Form 3160-5

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED

	OMB No. 1004-013
CD Artes <u>ia</u>	Expires July 31, 19

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	AUG 2 4 2010	BUREAU OF LAND	MANAGEMENI	OCD Artes		Expires July 31, 1996 se Serial No	
1	NMOCD ARTESIA	OUNDDY NOTICES AND I			NIN 4 4 4 4 7		
1	ARTESIA DO	SUNDRY NOTICES AND F not use this form for propos		<u></u>	NM-1412 6. If Ind	dian, Allottee or Tribe Name	
1	NMOOD	doned well. Use form 3160-			0. 11110	nan, Anottee of Tribe Hame	
					7. If Un	nit or CA/Agreement, Name and/o	or No.
	SUBMIT IN TR	RIPLICATE - Other instructio	ns on reverse side				
1.	Type of Well	Пои		}	- 11 "		
_	Oil Well Gas Well	Other				Name and No.	V
2.	Name of Operator Cimarex Energy Co. of Colorado			}		dt 12 Penn Federal No. 2 Well No	
			Bhone No. (melu	do area codal			
зa	Address 600 N. Marienfeld St., Ste. 600; N	Midland TX 79701	3b. Phone No. (<i>includ</i> 432-571-7800	de area code)	30-015-34 10 Field	d and Pool, or Exploratory Area	
4	Location of Well (Footage, Sec., T., R, M.		132 371 7000				
4	2310 FNL & 1330 FEL	, or carrey bescription,		H		ty; Penn (Gas) nty or Parish, State	
	12-25S-26E				Eddy Cou		
	12. CHECK APF	PROPRIATE BOX(ES) TO	O INDICATE NAT	TURE OF NOTICE	E, REPOR	RT, OR OTHER DATA	_
	TYPE OF SUBMISSION		Т	YPE OF ACTION	<u> </u>	<u> </u>	
	⊠						
	Notice of Intent	Acidize	Deepen	Production (Start/R	esume)	Water Shut-Off	
		Alter Casing	Fracture Treat	Reclamation		Well Integrity	
	Subsequent Report	Casing Repair	New Construction	Recomplete		Other Recomplete to	
		Change Plans	Plug and Abandon	Temporarily Aband	on	Cisco and Wolfcamp and	
	Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal		DHC	
13	. Describe Proposed or Completed Operation						
	If the proposal is to deepen directionally or Attach the bond under which the work will			•			
	following completion of the involved opera					•	
	testing has been completed Final Aband		r all requirements, includir	ng reclamation, have been	completed, an	nd the operator has	
	determined that the site is ready for final in Well producing from open Morro		P @ 12040' over Mc	orrow parts @ 12078	-12085 Ci	imarey proposes to plug N	Aorrow
	and recomplete to Cisco and Wo	·		•	12005. (1	marck proposes to plug it	nonow
	• NDWH, NU 5K BOP. Rel pkr, T	•	·		to adress	abandonment plug over N	Aorrow
	at final abandonment. Pressure	- 4.4	475	cint off top. Reques	. to auress i	abandonment plug over n	71011000
	 Perf Cisco 10137-10243' 3 jspf 		•	gal acid and 187001	gal slickwa	iter containing 20000# 10	0 mesh
	& 100000# 30/50 sand. CBP @ 1					-	
	• Perf Cisco 10032-10106 3 jsp		c 10032-10106' w 5	000 al acid and 186	868 gal sli	ickwater containing 2000	0# 100
	B92mesh & 100000# 30/50 mesh						
	 Perf Wolfcamp 9607-9727' 3 mesh & 200000# 30/50 sand. CB 		ac 9607-9727' w 10	1000 gal acid and 29	4498 gal sl	ickwater containing 3000	0# 100
	 Perf Wolfcamp 9399-9533' 3 js 		- 9399-95331 w 5000	gal acid and 205620	gal slickus	ater containing 20000# 10	0 mech
	& 200000# 30/50 sand. CBP @ 9		. 2278-8233 W 2000	gai aciu ailu 233020	gai siickwd	itel containing 20000# 100	0 1116211
	 Perf Wolfcamp 9181-9347' 3 js 		: 9181-9347' w 5000	gal acid and 289284	gal slickwa	ater containing 30000# 10	0 mesh

- & 200000# 30/50 sand.
- DO CBPS and CO sand to 10300' w coiled tubing. Install tbg assembly and pkr. Put on production.

