

AAPD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
12 2013
NMOCD ARTESIA

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator CIMAREX ENERGY COMPANY Contact: PAULA BRUNSON E-Mail: pbrunson@cimarex.com	5. Lease Serial No. NMMO1085	6. If Indian, Allottee or Tribe Name
3a. Address 600 N MARIENFELD STE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-571-7848	7. If Unit or CA/Agreement, Name and/or No. IRWIN 23-14 FEDERAL 4	8. Well Name and No. IRWIN 23-14 FEDERAL 4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T19S R30E NENE 1300FNL 785FEL	9. API Well No. 30-015-39894	10. Field and Pool, or Exploratory HACKBERRY; BONE SPRING, NW	11. County or Parish, and State EDDY COUNTY, NM

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 type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<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/BIA. 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 Energy respectfully requests the following changes to the APD:

Change the surface casing hole size from 18-1/2" to 20", and the cementing plans as follows:
Surf. Csg: 16", 84#, BTC, J55 csg set & 325'. Cement w/ 470 sx HalCem-C + 2% CaCl₂, Mixed @ 14.8 ppg, 6.39 gal/sk, yield of 1.35 cuft/sk 100% excess. TOC @ surface. Centralizers per Onshore Order 2.III.B.1f

Change 11 3/4" casing grade and weight from 54# J55 to 42# H-40 STC and cement as permitted.

Due to potential losses in the Capitan Reef, change permitted one stage cement job on the 8-5/8" intermediate casing to a two stage job as described below:
After drilling 11" hole to 3,600', set 8 5/8" casing with DV-Tool and ECP at +/- 1900' or depending

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Accepted for record
NMOCD
TOS
2/13/2013

14. I hereby certify that the foregoing is true and correct. Electronic Submission #192600 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 02/06/2013 ()	
Name (Printed/Typed) PAULA BRUNSON	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/30/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	APPROVED FEB 11 2013 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #192600 that would not fit on the form

32. Additional remarks, continued

on depth of losses between 200' of the current shoe (3,600') and 50' of the previous shoe (1,750') and cement as follows:

Stage 1 CIs C 120% Excess

Lead 385 sx EconoCem HLC 12.9 ppg wt 1.88 cf/sk Yld

Tail 200 sx HalCem-C 14.8 ppg wt 1.34 cf/sk Yield

Stage 2 CIs C 60% Excess

Lead 285 sx EconoCem HLC 12.9 ppg Wt 1.88 cf/sk yld

Tail 50 sx HalCem-C 14.8 ppg Wt 1.34 cf/sk yld

Cimarex Energy requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Expected spud date will be on approximately 2/13/13.



Midwest Hose
& Specialty, Inc.

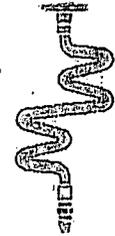
Exhibit F -3- Co-Flex Hose
Maduro Unit No. 10H
Cimarex Energy Co. of Colorado
SHL 29-19S-33E; 330 FNL & 1980 FWL
BHL 32-19S-33E; 2310 FNL & 1980 FWL
Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unbolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Maduro Unit No. 10H
 Cimarex Energy Co. of Colorado
 SHL 29-19S-33E; 330 FNL & 1980 FWL
 BHL 32-19S-33E; 2310 FNL & 1980 FWL
 Lea County, NM



Midwest Hose
& Specialty, Inc.

