

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

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

¹ Operator Name and Address Cimarex Energy Co. 600 N. Marienfeld, Suite 600 Midland TX 79705		² OGRID Number 162683
		³ API Number 30-015-33228
⁴ Property Code 300597	⁵ Property Name Crawford 26	⁶ Well No. #2

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
B	26	24S	26E		990'	N	1980'	E	Eddy

*** 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

Proposed	Pool Name	Pool Code

Additional Well Information

¹¹ Work Type Plug Back	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type Fee	¹⁵ Ground Level Elevation 3271
¹⁶ Multiple	¹⁷ Proposed Depth PBTD- 9981'	¹⁸ Formation Bone Spring	¹⁹ Contractor	²⁰ Spud Date 06/16/2004
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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	48# H40	437'	650- Class C	0'
Intermediate	12.25"	9.625"	36# J55	3825'	1150- Class C	0'
Production	8.75"	5.5"	17# P110	11840'	1425- Class C	4390'

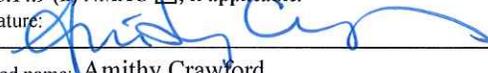
Casing/Cement Program: Additional Comments

Existing well- Casing Previously set.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

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: 

Printed name: Amithy Crawford

Title: Regulatory Analyst

E-mail Address: acrawford@cimarex.com

Date: 9/4/2019

Phone: 432-620-1909

OIL CONSERVATION DIVISION	
Approved By: DENIED - Well Plugged after submittal	
Title:	
Approved Date:	Expiration Date:
Conditions of Approval: attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-33228	² Pool Code 96415	³ Pool Name Willow Lake, Bone Spring (West)
⁴ Property Code 300597	⁵ Property Name Crawford 26	⁶ Well Number #2
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	⁹ Elevation 3271

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	24S	26E		990'	North	1980	East	Eddy

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

<p>¹⁶</p>	<p>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 mineral 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>[Signature]</i> Date: 9/4/2019</p> <p>Amithy Crawford Printed Name</p> <p>acrawford@cimarex.com E-mail Address</p>
	<p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>



Pertinent Information:

Datum: 3271'

K.B.: 20'

Effective Depths: T.D.: 11840' PBTD: 11835'

Packer Depth: N/A

Producing Zone: Morrow (11,216' - 11,822')

Casing			
Size	Weight	Grade	Depth
5-1/2"	17#	P-110	11840'
Tubulars			
Size	Weight	Grade	Depth
2-3/8"	4.7#	L-80	11175'

