Form 3160-5 (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD H	obbs
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FORM APPROVED OMB No. 1004-0135

Expires July 31, 1996

Lease Serial No.

DEC	10	2010		SU	NDRY	/ NO	TICES	AND	REF	OR	TS .	ON	WEL	LS
			_			_	_		_					

HOBBSOCD Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

NM-	052
6.	If Indian, Allottee or Tribe Name

If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRII	PLICATE - Other Instructi	ons on reverse side					
Type of Well X Oil Well Gas Well Gas Well	Other			8. Well Na	me and No.		
 Name of Operator Cimarex Energy Co. of Colorado 		Mallon 34 I	Federal No. 19				
3a. Address		3b. Phone No. (includ	e area code)	30-025-398	394		
600 N. Marienfeld St., Ste. 600;	Midland, TX 79701	432-571-7800		10. Field and	d Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M.,	Location of Well (Footage, Sec., T., R., M., or Survey Description)						
SHL 2055 FNL & 790 FEL	34-19S-34E			11. County of	or Parish, State		
BHL 1980 FNL & 330 FWL				Lea County	, NM		
12. CHECK APPF	ROPRIATE BOX(ES) T	O INDICATE NAT	JRE OF NOTICE	E, REPORT	, OR OTHER DATA		
TYPE OF SUBMISSION		T	PE OF ACTION				
X Notice of Intent	Acidize	Deepen	Production (Start/R	esume)	Water Shut-Off		
	X Alter Casing	Fracture Treat	Reclamation		Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete		X Other Change SHL		
	Change Plans	Plug and Abandon	Temporarily Aband	on _			
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal				
12 Describe Dranged or Completed Operation	/clearly state all pertinent details	included estimated starting	date of any proposed we	ork and annrovim	ate duration thereof		

3. Describe Proposed or Completed Operation (clearly state all pertinent details, included 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 has changed the SHL of the Mallon 34 Federal No. 19 because the original location at 2055 FNL & 790 FEL was staked over an old pit area. Please see new location and drilling plan below, as well as attached revised plats and preliminary directional survey.

Permitted Location SHL 2055 FNL & 790 FEL BHL 1980 FNL & 330 FWL Engineering review is OK. RGH 12/7/2010

Proposed Location
SHL 1650 FNL & 700 FEL
BHL 1980 FNL & 330 FWL

Instead of drilling a pilot hole and setting 7" casing and fiberglass tubing for kick-off as permitted, Cimarex plans to drill the 8¾" production holeto KOP @ 10749' and through the curve of the lateral to TD @ 15123' MD, 10940' TVD. Run 5½" 17# P-110 LTC casing from 0-TD and cement with Lead 700 sx Econocem + 5# Gilsonite (wt 11.9, yld 2.48) and Tail 1930 sx Halcem (wt 15.6, yld 1.19), TOC 5300 '

5300.				
14. I hereby certify that the fore Name (Printed/Typed)	going is true and correct	Title SE	EE ATTACHED FOR ONDITIONS OF AP	PROVAL
Natalie Krueger		Regulatory		
Signature	Delmoge	Date November 8, 2010	APPROVED	
	/ THIS SPACE	FOR FEDERAL OR STATE OFFICE U	SE	
Approved by		helboren <mark>in enc</mark> e	DEC = 7 Pago10	10EC 1 3 201
certify that the applicant holds	are attached. Approval of this notice does legal or equitable title to those rights in the ant to conduct operations thereon.		BUREAU OF LAND MANAGEMI CARLSBAD FIELD OFFICE	ENT

Title 18 U.S.C. Section 1001, makes 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.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised July 16, 2010

Submit one copy to appropriate District Office

1301 W. Grand Avenue, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
30-025-39894	50461	Quail Ridge; Bone	Spring, S
Property Code	Property	Name	Well Number
29028	MALLON "34"	FEDERAL	19
ogrid no.	Operator		Elevation
162683	CIMAREX ENERGY CO		3709

