

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

NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 23 2017
RECEIVED
AMENDED REPORT

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

¹ Operator Name and Address Cimarex Energy Co. of Colorado 202 S. Cheyenne Ave Tulsa, OK 74103		² GRID Number 162683
⁴ Property Code 35027		³ API Number 30015-34280
⁵ Property Name Black Magic 6 Com		⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	6	25S	26E		1250	North	1250	East	Eddy

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
#1) WC-015 S2425361; Strawn (Gas) - 98221 #2) Sage Draw; Wolfcamp (Gas)-84407 #3) Walnut Canyon; Upper Penn (Gas)- 97566	multi

Additional Well Information

¹¹ Work Type P	¹² Well Type Gas	¹³ Cable/Rotary	¹⁴ Lease Type Fee	¹⁵ Ground Level Elevation 3387'
¹⁶ Multiple	¹⁷ Proposed Depth PBTD: 10363'	¹⁸ Formation Strawn or Wolfcamp & Cisco	¹⁹ Contractor	²⁰ Spud Date
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

*Csg previously set

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
*Surf	17.5	13-3/8"	48	330	741	Circ to Surf
*Int	12.25	9-5/8"	40	2230	815	Circ to Surf
*Prod	8.75	4-1/2"	11.6	12075	2235	3124'

Casing/Cement Program: Additional Comments

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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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: <i>Kimberleigh Rhodes</i> Printed name: Kimberleigh Rhodes Title: Regulatory Compliance E-mail Address: kirrhodes@cimarex.com Date 1/19/2017 Phone: 918-560-7081	<p style="text-align: center;">Accepted for record - NMOCD OIL CONSERVATION DIVISION</p> Approved By: <i>Raymond W. Sudary</i> Title: <i>Geologist</i> Approved Date: <i>2-3-2017</i> Expiration Date: <i>2-3-2019</i> Conditions of Approval Attached <i>COA - if Appropriate</i> <i>File Commingling of Prod. - Plan. OHC.</i>
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*Casing previously set - no new casing

NM OIL CONSERVATION

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Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources Department**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.

Santa Fe, NM 87505

JAN 23 2017

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-34280	² Pool Code 97566	³ Pool Name Walnut Canyon; Upper Penn (Gas)
⁴ Property Code 35027	⁵ Property Name Black Magic 6 Com	
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	
		⁶ Well Number 1
		⁹ Elevation 3387

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
A	6	25S	26E		1250	North	1250	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 319.4	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.

¹⁶ 	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. Signature _____ Date 1-19-17 Kimberleigh Rhodes Printed Name kirhodes@cimarex.com E-mail Address	
	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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____	

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Form C-102
JAN 23 2017 Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34280	² Pool Code 84407	³ Pool Name Sage Draw; Wolfcamp (Gas)
⁴ Property Code 35027	⁵ Property Name Black Magic 6 Com	
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	
		⁶ Well Number 1
		⁹ Elevation 3387

¹⁰ Surface Location

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¹¹ Bottom Hole Location If Different From Surface

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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.

<div style="border: 1px solid black; height: 100px; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> <div style="text-align: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">1250'</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; margin-right: 5px;"></div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">1250'</div> </div> </div> </div> </div>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p><i>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.</i></p> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"> <div style="display: flex; justify-content: space-between;"> <i>Kimberleigh Rhodes</i> 1-19-17 </div> <div style="display: flex; justify-content: space-between;"> Signature Date </div> </div> <p>Kimberleigh Rhodes</p> <p>Printed Name</p> <p>kirhodes@cimarex.com</p> <p>E-mail Address</p> <hr/> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"> <p>Date of Survey</p> </div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"> <p>Signature and Seal of Professional Surveyor:</p> </div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"> <p>Certificate Number</p> </div>
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State of New Mexico **NM OIL CONSERVATION** Form C-102
Energy, Minerals & Natural Resources Department **ARTESIA DISTRICT** Revised August 1, 2011
OIL CONSERVATION DIVISION **JAN 23 2017** Submit one copy to appropriate District Office
1220 South St. Francis Dr.
Santa Fe, NM 87505
RECEIVED ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34280	² Pool Code 98221	³ Pool Name WC-015 S242536l; Strawn (Gas)
⁴ Property Code 35027	⁵ Property Name Black Magic 6 Com	⁶ Well Number 1
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	⁹ Elevation 3387

¹⁰ Surface Location

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Black Magic 6 Com 1
Strawn Recompletion Procedure
Well Data

Age of Wellbore	January 2007
KB	19' above GL
TD	12,075'
PBTD	11,500'
Casing	13-3/8" 48# H-40 csg @ 330'. Cmt'd w/ 440 sx, 1" to surface w/ 301 sx. 9-5/8" 40# J-55 csg @ 2,230'. Cmt'd w/ 815 sx, cmt circ. 4-1/2" 11.6# P-110 @ 12,075'. Cmt'd w/ 1,130 sx. 1 st stage Cmt circ. DV Tool @ 7,760' cmt'd w/ 905 sx, TOC @ 3,124' by CBL
Tubing	2-3/8" 4.7# L-80 8rd @ 11,130' (342 jts)
Current Perf Intervals	Atoka perfs (10,418' – 10,454') Morrow perfs (11,150'-11,225')
Proposed Perf Intervals	Strawn perfs (10,267' – 10,363')

Procedure

Notify NMOCDD 24 hours prior to starting operations.