Tubing Detail

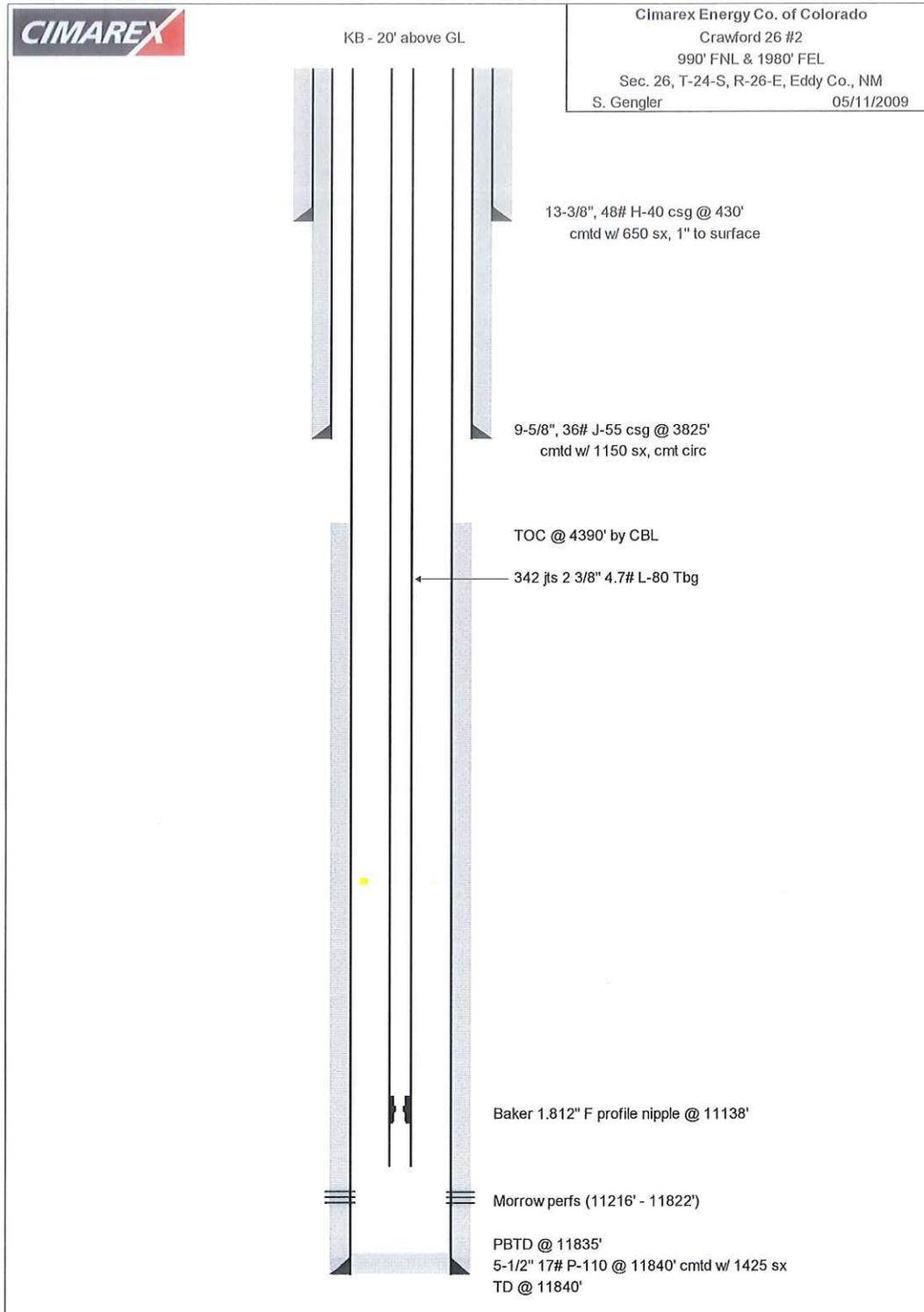
Crawford 26 #2

KB Correction 15

Quantity	Description	Length	Setting Depth
341 jts	2-3/8" 4.7# L-80 EUE 8rd tbg	11122.60	11137.60
1	2-3/8" X 1.812" Baker F profile nipple	0.75	11138.35
1 jt	2-3/8" 4.7# L-80 EUE 8rd tbg	32.64	11170.99
1	2-3/8" 2 -7/8" x-over	1.30	11172.29
1	Pump off bit sub	2.32	11174.61
	Total String Length	11159.61	

