

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator CIMAREX ENERGY COMPANY OF CO	Contact: TERRI STATHEM Email: tstathem@cimarex.com	5. Lease Serial No. NMLC065347
3a. Address 202 S CHEYENNE AVE SUITE 1000 TULSA, OK 74103.4346	3b. Phone No. (include area code) Ph: 432-620-1936	8. Well Name and No. WHITE CITY PENN 28 GAS COM Unit 3 #4	6. If Indian, Allottee or Tribe Name
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T24S R26E NESW 1980FSL 1500FWL	9. API Well No. 30-015-33862-00-S2	10. Field and Pool or Exploratory Area WC-015 G-04 0220200 Bone Spg, 5242628K	7. If Unit or CA/Agreement, Name and/or No.
		11. County or Parish, State EDDY COUNTY, NM	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must 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 Energy Co. of Colorado respectfully requests approval to recompleate the White City Penn A 28 Gas com Unit 3 #4 well to the White City; Penn (Gas) pool (Strawn formation) according to the attached procedure. If the Strawn is uneconomic Cimarex proposes to add Cisco Canyon perfs in the White City Penn (Gas) pool and also perf the Wolfcamp formation as indicated on the attached procedure.

Cimarex also requests approval to downhole commingle the Cisco Canyon and the Wolfcamp pools. The 2016 White City Area Downhole commingling Field Study included the referenced well for commingling. The field study was approved 7/6/16.

Bone Spring will be produced via annulus

NMOCD DHC permit: DHC 4805

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARTESIA DISTRICT
APR 10 2017
RECEIVED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #366780 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 02/14/2017 (17DLM0869SE)

Name (Printed/Typed) TERRI STATHEM	Title MANAGER REGULATORY COMPLIANCE
Signature (Electronic Submission)	Date 02/11/2017

APPROVED
MAR 30 2017
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Approved By _____ Title _____
Office _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

D.P.V. 10.17

Additional data for EC transaction #366780 that would not fit on the form

32. Additional remarks, continued

Attachments: C102, procedure, wellbore diagrams, oil, water, & gas analyst, and DHC worksheet.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6164 Fax: (575) 393-8720
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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

OIL CONSERVATION
ARTESIA DISTRICT Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office
APR 10 2017
RECEIVED
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-33862	² Pool Code 87280	³ Pool Name White City;Penn (Gas)
⁴ Property Code 303010	⁵ Property Name White City Penn 28 Unit 3	
⁷ OGRID No. 162683	⁶ Operator Name Cimarex Energy of Colorado	
		⁸ Well Number 4
		⁹ Elevation 3076'

¹⁰ Surface Location

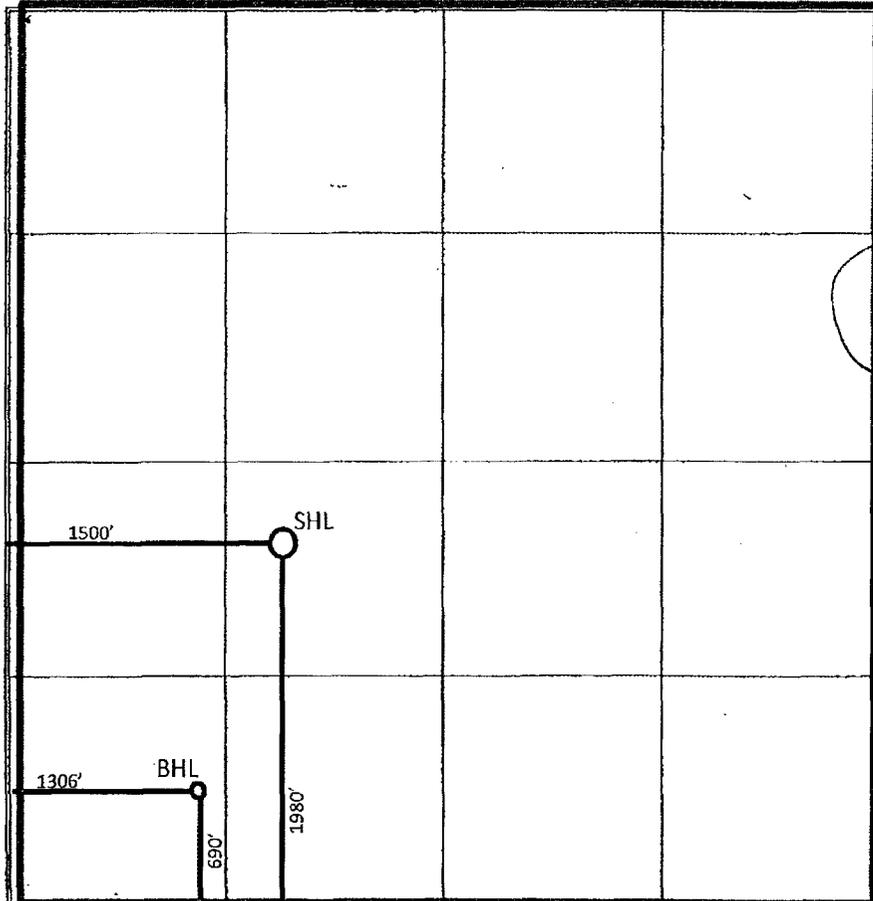
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	24S	26E		1980	South	1500	West	Eddy