DHC application in progress at NMOCE	SUBJECT TO LIKE	Oil Conserv	ation Division
14. I hereby certify that the foregoing is true and corr Name (Printed/Typed) SEE Natalie Krueger Signature , CON	APPROVAL BY STA ATTACHED FOR Regulator DITIONS OF APPLACOV	TE Conditions of ap	pproval: Approval for drilling/workov T produce Downhole Commingled unt
Washiebung	August 12		APPROVED
	THIS SPACE FOR FEDERAL OR S	TATE OFFICE USE	
Approved by		Title	Date 0.2010
Conditions of Approval, if any, are attached Approval, and applicant to conduct oper which would entitle the applicant to conduct oper	title to those rights in the subject lease	Office	/s/ Chris Walls
Title 18 U S.C. Section 1001, makes it a crime for fraudulent statements or representations as to an		ny department or agency of the	United States RESBISE FIFTED WANAGEMENT
		1/ //-	

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AUG 2 4 2010

District

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Energy, Minerals & Natural Resources DepartmenNMOCD ARTESIA October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa F	ře, NM 87505						l		INDED REPORT
		v	VELL LC	CATIO'	N AND ACR	REAGE DEDIC	ATION PLA	.Τ		/
API Number 'Pool 30-015-34329 872										
'Property Code 'Property Name 34059 Marquardt 12 Penn Federal								*Well Number 002		
L	⁷ OGRID No. Operator Name 162683 Cimarex Energy Co. of Colorado							*Elevation 3236' GR		
					¹⁰ Surface 1	Location				
UL or lot no.	Section	Township	Range	Lot Idn		1 :	Feet from the	East	t/West line	County
G	12	255	26E		2310	North	1330	Ea ⁻	East Ed	
			¹¹ Bo	ttom Ho	le Location If	f Different Fron	n Surface			
UL or lot no.	Section	Township	Range				Feet from the	East	t/West line	County
^{tz} Dedicated Acres	i daint or	r Infill "C	Consolidation C	Code 18 Or	der No.	1		***************************************		
640					DHC Pending					

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 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 nitnered or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
		Marquardt 12 Pe 2310 FNL & 1330	enn Federal No. 2 FEL	Signature Date Zeno Farris Printed Name
CHANGES CONTRACT CONT				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plut 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.
NAMES OF THE PROPERTY OF THE P	NM-:	Marquardt 12 880 FSL & 176	Penn Federal No. 1	Date of Survey Signature and Seal of Professional Surveyor Certificate Number

District.I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

AUG 24 2010

RECEIVED

Form C-102

Energy, Minerals & Natural Resources Department OCD ARTES Partised October 12, 2005
OIL CONSERVATION DIVISION Submit to Appropriate District Office OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