1. Test anchors prior to moving in rig.
2. Move in rig up pulling unit.
3. Kill well as necessary with 7% KCl.
4. Nipple down wellhead, nipple up 5,000 psi blow out preventer stack.
5. TOOH w/ 2-3/8" 4.7# L-80 tbg. Stand back tbg. Scan tubing during TOOH.
6. MIRU WL
7. RIH w/ GR/JB to +/- 10,398'
8. RIH to set CIBP at +/- 10,398'
9. RIH to bail 35' of cement on top of CIBP set at +/- 10,398' – Abandoning Atoka and Morrow perfs.
10. WOC 6-8 hours
11. Test casing to 5,000 psi on chart for 30 minutes with no more than 10% leakoff.
12. RIH w/ 4.6" gauge ring and junk basket on electric line to +/- 10,363'
13. RIH with 3-1/8" casing guns on electric line and perforate Strawn from 10,267' – 10,363'

14. RIH w/ BHA described below to set packer at +/- 8,272'. From downhole up:
 - a. 2-3/8" WEG
 - b. 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure
 - c. 1.875" XN profile nipple
 - d. 10' 2-3/8" 6.5# L-80 tbg sub
 - e. 4-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
15. RD WL and lubricator
16. TIH w/ on/off tool overshoot, GLVs, and 2-3/8" 4.7# L-80 tbg. Hydrotest in hole to 8500 psi.
17. Latch overshoot onto on-off tool and space out tubing
18. ND BOP, NU WH
19. RDMO pulling unit
20. RU pump truck and pump out plug
21. MIRU Propetro acid
22. Pump 19,000 total gallons of 15% NEFE HCl with 225 ball sealers down 2-7/8" tubing
23. Flush with 1 tubing volume 2% KCl
24. Put well on production. Swab well as necessary

If Strawn is uneconomic will proceed to complete in the Cisco and Wolfcamp:

Proposed Perf Wolfcamp (8,322' – 9,860') & Cisco Canyon (9,860' – 10,214')
Intervals

Procedure

1. Test anchors prior to MIRU PU.
2. MIRU PU, rental flare, and choke manifold.
3. Kill well with produced water if available or FW as necessary.
4. ND WH, NU 5K BOP
5. TOOH w/ 2-3/8" 4.7# L-80 tbg. Lay Down Tubing.
6. ND 5k BOP, NU WH
7. RU Wireline and 5k short lubricator
8. RIH w/ gauge ring/junk basket to +/- 10,249'
9. RIH w/ 4-1/2" CIBP and set at +/- 10,249'
10. RIH w/ bailer and bail 35' of cement on top of CIBP set at +/- 10,249'. Abandon Strawn.
11. RDMO Wireline and 5k short lubricator
12. RU pump truck
13. Pressure test 4-1/2" 11.6# P-110 casing to 8,500 psi (Max treating pressure, 80% of 10,690 psi burst) for 30 minutes on a chart with no more than 10% leak off.
14. RD pump truck
15. RU two 10k frac valves and flow cross, RDMO Pulling unit