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
N	28	24S	26E		690	South	1306	West	Eddy

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consultation 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.



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: *Terri Stathem* Date: **2-13-17**
Printed Name: **Terri Stathem**
E-mail Address: **Tstathem@cimarex.com**

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

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

APR 10 2017
RECEIVED
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-33862	⁷ Pool Code 98220	³ Pool Name Purple Sage – Wolfcamp (Gas)
⁴ Property Code 303010	⁵ Property Name White City Penn 28 Unit 3	
⁷ OGRID No. 162683	⁶ Operator Name Cimarex Energy of Colorado	
		⁸ Well Number 4
		⁹ Elevation 3076'

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
K	28	24S	26E		1980	South	1500	West	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
N	28	24S	26E		690	South	1306	West	Eddy

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---------------------------------------------	-------------------------------	----------------------------------	-------------------------

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>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 style="text-align: right;"> Signature _____ Date 2-13-17 Terri Stathem Printed Name T Stathem@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 _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____</p>
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Downhole Commingling Worksheet

Operator: Cimarex Energy
 Lease/Well Name/API Number/Location: White City Penn 28 Gas Com Unit 3 #4/30-015-33862/Sec. 28, T24S, R26E
 Date:

	Bottom Formation	Upper Formation	Estimated Combined Production Data
Data	White City, Penn (Gas)	Purple Sage - Wolfcamp Gas	
Pool name	87280	98220	
Pool Code	640 acres	320 acres	
State Form C-102 with dedicated Acres Provided	Cisco Canyon	Wolfcamp	
Formation Name			
Top and Bottom of Pay Section (Perforated or open-hole interval)	9,680' - 9,969'	8,349' - 9,680'	8,349' - 9,969'
Method of production	Flowing	Flowing	Flowing
Bottom Hole Pressure	Within 150% of top perf	Within 150% of top perf	Within 150% of top perf
Reservoir Drive mechanism	Gas Drive	Gas Drive	Gas Drive
Oil gravity and/or BTU	Oil: 53.5° API Gas: 1142.4 BTU dry / 1122.6 BTU wet @ 14.73 psi	Oil: 51.8° API Gas: 1225.8 BTU dry / 1204.6 BTU wet @ 14.73 psi	Oil: 52.1° API Gas: 1212.5 BTU dry / 1191.5 BTU wet @ 14.7 psi
Average Sulfur Content (Wt %)	0	0	0
Oil sample Analysis provided	Yes	Yes	
Gas Analysis provided	Yes	Yes	
Produce Water Analysis provided	Yes	Yes	
H2S present	No	No	No
Producing, Shut-in or New Zone	New Zone	New Zone	
Date and Oil/Gas/Water rates of Last Production (new zones or no production history Operator shall attached production estimated and supporting data)	Date: N/A Expected Rate: 16 BOPD, 401 MCFPD, 101 BWPD	Date: N/A Expected Rate: 84 BOPD, 2,406 MCFPD, 532 BWPD	Date: N/A Expected Rate: 100 BOPD, 2507 MCFD, 633 BWPD
Average decline % (provide back up data)	7% (terminal)	7% (terminal)	7% (terminal)
Fixed Allocation Percentage	Oil: 16% Gas: 16%	Oil: 84% Gas: 84%	Oil: 100% Gas: 100%

Remarks: Production history for analogs for both zones provided in field study appendix.