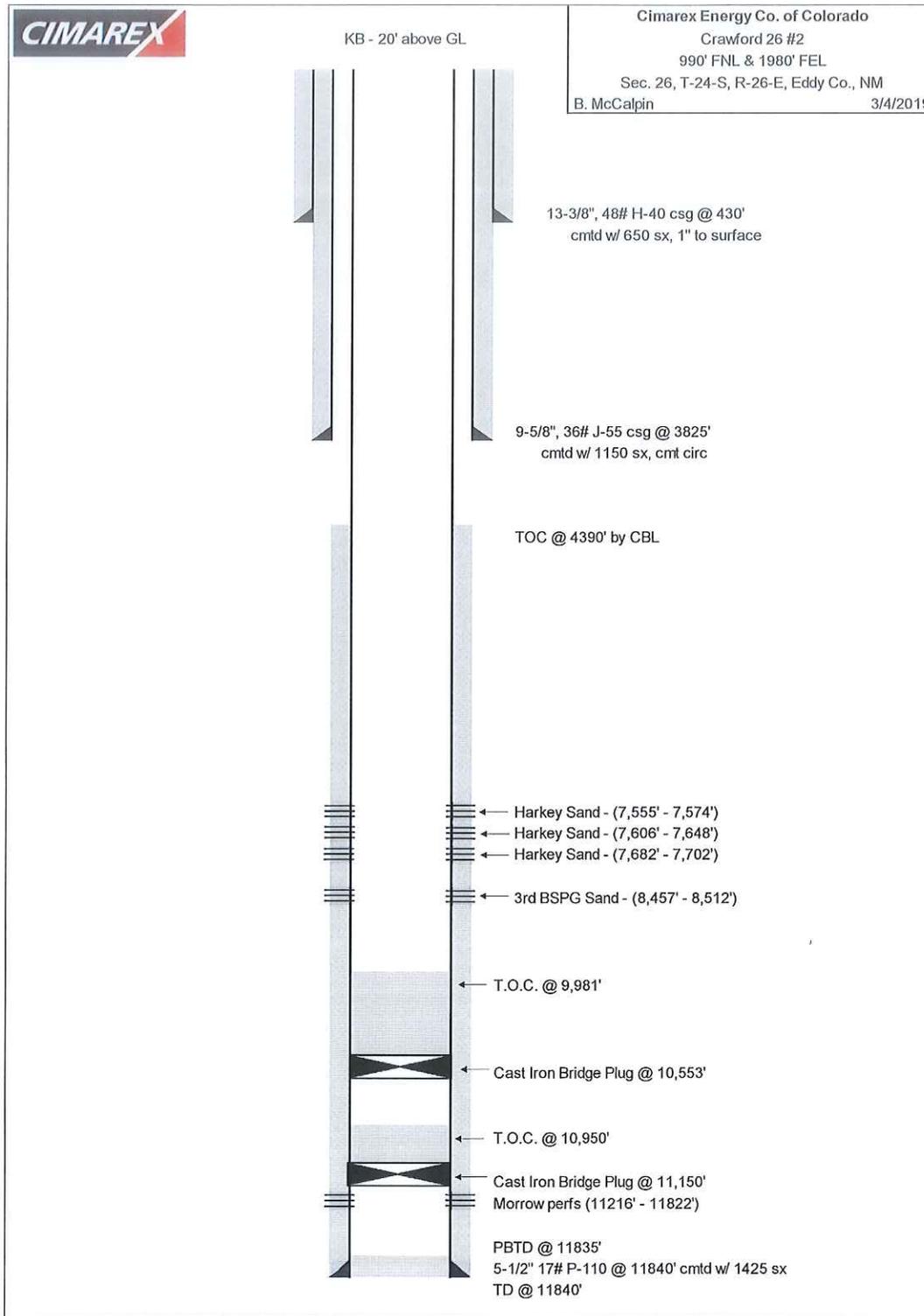


Current Wellbore Diagram





Proposed Wellbore Diagram





SAFETY NOTES:

No project or task is to be performed unless it can be done safely without harm to any persons or to the environment.

All work must comply with all State and Federal Regulations and with Cimarex Energy Safety and Environmental Policies.

All activities should be detailed in the morning reports.

Hold daily safety meetings and review all procedures with all contractors prior to performing the work.

Insure all contractors are familiar with, and comply with all relevant Cimarex Energy safety/environmental policies (hold pre-job safety meetings).

Spills should be prevented during all operations. Utilize a vacuum truck as necessary and all spills will be reported.

Verify that all pressurized lines and fittings meet or exceed the maximum anticipated working pressure.