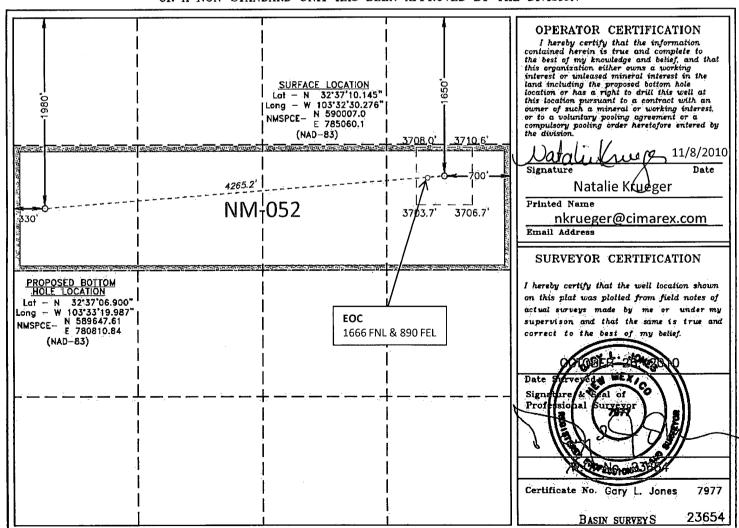
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
н	34	19 S	34 E		1650	NORTH	700	EAST	LEA

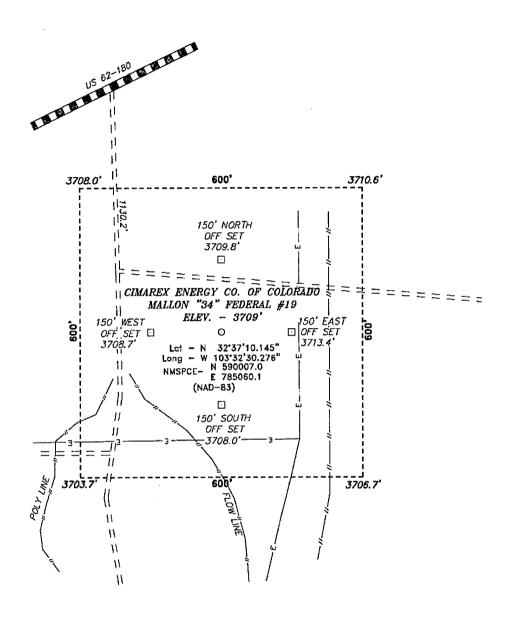
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	34	19 S	34 E		1980	NORTH	330	WEST	LEA
Dedicated Acres Joint or Infill Consolidation (Code Or	der No.					
160									

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



SECTION 34, TOWNSHIP 19 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY. NEW MEXICO.



Directions to Location:

AT MILE MARKER 79.7 ON US 62-180 TURN SOUTH ON EXISTING ACCESS ROAD FOR 0.2 MILES TO PROPOSED LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 23654 Drawn By: **B. NIXON**Date: 10-27-2010 Disk: BJN 23654

200 0 200 400 FEET

SCALE: 1" = 200'

CIMAREX ENERGY CO. OF COLORADO

REF: MALLON "34" FEDERAL #19 / WELL PAD TOPO

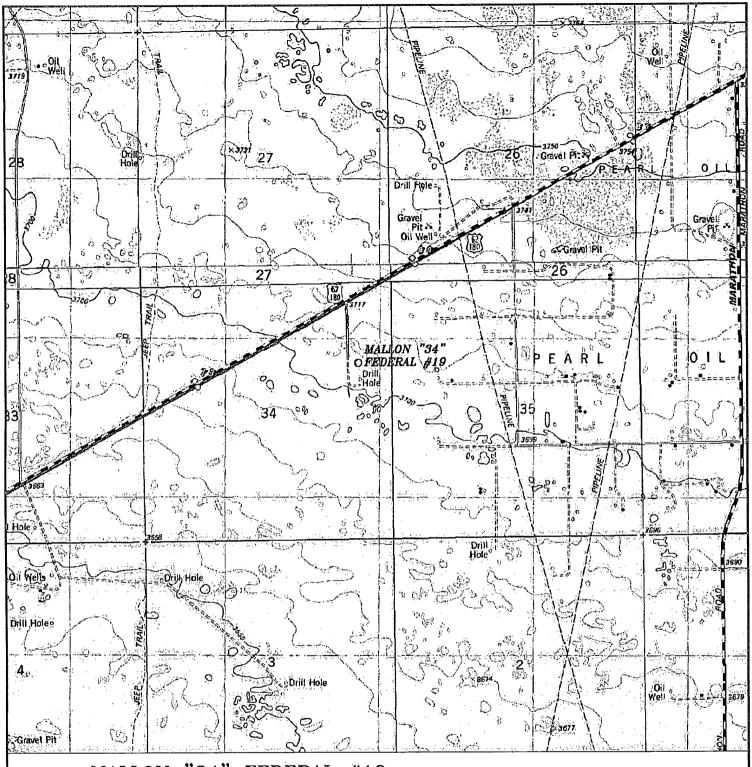
THE MALLON "34" FEDERAL #19 LOCATED 1650'