State Lease - 4 Copies

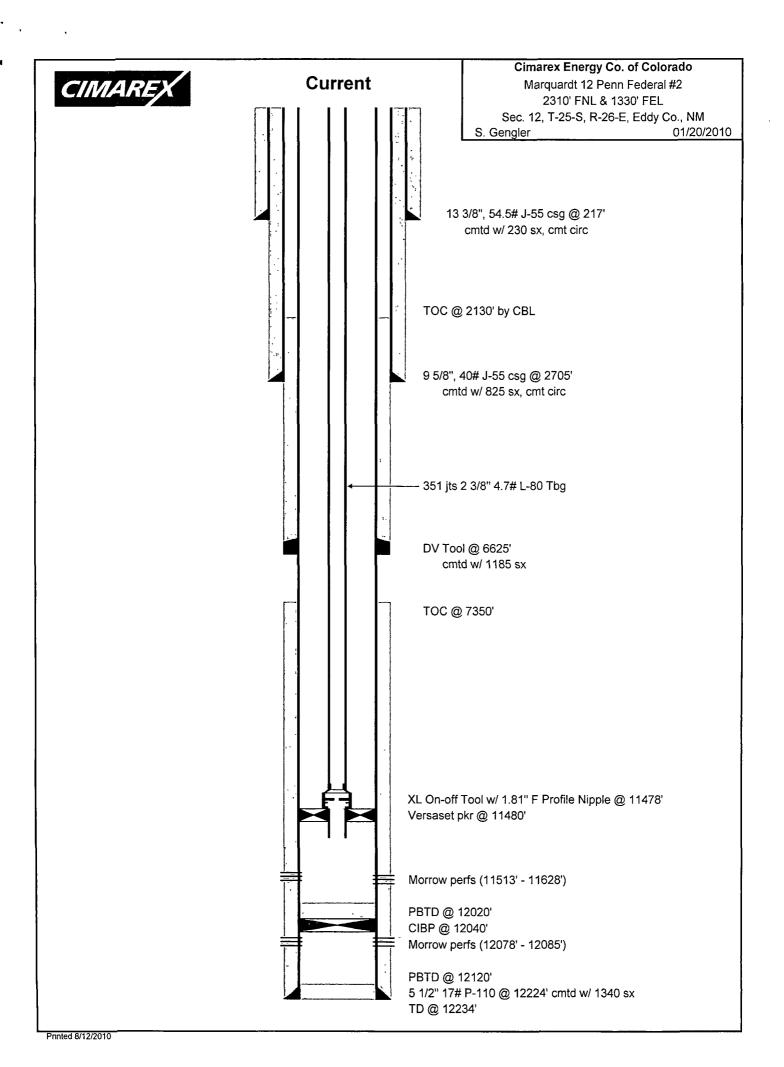
Santa Fe, NM 87505

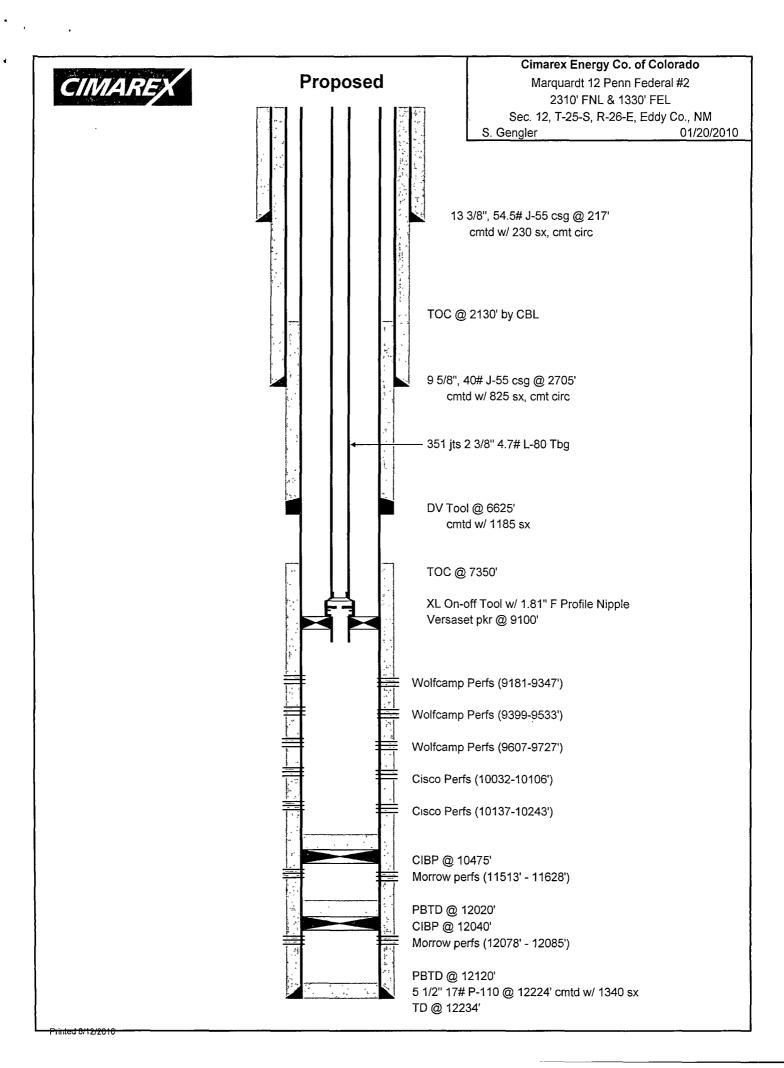
Fee Lease - 3 Copies

							_		
1220 S. St. Francis Dr., Santa Fe, NM 87505									NDED REPORT
	1	WELL LO	CATIO	N AND ACE	REAGE DEDIC	CATION PLA	.T		<u> </u>
1 Number 15-343									
*Property Code *Property Name *W 34059 Marquardt 12 Penn Federal								Vell Number 002	
TOGRID No. Operator Name 162683 Cimarex Energy Co. of Colorado 3							Elevation 3236' GR		
				¹⁰ Surface	Location				
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
12	25S	26E		2310	North	1330	East Eddy		
		¹¹ Bo	ttom Ho	le Location I	f Different From	m Surface			
Section	Township	ip Range Lot Idn Feet from the North/South line Feet from the East			/West line	County			
	<u> </u>								
" Joint or	"India"	Consolidation (Code 18 Or	der No.					
320 DHC Pending NSL PENDING						DENG			
	Section	Section Township 12 255	Section Township Range 12 25S 26E Section Township Range	WELL LOCATION Number Pool Code 96890 de Marc Cimare Section Township Range Lot Idn 12 25S 26E 11 Bottom Ho Section Township Range Lot Idn	WELL LOCATION AND ACE Number	WELL LOCATION AND ACREAGE DEDIC Number	WELL LOCATION AND ACREAGE DEDICATION PLA Number	WELL LOCATION AND ACREAGE DEDICATION PLAT Number 'Pool Code 96890 Sage Draw; Wolfcamp, E (Gode Property Name North/South line Feet from the East 12 25 26 2310 North 1330 East 14 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East 25 26 2310 North 1330 East 14 East 15 