Primary PROCEDURE

1. Check guy line anchors 3 days prior to rig up
2. Check tubing and casing pressures; bleed off backside to sales
3. Pump 30 bbls of produced water as needed to kill well; pump more as needed. Please note: expected BHP is expected to be ~1,200 psi
4. MIRU Downing WH services; Install 2-3/8" BPV in tubing hanger
5. MIRU pulling unit
6. ND WH, NU 5K BOP w/ 5K/10K adaptor spool and 2-3/8" pipe ram and blind ram, function test BOP
7. Remove BPV from hanger; release WH technician
8. TOOH standing back with 2-3/8" tubing noting condition of pipe as tripping out
9. MU TIH with 5.5" Cast Iron Bridge Plug to +/- 11,150' and set in joint
10. Load hole and pressure test to 500 psi and hold for 30 minutes
 - a. Notify Midland of results
11. MIRU Cement Pumping Unit
12. Pump 25 sacks of Class C Cement w/ Accelerator on CIBP @11,150'
13. WOC w/ tubing in hole
14. Once Cement is cured, tag top of cement plug and note depth.
15. TOOH with 2-3/8" Tubing
16. MU TIH with 5.5" Cast Iron Bridge Plug to +/- 10,553' and set in joint
17. Load hole and pressure test to 500 psi and hold for 30 minutes
18. Pump 85 sacks of Class C Cement e/ Accelerator on CIBP @ 10,553'
19. WOC w/ tubing in hole
20. Once cement is cured, tag top of cement plug and note depth
21. RIH with gauge ring to 8,520'; POOH with gauge ring
22. MU RIH to 8,512' with 3-3/8" perforating gun with 0.45" Entrance Hole, 60° phasing and 6 SPF; perforate from 8,512' to 8,457'
23. POOH with perf guns
24. MU TIH with 5-1/2" Retrievable Packer and 2-3/8" Tubing to +/- 8,430'; set packer
25. RIH with swab cups to 8,400' and swab a column of fluid; continue to swab until an oil cut is observed at surface and make note of % cut; if no oil cut is observed, contact Midland Office for decision on acidizing of zone; WAIT ON ORDERS
26. Once an oil cut is observed, POOH with swab cups
27. Unset and TOH with 2-3/8" Tubing and packer



28. MU RIH wireline set retrievable bridge plug to 7,710'; set plug
29. POOH with wireline setting tool
30. MU RIH to 7,702' with 3-3/8" perforating gun with 0.45" Entrance Hole, 60° phasing and 6 SPF; perforate from 7,702' to 7,682' with 60° phasing, 6 SPF
31. POOH with perf guns
32. MU TIH with 5-1/2" Retrievable Packer and 2-3/8" Tubing to +/- 7,650'; set packer
33. RIH with swab cups to 7,625' and swab a column of fluid; continue to swab until an oil cut is observed at surface and make note of % cut; if no oil cut is observed, contact Midland Office for decision on acidizing of zone; WAIT ON ORDERS
34. Once an oil cut is observed, POOH with swab cups
35. Unset and TOH with 2-3/8" Tubing and packer
36. RIH with 2-3/8" tubing to retrievable bridge plug at +/- 7,710'; latch on and unset plug
37. PU with retrievable bridge plug to 7,655' and set bridge plug in joint; POOH with 2-3/8" tubing and on/off tool
38. MU RIH to 7,648' with 3-3/8" perforating gun with 0.45" Entrance Hole, 60° phasing and 6 SPF; perforate from 7,648' to 7,606'
39. POOH with perf guns
40. MU TIH with 5-1/2" Retrievable Packer and 2-3/8" Tubing to +/- 7,580'; set packer
41. RIH with swab cups to 7,555' and swab a column of fluid; continue to swab until an oil cut is observed at surface and make note of % cut; if no oil cut is observed, contact Midland Office for decision on acidizing of zone; WAIT ON ORDERS
42. Once an oil cut is observed, POOH with swab cups
43. Unset and TOH with 2-3/8" Tubing and packer
44. RIH with 2-3/8" tubing to retrievable bridge plug at +/- 7,655'; latch on and unset plug
45. PU with retrievable bridge plug to 7,580' and set bridge plug in joint; POOH with 2-3/8" tubing and on/off tool
46. MU RIH to 7,574' with 3-3/8" perforating gun with 0.45" Entrance Hole, 60° phasing and 6 SPF; perforate from 7,574' to 7,555'
47. POOH with perf guns
48. MU TIH with 5-1/2" Retrievable Packer and 2-3/8" Tubing to +/- 7,530'; set packer
49. RIH with swab cups to 7,510' and swab a column of fluid; continue to swab until an oil cut is observed at surface and make note of % cut; if no oil cut is observed, contact Midland Office for decision on acidizing of zone; WAIT ON ORDERS
50. Once an oil cut is observed, POOH with swab cups
51. Unset and TOH with 2-3/8" Tubing and packer
52. POOH with packer
53. RDMO Wireline



54. RIH with 2-3/8" tubing to retrievable bridge plug at +/- 7,580'; latch on and unset plug
55. POOH with 2-3/8" tubing and bridge plug
56. ND BOP, NU WH
57. Notify Production foreman when work is complete
58. RDMO pulling unit
59. Evaluate for P&A
60. **Clean up all trash from location**