FROM THE NORTH LINE AND 700' FROM THE EAST LINE OF

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 34 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 10-26-2010 Sheet 1 of 1 Sheets



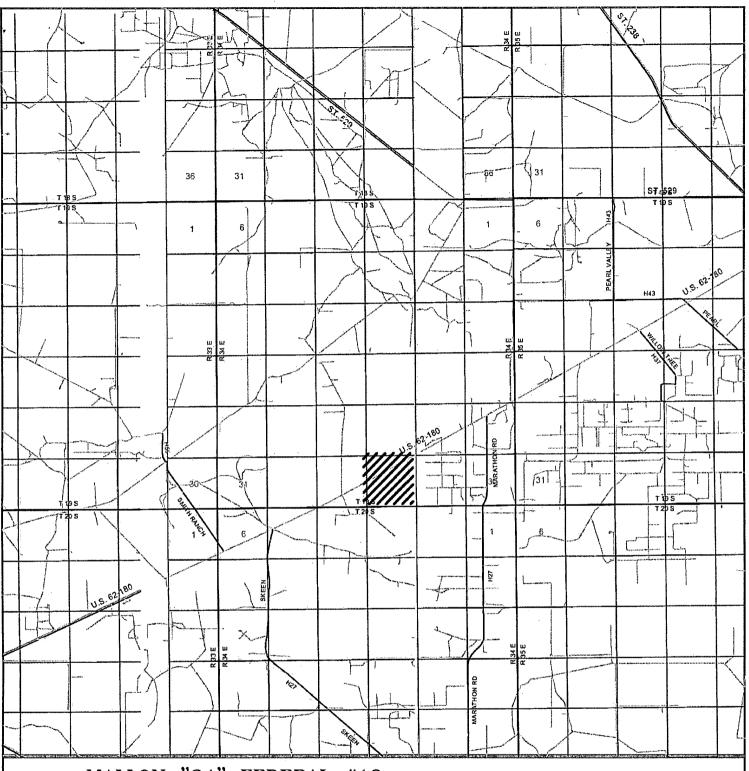
MALLON "34" FEDERAL #19 Located 1650' FNL and 700' FEL Section 34, Township 19 South, Range 34 East, N.M.P.M., Lea County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fox basinsurveys.com

W.O. N	umber:	BJN	23654	
Survey	Date:	10-2	26-2010	
Scale:	1" = 20	000,		
Dote:	10-27-	-2010	25. 26. 12.	cond difficult

CIMAREX ENERGY CO. OF COLORADO



MALLON "34" FEDERAL #19 Located 1650' FNL and 700' FEL Section 34, Township 19 South, Range 34 East, N.M.P.M., Lea County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

The Park and the	W.O. Number: BJN 23654	
The second second	Survey Date: 10-26-2010	1
The second	Scale: 1" = 2 Miles	4
STATE OF THE PARTY.	Date: 10-27-2010	

CIMAREX ENERGY CO. OF COLORADO

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Cimarex Energy Company of Colorado

LEASE NO.: NM052

WELL NAME & NO.: Mallon 34 Federal #19
SURFACE HOLE FOOTAGE: 1650' FNL & 700' FEL

BOTTOM HOLE FOOTAGE | 1980' FNL & 330' FWL

LOCATION: | Section 34, T. 19 S., R 34 E., NMPM

COUNTY: Lea County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

a. Spudding well

b. Setting and/or Cementing of all casing strings

c. BOPE tests

Lea County

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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Yates formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface (horizontal well – vertical portion of hole) will 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.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation or water flows in the Seven Rivers and Capitan Reef, if encountered.

Possible high pressures in the Wolfcamp.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1750 feet (a minimum of 25 feet 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 is to include the lead cement slurry.

- 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.
- 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 the Capitan Reef.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back a minimum of **50** feet above the Capitan Reef. Operator shall provide method of verification.
- 4. 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.

C. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Operator is using a 5M and testing as a 3M.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

- 3. 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 or where the float does not hold, the minimum wait time before cut-off is eight hours after bumping the plug or when the cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. BOP/BOPE testing can begin after the above conditions are satisfied.
 - b. 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 (18 hours) or potash (24 hours) prior to initiating the test.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.
 - e. 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.
 - f. 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.

D. 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.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

RGH 120710