Operator Signature: 

Date: 2-13-17

Attached Supporting documents
 State Form C-102 with dedicated Acres Provided
 Oil sample Analysis provided (Must be current)
 Gas Analysis provided (Must be current)
 Produce Water Analysis provided (Must be current)
 Any additional supporting data (i.e. offset well production and decline curves etc.)
 *Utilize weighted average.



White City Penn 28 Gas Com Unit 3 #4
Plugback Procedure

Well Data

KB	21'
TD	11,900'
PBTD	10,492'
Casing	13-3/8" 54.5# J-55 @ 350'. Cmt'd w/ 350 sx, cmt circ 9-5/8" 40# N-110HC @ 1,600'. Cmt'd w/ 700 sx, cmt circ 5-1/2" 17# P-110 @ 11,900'. Cmt'd w/ 1,175 sx. TOC @ 2,750' by CBL
Tubing	2-3/8" 4.7# L-80 8rd, EOT
Current Prod. Perfs	Bone Spring (6,622' – 6,883')
Proposed RC Perfs	Strawn (9,969' – 10,121')

White City; Penn (Strawn) Procedure

Notify BLM 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/ rods, pump, and 2-3/8" 4.7# L-80 tbg. Stand back tbg. Scan tubing during TOOH.
6. RU wireline
7. RIH w/ GR/JB to +/- 10,121'
8. RIH w/ casing guns to perforate Strawn 9,969' – 10,121' ~
9. RIH to set packer w/ pump out plug set to 1800 psi differential pressure at +/- 9,919'
10. RDMO Wireline
11. TIH w/ 2-3/8" tbg and gas lift valves to latch into packer
12. ND BOP, NU WH
13. RDMO pulling unit
14. RU pump truck and pump out plug
15. MIRU Propetro acid
16. Pump 20,000 total gallons of 20% NEFE HCl with 225 ball sealers down 2-3/8" tubing
17. Flush with 1 tubing volume 2% KCl
18. Put well on production. Swab well as necessary. Produce Strawn via tubing and Bone Spring via annulus.

If Strawn recompletion is unsuccessful, move forward with procedure to plugback to the Cisco Canyon and Wolfcamp and DHC these two zones and continue to produce the Bone Spring via annulus.

Cisco Canyon & Wolfcamp (Ciscamp) Recompletion Procedure

Proposed RC Perfs Wolfcamp (8,349' – 9,680') & Cisco Canyon (9,680' – 9,969')

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. Release packer and TOOH w/ 2-3/8" 4.7# L-80 tbg. Stand back Tubing.
6. MIRU WL
7. RIH w/ CIBP and set at +/- 10,004' topped @ 9,969', 50 CIBP @ 9,919'
8. RIH w/ WL to bail 35' of cement on top of WL set at +/- 10,004'
Note: This will place TOC at top of Strawn
9. RU Pump truck and pressure test casing to 8,500 psi on a chart for 30 minutes with no more than 10% leak off.
10. ND 5k BOP, RDMO PU
11. RU two 10k frac valves and flow cross
12. MIRU water transfer with frac tanks to contain water to be pumped from frac pond
13. 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.
14. RU frac valves, flow cross, goat head, and wireline lubricator.
15. RIH w/ gauge ring/junk basket for 5-1/2" 17# P-110 csg to +/- 9,969'
16. Perforate Cisco Canyon from 9,680' – 9,969'.
17. RU frac and flowback equipment.
18. Acidize and frac Cisco Canyon perfs down casing.
19. Set 10k flow through composite plug 15' uphole of top perforation
20. Test to 8,500 psi
21. Perforate Wolfcamp from 8,349' – 9,680'.
22. Acidize and frac Wolfcamp perfs down casing.
23. Set 10k flow through composite plug 15' above top perforation
24. Test to 8,500 psi
25. RD frac
26. MIRU 2" coiled tbg unit.
27. 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.
28. Clean out to PBTD 9,969'
29. POOH w/ blade mill, motor & CT