East 15 East 16 East 16 East 17 East 17 East 18 East 18 East 18 East 19 East 19	WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 96890 Sage Draw; Wolfcamp, E (G) Property Name Marquardt 12 Penn Federal Operator Name Cimarex Energy Co. of Colorado Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 12 25S 26E North Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 1330 East 11 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 1330 East

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.

16		EXECUTE AND THE ADDRESS AND TH	17 OPERATOR CERTIFICATION I hereby certify that the information command 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 his a right to drill this well at this location pursuant to a contract with an owner of such a inhered or working timerest, or to a voluntary pooling agreement or a compulsory pooling order heretafore entered by the division
	Marquardt 12 Pe 2310 FNL & 1330	enn Federal No. 2	Zeno Farris Zeno Farris Printed Name
		<u> паняндананняй депенананда</u>	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.
	NM-1	4124	Date of Survey Signature and Seal of Professional Surveyor Certificate Number





Marquardt 12 Penn Federal #2 Ciscamp Recompletion Procedure

Well Data:

KB 19' above GL

TD 12234' PBTD 12020'

Casing 13-3/8" 54.5# J-55 @ 217'. Cmtd w/ 230 sx. Cmt circ.

9-5/8" 40# J-55 @ 2705'. Cmtd w/ 825 sx. Cmt circ.

5-1/2" 17# P-110 @ 12224'. Cmtd w/ 1340 sx. TOC @ 7350' by CBL.

DV Tool @ 6625'. Cmtd w/ 1185 sx. TOC @ 2130' by CBL.