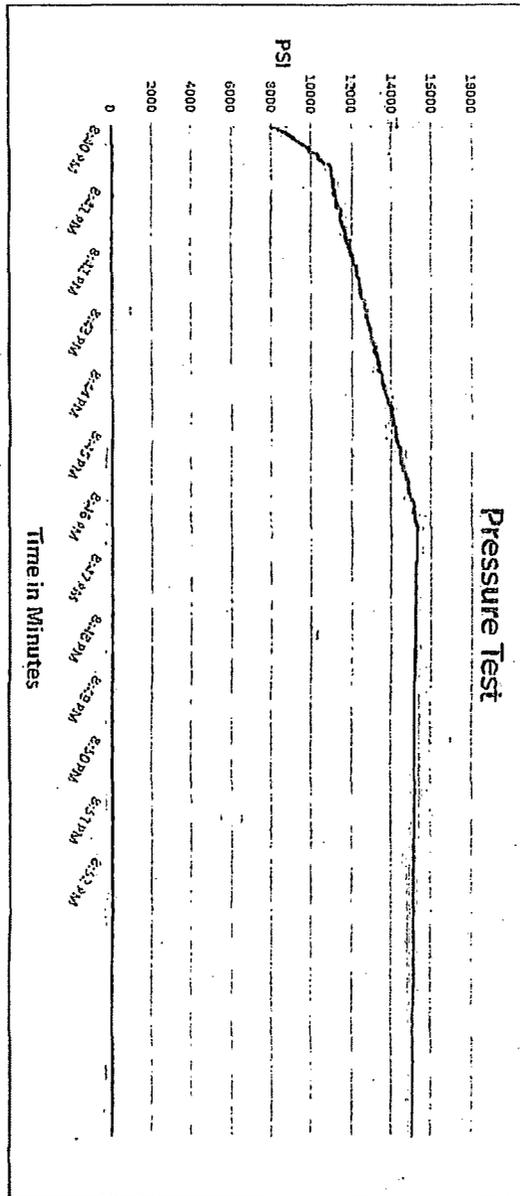
Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

Pick Ticket #: 94260

Hose Specifications		Verification	
Hose Type	C&R	Length	45'
ID	4"	Type of Fittings	4 1/2" TOR
Working Pressure	10000 PSI	Disc Size	6.38"
		Final O.D.	6.25"
		Hose Serial #	5844
		Hose Assembly Serial #	79793
		Standard Safety Factor/Min. Applied	
		Burst Pressure	15085 PSI
		Standard Safety Factor/Min. Applied	



Test Pressure: 15000 PSI
 Time Held at Test Pressure: 11 Minutes
 Actual Burst Pressure: 15085 PSI
 Peak Pressure: 15085 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.
 Tested By: Zac McConnell
 Approved By: Kim Thomas

[Signature]
[Signature]

Exhibit F-2 – Co-Flex Hose
Maduro Unit No. 10H
Cimarex Energy Co. of Colorado
SHL 29-19S-33E; 330 FNL & 1980 FWL
BHL 32-19S-33E; 2310 FNL & 1980 FWL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:		PO
DEM		ODYD-271
SPECIFICATIONS		
Sales Order		Dated:
79793		3/8/2011
<p>We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards</p> <p>Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041</p>		
Comments:		
Approved:		Date:
<i>James Blawie</i>		3/8/2011



**Midwest Hose
& Specialty, Inc.**

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
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INTERNAL HYDROSTATIC TEST REPORT		
Customer: Oderco Inc.		P.O. Number: odyd-271
HOSE SPECIFICATIONS		
Type: Stainless Steel Armor Choke & Kill Hose	Hose Length: 45'ft.	
I.D. 4 INCHES	O.D. 9 INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE 0 PSI
COUPLINGS		
Stem Part No. OKC OKC	Ferrule No. OKC OKC	
Type of Coupling: Swage-It		
PROCEDURE		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
TIME HELD AT TEST PRESSURE 15 MIN.	ACTUAL BURST PRESSURE: 0 PSI	
Hose Assembly Serial Number: 79793	Hose Serial Number: OKC	
Comments:		
Date: 3/8/2011	Tested: <i>A. Joanne Jones</i>	Approved: <i>[Signature]</i>

Conditions of Approval

**Cimarex Energy Company
Irwin 23-14 Federal 4
API 30-015-39894
T19S-R30E, Sec 23
February 11, 2013**

1. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - a. First stage to DV tool:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement may be required as excess calculates to 20%.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash and Capitan Reef.
2. Variance approved to use flex line from BOP to choke manifold. 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.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

JAM 021113