-X pkr @ 11480'

Morrow perms (11551' - 11577')

PBTD @ 12230'
4-1/2" 11.6# P-110 @ 12280' cmtd w/ 1115 sx
TD @ 12280'



PROPOSED

KB: 19' above GL

Cimarex Energy Co. of Colorado

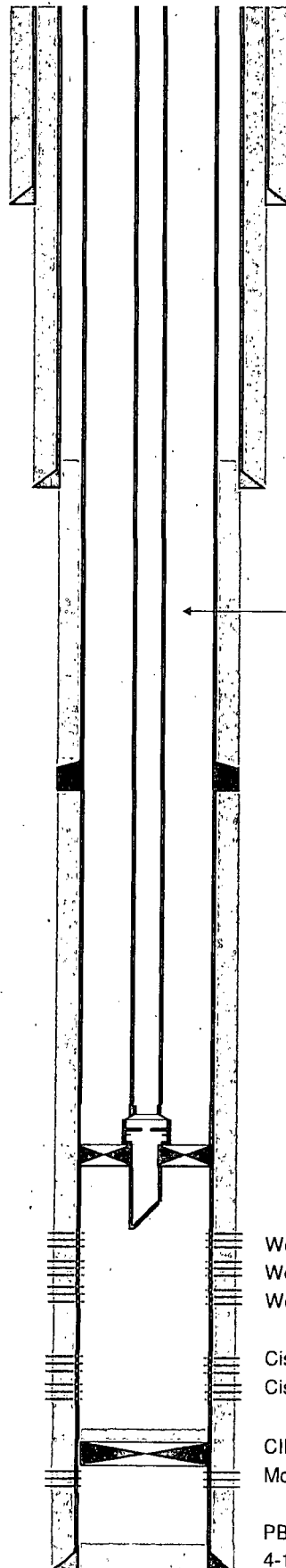
Trinity 20 Federal Com #1

1980' FSL & 1580' FEL

Sec. 20, T-25-S, R-26-E, Eddy Co., NM

H. Hubbard

04/29/2014



13-3/8", 48# H-40 csg @ 310'
cmtd w/ 340 sx, cmt circ

TOC @ 2620' by CBL
9-5/8", 40# J-55 csg @ 2665'
cmtd w/ 830 sx, cmt circ

2-3/8" 4.7# L80 tbg

DV Tool @ 7893'
cmtd w/ 1135 sx

On off tool w/ 1.875 X Profile
Packer @ +/- 9085'
1.875 XN Nipple

Wolfcamp perms (9114' - 9469') *PROPOSED*
Wolfcamp perms (9516' - 9714') *PROPOSED*
Wolfcamp perms (9767' - 9938') *PROPOSED*

Cisco Canyon perms (10124' - 10241') *PROPOSED*
Cisco Canyon perms (10263' - 10387') *PROPOSED*

CIBP w/ 35' cmt
Morrow perms (11551' - 11577')

PBTD @ 12230'
4-1/2" 11.6# P-110 @ 12280' cmtd w/ 1115 sx
TD @ 12280'

Gas Lift Valves

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1501 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., 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, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34521	Pool Code	Pool Name Sagedraw; Wolfcamp
Property Code	Property Name TRINITY 20 FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name Cimarex Energy Co. of Colorado	Elevation 3430'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	20	25-S	26-E		1980	SOUTH	1580	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y	P	

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

<p>GEODETIC COORDINATES NAD 27 NME Y=405016.9 N X=506927.7 E LAT.=32°06'48.62" N LONG.=104°18'39.45" W</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Aricka Easterling</i> Signature Aricka Easterling Printed Name Regulatory Analyst Title May 27, 2014 Date</p>
<p>Trinity 20 Fed Com #2</p> <p>660'</p> <p>1980'</p> <p>NM-104661</p>	<p>3440.7'</p> <p>600'</p> <p>3434.9'</p> <p>600'</p> <p>1580'</p> <p>3422.0'</p> <p>3421.1'</p> <p>1980'</p> <p>NM-92160</p> <p>Trinity 20 Fed Com #1</p>	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 09, 2005</p> <p>Date Surveyed _____ JR</p> <p>Signature & Seal of Professional Surveyor <i>Ronald J. Rindson</i> RONALD J. RINDSON 205.111757 Certificate No. GARY RINDSON 12841 RONALD J. RINDSON 3230</p>



