

District I
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr , Santa Fe, NM 87505

HOBBS OCD
JUL 19 2012
RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld, Ste. 600 Midland, TX 79701		² OGRID Number 162683
		³ API Number 30-025-34626
⁴ Property Code 300545	⁵ Property Name Red Hills Unit	⁶ Well No 004
⁹ Proposed Pool 1 Red Hills; Wolfcamp (Gas)		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	25S	33E		454	South	1500	West	Lea

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3387 GL
¹⁶ Multiple N	¹⁷ Proposed Depth 14900' (PBDT)	¹⁸ Formation Wolfcamp	¹⁹ Contractor N/A	²⁰ Spud Date When Approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner. Synthetic ☐ mls thick Clay ☐ Pit Volume: _____ bbls Drilling Method:				
Closed-Loop System ☒ Flowback Tanks Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26	20	94 & 106	892	1700	Circ
17½	13¾	72 & 68	4880	2745	Circ
12¼	9⅝	53.5	13002	1475	Circ
	7		12750-17046	585	
	4½		16827-17675	100	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
Cimarex Energy Co. of Colorado respectfully requests approval to re-complete the Red Hills Unit #4 to Wolfcamp as shown below and on attached procedure.

Perf Wolfcamp 13496 - 13724

Flow test and stabilize production.

Acidize with 5000 gal 15% HCl and displace w 2% KCl.

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

Plugback

Conditions of Approval for Non-Standard Location
Intents not drill ONLY- CANNOT produce until the
Non Standard Location has been approved by OCD
Santa Fe Office

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Signature: <i>Adela Molina</i>		Approved by: <i>[Signature]</i>	
Printed name: Adela Molina		Title: PETROLEUM ENGINEER	
Title: Regulatory		Approval Date: JUL 23 2012	
E-mail Address: amolina@cimarex.com		Expiration Date:	
Date: July 5, 2012	Phone: 432-620-1960	Conditions of Approval Attached ☐	

JUL 23 2012

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0700

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94
Instructions on back

Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

OIL CONSERVATION DIVISION

P. O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-34626		2 Pool Code 83600		3 Pool Name Red Hills; Wolfcamp (Gas)	
4 Permit Code 300545		5 Property Name REDHILLS UNIT			6 Well Number 4
7 Section No. 162683		8 Operator Name Cimarex Energy Co. of Colorado			9 Elevation 3387'