Page 3 White City Penn 28 Gas com Unit 3 #4

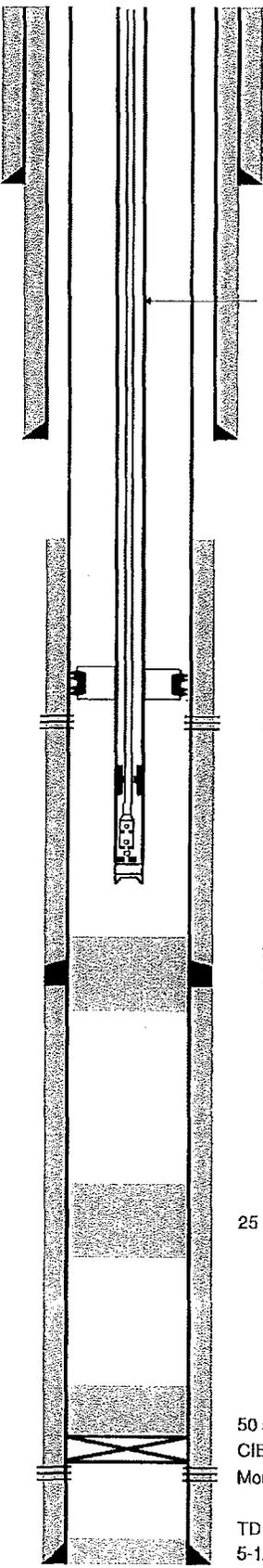
30. RDMO coiled tbg unit.
31. Flow back well for 24 hours, then SI well overnight.
32. RU wireline and lubricator.
33. RIH w/ GR/JB for 5-1/2" 17# P-110 to +/- 8,299'
34. RIH w/ 2-3/8" WEG, 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure, 10' 2-3/8" 4.7# L-80 tbg sub w/ 1.875" XN profile nipple w/ blanking plug in place, 5-1/2" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple. Set packer +/- 8,299'. 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. 5-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
35. RD WL and lubricator
36. ND goat head and frac valve, NU BOP, MIRU Pulling Unit
37. TIH w/ on/off tool overshot, GLVs, and 2-3/8" 4.7# L-80 tbg.
38. Latch overshot onto on-off tool and space out tubing
39. ND BOP, NU WH
40. RDMO pulling unit
41. RU pump truck and pump out plug. Put well on production.
Produce Ciscamp via tubing and Bone Spring via annulus.

42. **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.**



Current WBD
KB - 23' above GL

Cimarex Energy Co. of Colorado
White City Penn 28 Gas Com Unit 3 #4
SHL - 1980' FSL & 1500' FWL
BHL - 690' FSL & 1306' FWL
Sec. 28, T-24-S, R-26-E, Eddy Co., NM
M. Karner 04/5/2016



13-3/8", 54.5# J-55 csg @ 350'
cmtd w/ 350 sx, cmt circ

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

9-5/8", 40# NS-110HC csg @ 1600'
cmtd w/ 700 sx, cmt circ

TOC @ 2750 by CBL-DP Jan 2015

Bone Springs perms (6,622' - 6,883')

25 sx Class H cement plug from 7,197' - 6,982'
DV Tool @ 7083'
cmtd w/ 1550 sx

25 sx Class H cement plug from 8,436' - 8,184'

50 sx Class H cement plug tagged at 10,492'
CIBP @ 10,910'
Morrow perms (10996' - 11541')

TD @ 11751'
5-1/2" 17# P-110 @ 11900' cmtd w/ 1175 sx
TD @ 11900'

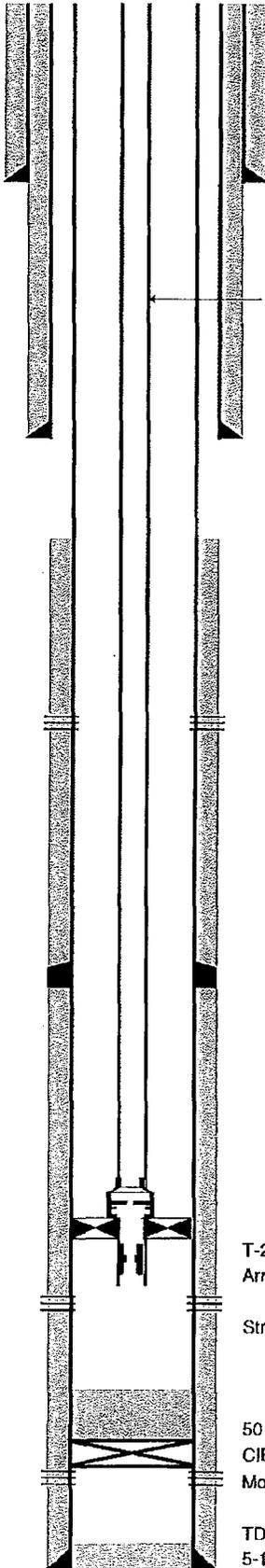
Tubing:
2-3/8" 4.7# L-80 lbg to surface (208 jts)
2-3/8" x 5-1/2" TAC @ 6,585'
10 jts 2-3/8" 4.7# L-80 tbg @ 6,588'
2-3/8" API Cup Type SN @ 6,904'