Perforations

Morrow (11513' – 11628')

Procedure:

- 1. MIRU pulling unit. Kill well, ND WH, NU BOP. TOOH and LD 2-3/8" tbg. RU wireline and run CIBP and set @ ± 10475'. Dump 35' of cmt on top of CIBP. RU pump truck and pressure test csg to 5000 psig w/ FW. ND BOP, Change out 5K wellhead for 10K wellhead, and RU 10K goat head frac valve.
- 2. RU wireline truck and perforate Cisco Canyon (10137' 10142', 10154' 10159', 10170' 10175', 10196' 10202', 10220' 10224', 10237' 10243') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 93 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated October 12, 2005.
- 3. RU Cudd. Acidize and frac Cisco Canyon perfs (10137' 10243') down 5-1/2" csg w/ 5000 gals acid followed by 187,001 gals slick water containing 20,000# 100 mesh & 100,000# 30/50 sand. Set 10K flow thru composite plug @ 10125'.
- 4. RU wireline and mast truck. Perforate Cisco Canyon (10032' 10036', 10044' 10048', 10069' 10073', 10090' 10094', 10102' 10106') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated October 12, 2005
- 5. Acidize and frac Cisco Canyon perfs (10032' 10106') down 5-1/2" csg w/ 5000 gals acid followed by 186,868 gals slick water containing 20,000# 100 mesh & 100,000# 30/50 sand. Set 10K flow thru composite plug @ 10000'.
- 6. Perforate Wolfcamp (9607' 9610', 9622' 9625', 9648' 9651', 9678' 9681', 9701' 9704', 9722' 9727') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated October 12, 2005.

- 7. Acidize and frac Wolfcamp perfs (9607' 9727') down 5-1/2" csg w/ 10000 gals acid followed by 294,498 gals slick water containing 30,000# 100 mesh & 200,000# 30/50 sand. Set 10K flow thru composite plug @ 9570'.
- 8. Perforate Wolfcamp (9399' 9403', 9429' 9433', 9454' 9458', 9494' 9498', 9529' 9533') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated October 12, 2005.
- 9. Acidize and frac Wolfcamp perfs (9399' 9533') down 5-1/2" csg w/ 5000 gals acid followed by 295,628 gals slick water containing 30,000# 100 mesh & 200,000# 30/50 sand. Set 10K flow thru composite plug @ 9375'.
- 10. Perforate Wolfcamp (9181' 9184', 9210' 9213', 9273' 9277', 9307' 9312', 9342' 9347') 3 JSPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated October 12, 2005. RD wireline.
- 11. Acidize and frac Wolfcamp perfs (9181' 9347') down 5-1/2" csg w/ 5000 gals acid followed by 289,284 gals slick water containing 30,000# 100 mesh & 200,000# 30/50 sand. RD Cudd.
- 12. RU 1-3/4" coiled tbg unit. TIH w/ 4-3/4" butterfly mill & extreme downhole motor on 1-3/4" CT and drill out sand and composite plugs @ 9375', 9570', 10000', and 10125'. Make a minimum of 2 gel sweeps while drilling out composite plugs. FIH w/ coiled tbg and CO sand to 10300'. TOOH w/ mill, motor, & CT. RD coiled tbg unit.
- 11. Flow back well until sand production cleans up, the SI well overnight.
- 12. RU wireline and full 10K lubricator. RIH w/ 4-3/4" GR to 9150'. TIH w/ 10K pkr w/ on-off tool, and a pump out plug (pinned for 7500 psi BHP) in place and set @ ± 9100'. RD wireline and full lubricator.
- 13. ND goat head and NU BOP. TIH w/ on-off tool, tbg and gas lift valves as per recommendation testing tubing below slips to 8000 psi. Tag pkr and PU 1 jt. RU PT and establish circ w/ FW. Pickle tbg w/ 500 gals 15% HCl and reverse out acid. Circ hole until good clean wtr is left in annulus. FIH w/ tbg and latch on to pkr. ND BOP, NU WH. RD pulling unit.
- 14. RU PT & pressure up to 4000 psig to pump out plug. Put well on production.

Marquardt 12 Penn Federal 2 30-015-34329 Cimarex Energy Co. of Colorado August 18, 2010 Conditions of Approval

- 1. A plug must be set across the top of the Morrow Formation prior to selling the well or at final abandonment.
- 2. Surface disturbance beyond the originally approved pad must have prior approval.
- 3. Closed loop system required.
- 4. A minimum of a 5M BOP is required and must be tested prior to performing operations. 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.
- 5. Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.
- 6. Completion report and subsequent sundry required.

CRW 081810