" SURFACE LOCATION

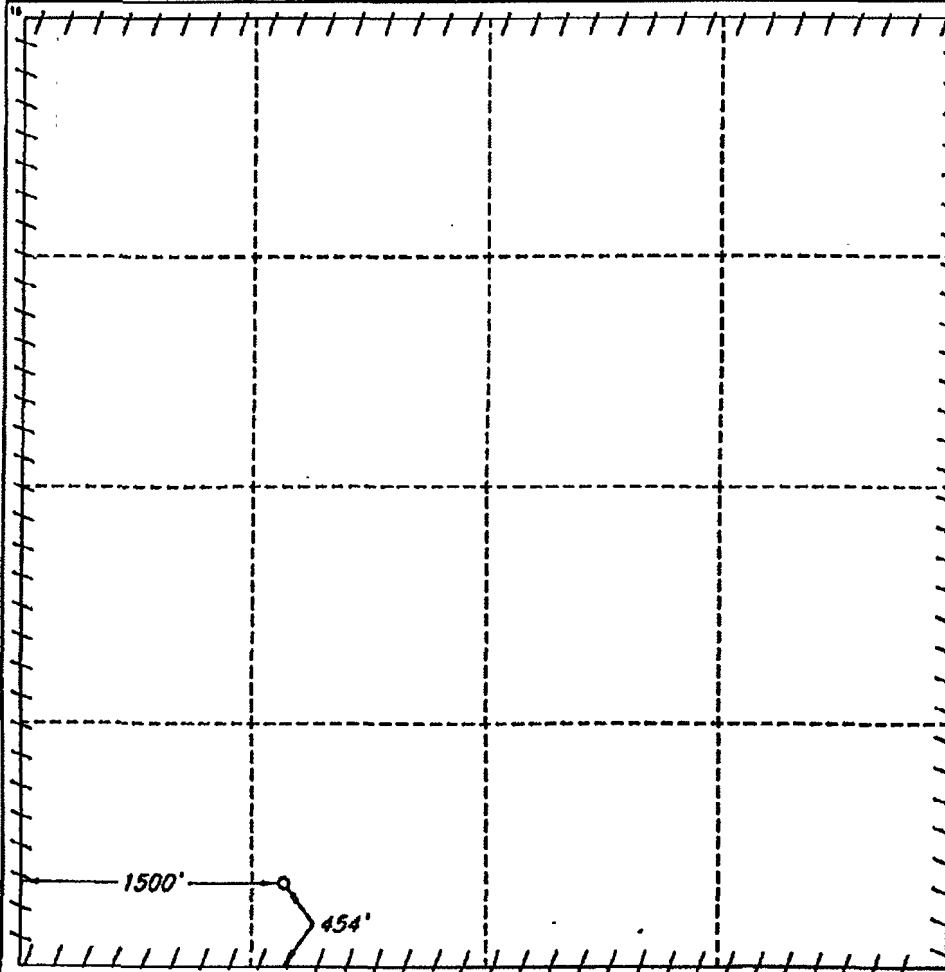
UL or lot no. N	Section 32	Township 25 SOUTH	Range 33 EAST, N.M.P.M.	Lot Ida	Feet from the 454'	North/South line SOUTH	Feet from the 1500'	East/West line WEST	County LEA
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"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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10 Dedicated Acres 640	11 Joint or Infill	12 Consolidation Code	13 Order No. R-11154
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NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Zeno Farris

Printed Name
Zeno Farris

Title
Manager Operations Admin

Date
9/29/2010

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.

Date of Survey
FEBRUARY 20, 2011

Signature
Roger M. Robbins

Professional Seal
REGISTERED PROFESSIONAL SURVEYOR
12128

Certificate No.
ROGER M. ROBBINS P.S. #12128

JOB #62320 / 22 SE / V.H.B.



Red Hills Unit #4
Wolfcamp Recompletion Procedure
API # 3002534626000
454' FSL & 1500 FWL
Section 32, T25S, R33E
Lea County, New Mexico

WELL DATA:

KB	3414'; 27' above GL
TD:	17,675'
PBTD:	14,874'
Casing:	20" 94 & 106 # J-55 @ 892' Cmtd w/1,700 sx. Cmt circ 13-3/8" 72 & 68 # P-11- and J-55 @ 4880' Cmtd w/2,745 sx. Cmt circ 9-5/9" 53.5 # P110 @ 13,002' Cmtd w/1,475' sx 7" 38 # P110 @ 12,750'-17,046' Cmtd w/585 sx. 4-1/2" 13.5 # P-110 @ 16,827'-17,675'. Cmtd w/100 sx. Full Returns.
Existing Perfs:	Devonian (17,468'-72', 17,504'-22', 17,530'-67')
Existing Plugs:	Spotted plugs (14,874'-15,021' & 15,970'-16,117')
Key Logs:	Schlumberger FDC-CNL (12 Feb 2000), and EP-Radial CBL (6-22-12)
BHT	268 F

PROCEDURE:

Before RU check for permit status; notify BLM 24 hr before RU
for workover

1. MIRU pulling unit. ND WH, NU 10K BOP.
 2. Pick up & RIH with 2-3/8" L80 tbg with a bit & scraper for 7" 38# casing to 13,750'
 3. RIH W/TCP perforating guns; Sub, XN Nipple, Sub, PKR, Nipple
 4. Correlate logs to packer and TCP setting depth. Space out TCP guns to open-hole FDC-CNL:
13,496'-500' and 13,716'-24' (EP-CBL: 13,500'-04 and 13,720'-28'). Set PKR per recommendation by
packer Company above 13,450'
 5. Pressure up on tubing to xxx psi and fire guns. (Anticipated BHP up to 10,600 psi).
 6. Evaluate dropping guns if gun length is 260', need PBTD for rat hole at 14,874'
 7. Record Pressure before flowing well to vessels
 8. Flow Test Well, Stabilize Production
- NOTE:** Timing of Acid Job to be determined by flow rates.
9. Acidize (13,496'-13,724') w/5,000 gal 15% HCL, using rate diversion. (Max pressure for acid 5500 psi)
 10. Displace acid w/ 2% KCL