Cimarex Energy - Trinity 20 Federal Com 1 Recompletion

Hillary Hubbard <hhubbard@cimarex.com>

Mon, Jul 21, 2014 at 4:52 PM

To: "jamason@blm.gov" <jamason@blm.gov>

Jennifer,

Below is a detailed summary to date for the work we have done thus far on the recompletion of the Trinity 20 Federal Com 1 well from the Morrow to the Cisco Canyon & Wolfcamp formations. Attached is the completion report that I pulled from the NMOCD website that I am assuming you were referring to when mentioning that we have perms from 11,151' – 11,577'. If you notice, under section 26. Perforation Record, it does indeed state that the perforated interval was 11,151' – 11,577'. However, under section 27. Acid, Fracture, Treatment, Cement Squeeze, etc. you will notice that the "Depth Interval" notes the perforation interval 11,551' – 11,577', meaning that this 11,151' in section 26 was a typo. For further confirmation, I've attached the original morning completion report from 2007 which states the correct perforated interval to be 11,551' – 11,577'. I've notified our regulatory department of this error in case we need to submit a corrected copy. That being said, without these perms uphole like we had discussed, this doesn't explain the lost cmt. We are scratching our heads a little bit on where it would have gone, unless we are over-pressuring the CIBP, causing it to move slightly enough to allow cement to pass below it. Please let me know if there's any additional information that I can provide for you.

Work performed to date:

7/10/2014 – RIH w/ 3.5 CIBP & set @ 11,525'. Tagged plug. Spotted 3 sx cmt on top of plug w/ dump bailer. Shut down for night.

7/11/2014 – Tried to pressure test, but well would not pressure up. Pump 360 bbls FW down csg to keep well dead, but kept drinking all the fluid. Shut down until Monday.

7/14/2014 – RIH w/ pkr & tbg. Test to 8000 psi. Held pressure. Set pkr @ 11,471', tbg capacity = 44.28 bbls, but pumped 50 bbls and never caught fluid. Tbg on vacuum. RIH until tagged CIBP @ 11,525', never felt cmt. Set pkr @ 11,450, loaded annulus, held 2000 psi for 5 mins. Set pkr @ 11,487', loaded annulus, held 2000 psi for 5 mins. Set pkr @ 11,506', loaded annulus, held 2000 psi for 5 mins. Shut down for night.

7/15/2014 – RIH w/ 3.5 CIBP, tagged old plug @ 11,525'. Set CIBP @ 11,506'. Pressure tested csg to 2100 psi for 15 mins. Dumped 35' cmt on top of plug with dump bailer. (Tagged plug with dump bailer before dumping cmt.) Shut down for night.

7/16/2014 – Pressure test csg to 1950 psi, bled off 100 psi in 5 mins, then held for 10 mins. Pressure test to 5000 psi, 5 min shut in lost 80 psi. Shut down for night.

7/17/2014 – Pressured csg to 8075 psi, bled off 349 psi in 5 mins. Shut down for night.

7/18/2014 – Tag plug @ 11,509', never encountered cmt that was dumped on top. Shut down until Monday, wait on orders.

Proposed go-forward procedures:

1. Set 12K-15K CIBP and pressure test to 8000 psi. Dump 35 sx cmt on top. Allow cmt to set overnight. RIH and tag TOC to confirm that it set. Go forward as originally planned. OR,
2. Set 100' cmt plug above top CIBP @ 11,509'. Allow cmt to set 24 hrs. RIH and tag TOC to confirm that it set. Pressure test to 8000 psi. Go forward as originally planned.

Thank you for your help!!

Hillary Hubbard

Permian Production Engineer

Office: (432) 620.1922

Cell: (432) 210.4069

hhubbard@cimarex.com



2 attachments

Full_30015345210000-7-21-2014.pdf
126K

Trinity 20 Fed Com 1 - Morning Completion Rpt - 5-3-2007.pdf
511K

Morning Completion Report

10.00

Trinity 20 Federal Com 1
30-015-34521
Cimarex Energy Company of Colorado
July 22, 2014
Conditions of Approval

Work to be completed by October 22, 2014.

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

- 1. Operator shall set a CIBP at 11,451' and place 40sx Class H cement on top. Tag required at a minimum of 11,082' to ensure the top of the Morrow is covered.**
- 2. Must conduct a casing integrity test before any perforating or fracturing can be done. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Contact the BLM if test fails.**
- 3. Operator is approved to only produce from the Cisco Canyon formation. No DHC shall be done without approval from both the BLM and the State.**
- 4. Operator shall produce solely from the Cisco Canyon formation in order to establish a typical decline curve obtain reservoir data and submit results to the BLM for future DHC review.**

NOTE: A new sundry for a DHC will be needed.

- 5. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**
- 6. Surface disturbance beyond the originally approved pad must have prior approval.**
- 7. Closed loop system required.**
- 8. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.**
- 9. Operator to have H2S monitoring equipment on location.**

10. A minimum of a **3000 (3M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
11. **Subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.**
12. **See attached for general requirements.**

JAM 072214

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

General Requirements for Plug Backs

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822.
3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.
5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. **Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.