16. MIRU water transfer with frac tanks to contain water to be pumped from frac pond
17. Test frac valves and flow cross prior to frac job. Arrange for these items, manlift, forklift, and Pace testers to be on location the day before the frac job to test so that we do not have the frac waiting on a successful test the following day.
18. RU frac valves, flow cross, goat head, and wireline lubricator.
19. RIH w/ gauge ring/junk basket for 4-1/2" 11.6# P-110 csg to +/- 10,214'
20. Perforate stage one Cisco Canyon from 9,860' – 10,214'.
21. RU frac and flowback equipment.
22. Acidize and frac Cisco Canyon perfs down casing.
23. Set 10k flow through composite plug 15' uphole of top perforation
24. Test to 8,500 psi
25. Perforate Wolfcamp from 8,322' – 9,860'.
26. Acidize and frac Wolfcamp perfs down casing.
27. Set 10k flow through composite plug 15' above top perforation
28. Test to 8,500 psi
29. RD frac
30. MIRU 2" coiled tbg unit.
31. RIH w/ blade mill & downhole motor on 2" CT and drill out sand and composite plugs using freshwater for circulation. Pump sweeps each time a plug is tagged, each time a plug is drilled out, and every 60 bbls pumped.
32. Clean out to PBTD 10,333'
33. POOH w/ blade mill, motor & CT
34. RDMO coiled tbg unit.
35. Flow back well for 24 hours, then SI well overnight.
36. RU wireline and lubricator.
37. RIH w/ GR/JB for 4-1/2" 11.6# P-110 to +/- 8,322'
38. RIH w/ 2-3/8" WEG, 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure, 10' 2-3/8" 4.7# L-80 tbg sub w/ 1.875" XN profile nipple w/ blanking plug in place, 4-1/2" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple. Set packer +/- 8,272'. From downhole up:
 - a. 2-3/8" WEG
 - b. 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure
 - c. 1.875" XN profile nipple
 - d. 10' 2-3/8" 4.7# L-80 tbg sub
 - e. 4-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
39. RD WL and lubricator
40. ND goat head and frac valve, NU BOP, MIRU Pulling Unit
41. TIH w/ on/off tool overshot, GLVs, and 2-3/8" 4.7# L-80 tbg.
42. Latch overshot onto on-off tool and space out tubing
43. ND BOP, NU WH

44. RDMO pulling unit
45. RU pump truck and pump out plug. Put well on production.
46. **Run Production Log for allocation purposes after recovering load. Run additional production logs if actual production varies significantly from expected performance. Send copies of these logs to BLM and file for an adjustment of allocation factor if necessary.**

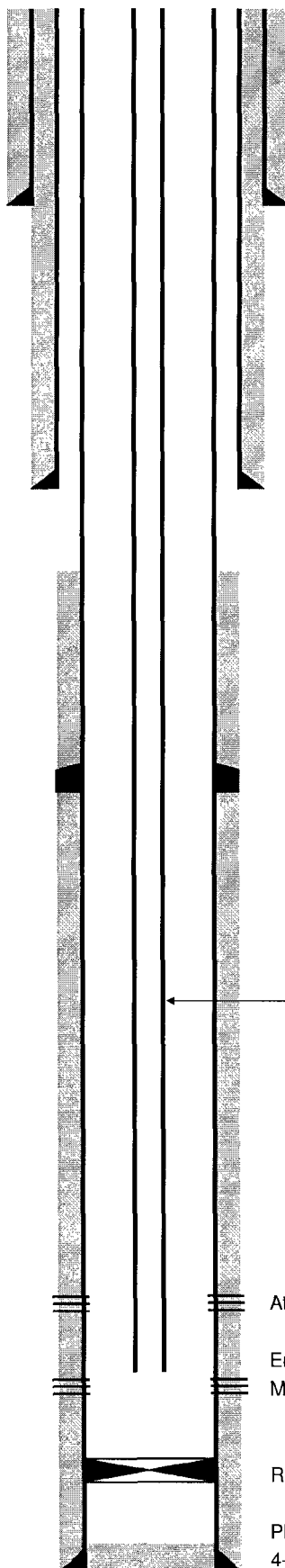
Downhole Commingle Order - DHC-3871-A



Current WBD
KB - 19' above GL

Cimarex Energy Co. of Colorado

Black Magic 6 Com #1
1250' FNL & 1250' FEL
Sec. 6, T-25-S, R-26-E, Eddy Co., NM
S. Gengler 01/06/2010



13 3/8", 48# H-40 csg @ 330'
cmtd w/ 440 sx, 1" to surface w/ 301 sx

9 5/8", 40# J-55 csg @ 2230'
cmtd w/ 815 sx, cmt circ

TOC @ 3124' by CBL

DV Tool @ 7760'
cmtd w/ 905 sx

342 jts 2 3/8" 4.7# L-80 Tbg

Atoka perms (10418' - 10454')

End of tbg @ 11130'
Morrow perms (11150' - 11225')

Remains of CIBP @ 11500'

PBTD @ 11814'
4-1/2" 11.6# P-110 @ 12075' cmtd w/ 1130 sx
TD @ 12075'



