Office State of New Mexico	Form C-103
District I Energy, Minerals and Natural Resources	May 27, 2004 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 CC VED District II	30-025-27417
	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410 AN 20 20 11220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 AN 20 Santa Fe. NM 87505	STATE FEE
District IV Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1000 Rio Brazos Rd., Aztec, NM 87410JAN 20 20 41220 Sottli St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe, NM 10BBS OCD Santa Fe, NM 87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Ū
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	State HH
1. Type of Well: Oil Well Gas Well Other	8. Well Number
	001
2. Name of Operator	9. OGRID Number
Cimarex Energy Co. of Colorado /	162683
3. Address of Operator	10. Pool name or Wildcat
600 N. Marienfeld, Ste. 600; Midland, TX 79701	Gem; Bone Spring
4. Well Location	
SHL Unit Letter H: 1980 feet from the North line and 660	feet from theline/
Section 36 Township 19S Range 32E NMPM	County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.	
3582 GR	
Pit or Below-grade Tank Application or Closure	
Pit type Depth to Groundwater Distance from nearest fresh water well	Distance from nearest surface water
Pit Liner Thickness: Below-Grade Tank: Volume bbls; Con	struction Material
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO: SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WOR	
oxedge TEMPORARILY ABANDON $oxedge$ CHANGE PLANS $oxedge$ COMMENCE DR	
PULL OR ALTER CASING $oxed{oxtime}$ MULTIPLE COMPL $oxtime$ CASING/CEMEN	T JOB
OTHER:	
13. Describe proposed or completed operations. (Clearly state all pertinent details, and given	
starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach w	ellbore diagram of proposed completion or
recompletion.	
Cimarex has changed plans regarding the horizontal recompletion of this well.	
Set CIBP @ 13150 w/ 35' cmt (13150-13115) covering Morrow perfs at 13318'-13624'. Se	t 25 sx cmt plug (10878-10978) over
Wolfcamp. Set CIBP @ 9100 w/ 2 sx sand.	125 3x 6111 plug (10070 10370) 0vel
, , , , , , , , , , , , , , , , , , ,	
Instead of running 3½" casing from 0-TD, run 3½" 9.3# P110 LTC from liner hanger @ 869	5 to TD. Cement with 220 sks, VersaCem-H +
0.5% Halad®-344 (Low Fluid Loss Control) + 0.5% CFR-3 (Dispersant), + 1 lbm.sk 1 lbm/sk	Salt (Salt), + 0.2% HR-601 (Retarder), 14.5ppg,
1,22 cuft/sk, 5.37 gal/sk, 0% excess.	June - w
	x 1
•	
)	
I hereby certify that the information above is true and complete to the best of my knowledge	ge and belief. I further certify that any pit or below-
grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit	or an (attache i) alternative OCD-approved plan 📙.
SIGNATURE A Jata (1) the TITLE Regulatory Analyst	(DATE January <u>19, 2011</u>
TITLE REGULATORY ANALYST	Date January 19, 2011
Type or print name Natalie Krueger email address: nkrueger@cimarex.co	m Telephone No. 432-620-1936
For State Use Only	
PETROLEUM EIX	INDESK JAN 2 1 2011
APPROVED BY: TITLE	DATEDATE
u	



DRILLING PROGNOSIS Cimarex Energy Company

1/7/2011

Well:

State HH #1

Location:

sec 36, 19S-32E

County, State Lea County, NM Surface Locatio: 1980 FNL, 660 FEL Bottomhole Loc 330 FSL, 660 FEL

E-Mail: Wellhead: wellsite10@cimarex.com

SEC A: 13-3/8" 3M x 13-3/8" SOW SEC B: 13-5/8" 3M X 7-1/16" 5M

Xmas Tree

5M

2 7/8" L80 EUE Tubing:

Superintendent: Dee Smith

Engineer:

Art Metcalfe (432) - 269 - 9042

Lse Serial #:

Field:

Lusk

Objective: TVD/MD:

1st Bone Spring 9,945' / 14,600'

Cementing:

Halliburton

Mud:

MI

Motors: **OH Logs** WeatherFord Halliburton

Ria:

Key 884

Offset Wells:

Section Mills

WeatherFord

Scraper / Brush

MI

Hole Size	Formation Tops	Other Logs	Bit IADC	Cement	Mud Weight
17-1/2"	20" Conductor @ ±60' 13-3/8", 48.0#, H40, ST&C @ ±	1355' TVD			
12 1/4"	9-5/8",36#, @±5100'TVD		: HC404Z in the Lateral		
7 7/8" KOP @ ± 8795' Build 30 deg/ 100	Bone Spring ± 7,858' TV Liner Hanger 8695' Section Mill f/ 8780' t/ 88 1st Bone Spring ± 8,922 2nd Bone Spring ± 9,592 2nd Bone spring target of 4 3/4" hole TD ± 11,879' 3 1/2" 9.3ppf, p110 L	05' ' TVD '' TVD @ ± 9,000' TVD	ਂ USE JZ 46HA35L in the curve, and Baker HC404Z in the Lateral	220 sks, VersaCem-H + 0.5% Halad®-344 (Low Fluid Loss Control) + 0.5% CFR-3 (Dispersant), + 1 lbm.sk 1 lbm/sk Salt (Salt), + 0.2% HR-601 (Retarder), 14.5ppg, 1,22 cuff/sk, 5.37 gal/sk, 0% excess	Lateral 2% KCL 8.4 ppg
\\ \	35' of cement 13,	0' 378'-10,978' 150'-13,115']& 30 00 00 00 00 00 00 00 00 00 00 00 00	

NU BOP w/ rotating head and test BOP w/ test unit on 13-3/8" (SOW). Test casing.

Cement volumes for surface csg include a 100% excess lead and 50% tail in the open hole section. If drilling conditions deem necessary, fluid caliper hole and adjust volumes.

Cement volumes for intermediate csg include an excess of 70% lead and 25% tail in the open hole section. If drilling conditions deem necessary, fluid caliper hole and adjust volumes.

Cement volumes for production csg include an excess of 50% lead and 25% tail in the open hole section. Adjust volumes after caliper + 25% excess.

ALL INVOICES ARE TO SHOW CIMAREX ENERGY AS OPERATOR AND USE CIMAREX ACCOUNTING CODES.

Call BLM 4-Hrs prior to Spudding, Setting & Cmnt Casing, and BOPE test (575) 393-3612

Procedure Overview

- 1 Kill Well
- 2 Pull Tubing
- 3 Run CBL
- 4 Set CIBP @ 13150' W'35', cover the morrow
- 5 Set 25 sx plug at 10878-10978 (state requires a cement plug every 3000')
- 6 Set CIBP @ 9100' with 2 sks of sand
- 7 Scraper Run, pressure test to 6192psi 80% (N80 burst)
- 8 Section mill F/8780'to 8805', Drop Gyro Survey hole or set whipstock
- **9** Set KOP 16.5ppg KOP F/8750' t/9050'
- 10 Build Curve, POOH
- **11** Drill Lateral TD 11,878', TVD approx 9,000', 2966.41 VS

12 Run 3 1/2" Flush joint tubing w/ liner hanger via DP and cement in place **WELLBORE SCHEMATIC (AS IS)** COMPLETION SCHEMATIC GL 3,641' 13 3/8" 48# 1200sx Cmnt Circ 150 5,100ft 9 5/8" 36# 450 sks 1st Stage 2650 sks 2nd stage 2 7/8" L-80 6.5 #/ft WolfCamp 10928 TVD AB MOD Tbg. Strawn 12117 TVD 2.31 F Nipple Atoka 12480 TVD 1 Jt 2 7/8" L-80 Morrow 13130 TVD XL On/Off Tool Guiberson Latch Seal Assembly Guiberson GT Perm Guiberson GT Perm Pkr w/ 2.25 F nipple @ 13068 Middle Morrow 13240-248, 13318-324,13364-370 6 spf Guiberson Magnum Perm Pkr w/ 1.812 R nipple below Middle Morrow 13390-398 Middle Morrow 13548-550 CIBP @ 13560w/15 ft cmt Middle Morrow-13582-596 Lower Morrow- 13603-624 Sqz'd 11/9/89 5 1/2:" 17" S95 & N80 13800' 1100SKS 13800' TD