

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

SND; Delaware

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. Maricfeld Street, Suite 600 Midland, TX 79706		² OGRID Number 162683
		³ API Number 30-025-32108
⁴ Property Code 13466	⁵ Property Name Saffron AON State	⁶ Well No. 001

⁷ Surface Location									
UL - Lot G	Section 2	Township 23S	Range 32E	Lot Idn	Feet from 2310	N/S Line N	Feet From 1650	E/W Line E	County Lea

⁸ Proposed Bottom Hole Location									
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information	
Pool Name	Pool Code

Additional Well Information				
¹¹ Work Type Re-entry	¹² Well Type S- SWD	¹³ Cable/Rotary Rotary	¹⁴ Lease Type S - State	¹⁵ Ground Level Elevation 3739
¹⁶ Multiple No	¹⁷ Proposed Depth 10,320	¹⁸ Formation Bell Canyon / Cherry Canyon	¹⁹ Contractor	²⁰ Spud Date November 12, 2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

SND-1446

²¹ Proposed Casing and Cement Program						
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	54.5	1169	1100	Surface
Intermediate	11"	8 5/8"	32	4765	1850	Surface
Production	7 7/8"	5 1/2"	17	10320	1340	3165

Casing/Cement Program: Additional Comments

Please see attachments.

²² Proposed Blowout Prevention Program			
Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

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 I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable. Signature: <i>Michelle Chappell</i>		OIL CONSERVATION DIVISION	
Printed name: Michelle Chappell		Approved By: <i>[Signature]</i> Petroleum Engineer	
Title: Regulatory Technician		Title:	
E-mail Address: mchappell@cimarex.com		Approved Date: <i>11/08/13</i> Expiration Date: <i>11/08/15</i>	
Date: 11/01/2013 Phone: 432-620-1959		Conditions of Approval Attached	

NOV 12 2013

Cimarex Energy Co. of Colorado

Saffron AON State 1

API 30-025-32108

Sec. 2, T23S, R32E, Lea County, NM

21. Casing/Cement Program: Additional Comments

Cimarex Energy Co. of Colorado respectfully requests approval to re-enter the wellbore and convert to an SWD according to the following plan: Drill out cement and plugs at 0-50', 240'-400', 990'-1219', 1920'-2200', 4530'-4725', 4975'-5010', and 6555'-6590'. We will pressure test squeeze holes to 500 psi as they are drilled out and squeeze as needed based on results. Then we plan to clean out to PBTD @ 7500'. RIH and perf 5468' – 7424' and acidize with approximately 20,000 gals of 15% HCL. RIH with tubing and packer and set at approximately 5,418'. MIT to 500# for 30 minutes and record data for submission to the OCD. We will notify the OCD 24 hours prior to test for witnessing. We have been granted the Administrative Order SWD-1446. Please find attached before and after well bore diagrams.

Cimarex Energy Company of Colorado
 Saffron AON State #1
 2310' FNL & 1650' FEL
 Sec. 2, T23S-R32E Lea County, NM

API 30-025-32108

Present P&A Configuration of Yates Saffron AON State No. 1

PLUG AND ABANDON WELL DIAGRAM

API: 3002532108
 Operator: Yates Petroleum Corp
 Lease: Saffron AON State Well No: 1
 Location: Sec 2, T23S-R32E Lea Co., NM
 Footage: 2310 FNL, 1650 FEL

KB: 3754
 GL: 3739
 Spud date: August 26, 1993
 Plugged: August 31, 2006
 MSL of TD: -6566

Surface Csg

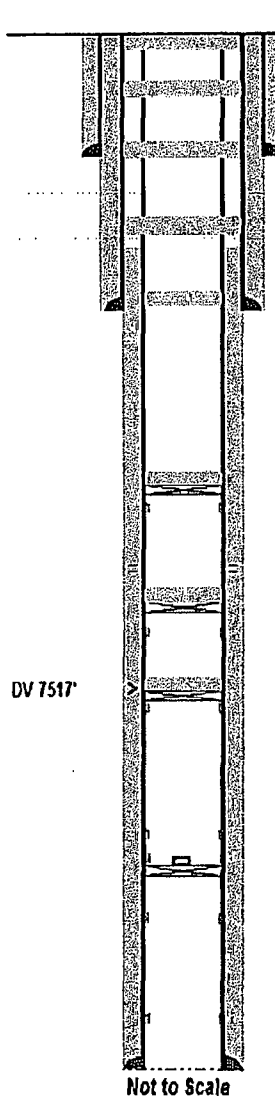
Size: 13-3/8" 54.5#
 Set @: 1169
 Sxs cmt: 1100
 Circ: Yes
 TOC: Surf
 Hole Size: 17-1/2"