Proposed Strawn WBD

KB - 19' above GL

Cimarex Energy Co. of Colorado

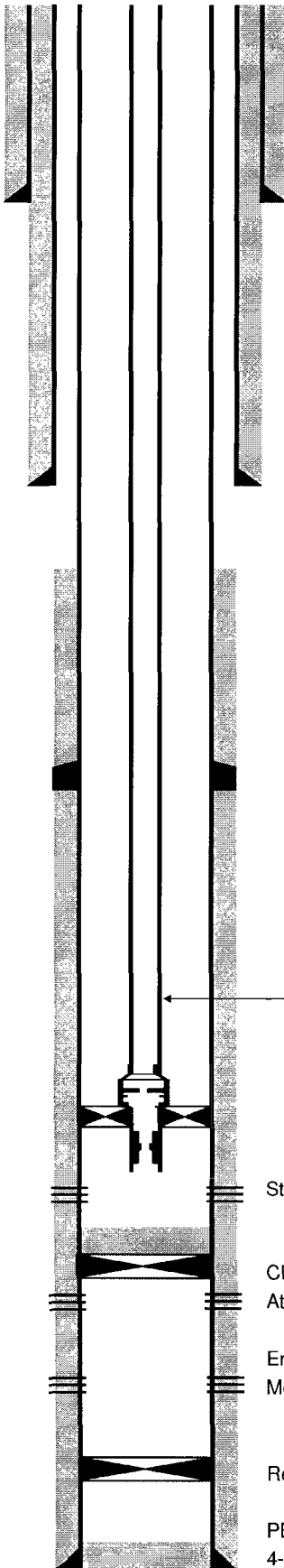
Black Magic 6 Com #1

1250' FNL & 1250' FEL

Sec. 6, T-25-S, R-26-E, Eddy Co., NM

S. Gengler

01/06/2010



13 3/8", 48# H-40 csg @ 330'
cmtd w/ 440 sx, 1" to surface w/ 301 sx

9 5/8", 40# J-55 csg @ 2230'
cmtd w/ 815 sx, cmt circ

TOC @ 3124' by CBL

DV Tool @ 7760'
cmtd w/ 905 sx

2 3/8" 4.7# L-80 Tbg

Strawn perfs (10,267' - 10,363')

CIBP @ 10,398' w/ 35' cmt bailed on top
Atoka perfs (10418' - 10454')

End of tbg @ 11130'
Morrow perfs (11150' - 11225')

Remains of CIBP @ 11500'

PBTD @ 11814'
4-1/2" 11.6# P-110 @ 12075' cmtd w/ 1130 sx
TD @ 12075'



Proposed WBD
KB - 19' above GL

Cimarex Energy Co. of Colorado

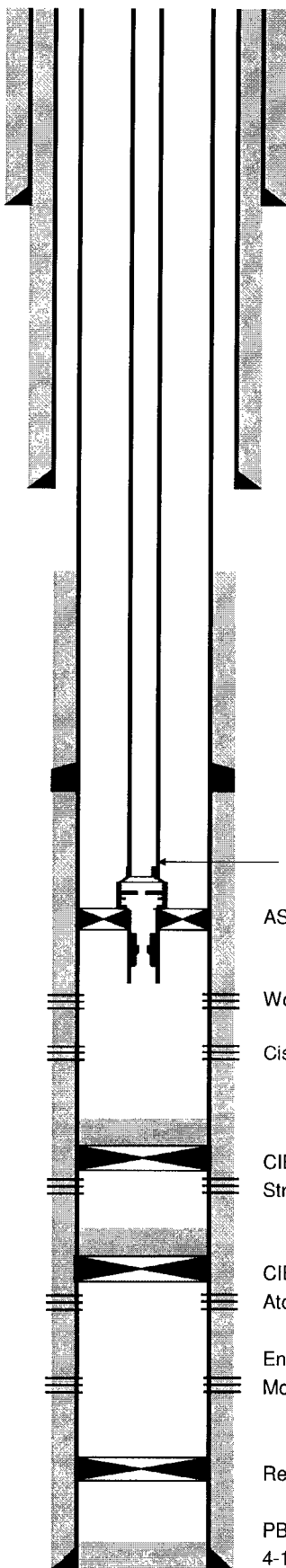
Black Magic 6 Com #1

1250' FNL & 1250' FEL

Sec. 6, T-25-S, R-26-E, Eddy Co., NM

M. Karner

11/11/2016



13 3/8", 48# H-40 csg @ 330'
cmtd w/ 440 sx, 1" to surface w/ 301 sx

9 5/8", 40# J-55 csg @ 2230'
cmtd w/ 815 sx, cmt circ

TOC @ 3124' by CBL

DV Tool @ 7760'
cmtd w/ 905 sx

2-3/8" 4.7# L-80 Tbg

AS-1X Packer @ +/- 8,272'

Wolfcamp Perfs (8,322' - 9,860')

Cisco Canyon Perfs (9,860' - 10,214')

CIBP set at +/- 10,249' w/ 35' of cement bailed on top
Strawn perfs (10,267' - 10,363')

CIBP set at +/- 10,398' w/ 35' of cement bailed on top
Atoka perfs (10,418' - 10,454')

End of tbg @ 11130'
Morrow perfs (11,150' - 11,225')

Remains of CIBP @ 11500'

PBTD @ 11814'
4-1/2" 11.6# P-110 @ 12075' cmtd w/ 1130 sx
TD @ 12075'