11. Swab well until pH is greater than 4.5

12. Record fluid levels and oil cuts and report to Midland.



Cimarex Energy Co. of Colorado

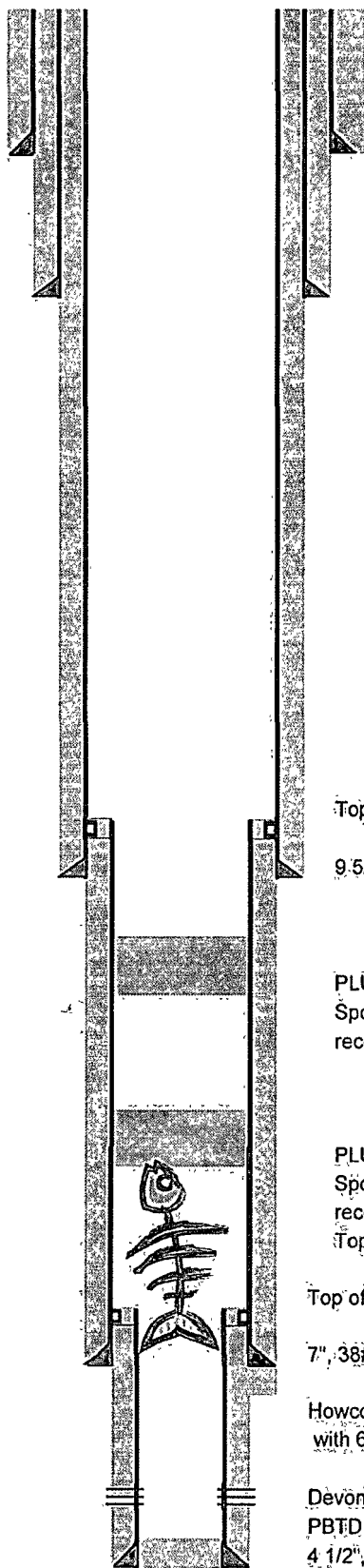
Red Hills Unit #4

454' FSL & 1500' FWL

Sec. 32, T-25-S, R-33E, Lea Co., NM

S. Gengler

05/04/2009



20", 94 & 106# X-56 csg. @ 892'
cmt'd w/ 1700 sx, cmt circ

13 3/8", 72# P-110 & J-55 csg. @ 4880'
cmt'd w/ 2945 sx, cmt'd w/ 1" to surf.

Top of Wolfcamp @ 12103'

Top of 7" Liner @ 12750'

9 5/8", 53.5# P-100 csg. @ 13002'
cmt'd w/ 1475 sx.

Top of Cisco @ 13924'

PLUG SPOTTED FROM 15021' TO 14874'
Spotted 25 sx of cmt & tagged at 14874' per OCD
recommendation

Top of Canyon @ 14076'

Top of Strawn @ 14220'

PLUG SPOTTED FROM 16117' TO 15970'
Spotted 25 sx of cmt & tagged at 15970' per OCD
recommendation

Top of Atoka @ 14421'

Top of Morrow @ 15034'

Top of Fish @ 16134'

Top of Mississippian @ 16664'

Top of 4 1/2" Liner @ 16827'

Top of Woodford @ 17287'

7", 38# P-110 csg. @ 17046' cmt'd w/ 585 sx

Top of Devonian @ 17448'

Howco PLS mechanically set packer
with 60 points of shear @ 16910'

Devonian perfs. (17468' - 17567')

PBD @ 17628'

4 1/2", 13.5# P-110 @ 17675' cmt'd w/ 100 sx
TD @ 11500'