Intermediate Csg

Size: 8-5/8" 32# HC80/J55
 Set @: 4,765
 Sxs cmt: 1850
 Circ: Yes
 TOC: Surf
 Hole Size: 11"

Production Csg

Size: 5-1/2" 17# N-80
 Set @: 10320
 Sxs cmt: 1340
 Circ: No
 Hole Size: 7-7/8"



0
 10 sxs to surface
 Perf 400' sqzd 35 sx cmt, tagged 240'
 1169
 Perf 1219' sqzd 35 sx cmt, tagged 990'
 Perf 2200' sqzd 35 sx cmt, tagged 1920'
 TOC 5-1/2" 3165' CBL
 4765
 25 sx cmt 4725' tagged @4530'
 Top Delaware Sd 4997'
 CIPB 5010' + 35' CMT
 Perf 5036-68'
 Perfs 6604-67' Sqzd w/120 sx cmt. Tested OK
 CIBP 6590' + 35' cmt
 Perfs 7046-50', 7066-70'
 Perfs 7410-24'
 CIBP 7535' + 35' cmt
 perfs 7544-45', 7580-98'
 Perfs 8545-82'
 RBP 9000' Perfs 8732-8794'
 Top Bone Springs 9045'
 Perfs 9118-24', 9215-29'
 Perfs 9974-10209'
 TD 10320

Cimarex Energy Company of Colorado
 Saffron AON State #1
 2310' FNL & 1650' FEL
 Sec. 2, T23S-R32E Lea County, NM

API 30-025-32108

Proposed Configuration for Saffron AON State #1 SWD Conversion

Proposed Cimarex Saffron AON State #1 SWD

API: 3002532108

Operator: Cimarex Energy Co. of Colo.

Lease: Saffron AON State Well No:

Location: Sec 2, T23S-R32E Lea Co., NM

Footage: 2310 FSL, 1650 FEL

KB: 3754

GL: 3739

Spud date: August 26, 1993

Plugged: August 31, 2006

MSL of TD: -6566

Surface Csg

Size: 13-3/8" 54.5#

Set @: 1169

Sxs cmt: 1100

Circ: Yes

TOC: Surf

Hole Size: 17-1/2"

Rustler 1218'

Salado 2915'

B/salt 4655'

Bell Cn 4950'

P&A 400' sqzd 35 sx cmt, tagged 240'

1169

P&A 1219' sqzd 35 sx cmt, tagged 990'

P&A 2200' sqzd 35 sx cmt, tagged 1920'

TOC 5-1/2" 3165' CBL

4765

Intermediate Csg

Size: 8-5/8" 32# HC80/J55

Set @: 4,765

Sxs cmt: 1850

Circ: Yes

TOC: Surf

Hole Size: 11"

Sqz perms 5036-68' w/100 sx cmt

Pkr approx 5418

Perfs 5468'-7424' OA

Production Csg

Size: 5-1/2" 17# N-80

Set @: 10320

Sxs cmt: 1340

Circ: No

Hole Size: 7-7/8"

Cherry Cn 6406'

Orig perms 6604-67' Sqzd

Orig Perfs 7046-50', 7066-70'

Orig Perfs 7410-24'

CIBP 7535' + 35' cmt

perms 7544-45', 7580-98'

Perfs 8545-82'

RBP 9000' Perfs 8732-8794'

Perfs 9118-24', 9215-29'

Perfs 9974-10209'

TD 10320

Tubular requirements (made-up):
 5408' 3-1/2" J55 9.3# upset Fiberglass coated
 Lok-Set equiv packer set approx 5408

DV 7517'

Brusy Cn 7695'

Bone Spgs 9045'

Perf and acidized selectively
 Load tubing annulus w/corrosion inhibitor
 Complete surface head for disposal

Not to Scale

3000# BOP
Saffron AON State 1
Cimarex Energy Co. of Colorado
Sec. 2, T23S, R32E
SHL 2310' FNL & 1650' FEL
Lea County, NM

3M Double Ram BOP