Rods:
1.5" x 30' Polished Rod at Surface
706' x 3/4" Weatherford HD Steel Rods
not guided (25 jts and one 6' pony rod)
875' x 3/4" Weatherford HD Steel Rods
with 4 molded guides per rod (35 jts)
5,000' x 3/4" Weatherford HD Steel Rods
not guided (200 jts)
225' x 1.5" Flexbar C (9 jts)
J-latch on/off tool at 6,836'
25' x 1.5" Flexbar C (1 jt)
1.3' Guided Lift Sub at 6,862'
30' length 1.5" Insert pump @ 6,893'



Proposed WBD
KB - 23' above GL

Cimarex Energy Co. of Colorado
White City Penn 28 Gas Com Unit 3 #4
SHL - 1980' FSL & 1500' FWL
BHL - 690' FSL & 1306' FWL
Sec. 28, T-24-S, R-26-E, Eddy Co., NM
M. Karner 04/5/2016



13-3/8", 54.5# J-55 csg @ 350'
cmtd w/ 350 sx, cmt circ

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

9-5/8", 40# NS-110HC csg @ 1600'
cmtd w/ 700 sx, cmt circ

TOC @ 2750 by CBL-DP Jan 2015

Bone Springs perms (6,622' - 6,883')

DV Tool @ 7083'
cmtd w/ 1550 sx

T-2 on-off Tool w/ 1.875" X Profile nipple @ 9,912'
Arrowset 1X pkr @ 9,919'

Strawn perms (9,969' - 10,121')

50 sx Class H cement plug tagged at 10,492'
CIBP @ 10,910'

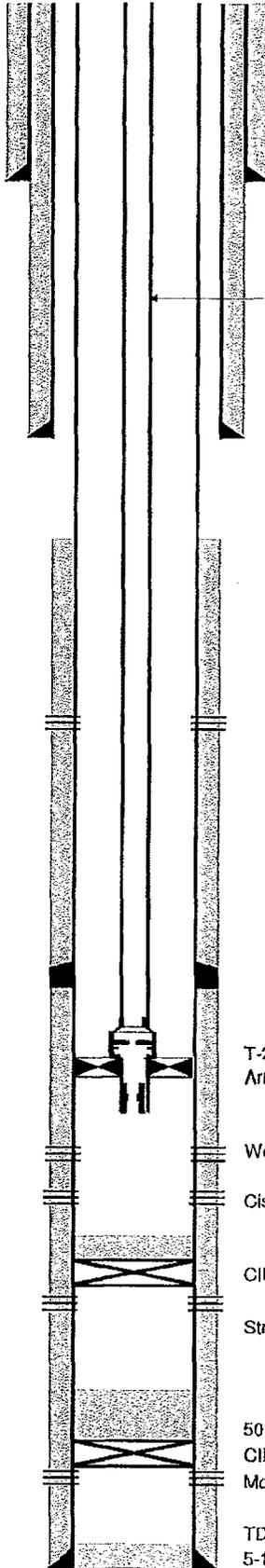
Morrow perms (10996' - 11541')

TD @ 11751'
5-1/2" 17# P-110 @ 11900' cmtd w/ 1175 sx
TD @ 11900'



Proposed WBD
KB - 23' above GL

Cimarex Energy Co. of Colorado
White City Penn 28 Gas Com Unit 3 #4
SHL - 1980' FSL & 1500' FWL
BHL - 690' FSL & 1306' FWL
Sec. 28, T-24-S, R-26-E, Eddy Co., NM
M. Karner 04/5/2016



13-3/8", 54.5# J-55 csg @ 350'
cmtd w/ 350 sx, cmt circ

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

9-5/8", 40# NS-110HC csg @ 1600'
cmtd w/ 700 sx, cmt circ

TOC @ 2750 by CBL-DP Jan 2015

Bone Springs perms (6,622' - 6,883')

DV Tool @ 7083'
cmtd w/ 1550 sx

T-2 on-off Tool w/ 1.875" X Profile nipple @ 8,292'
Arrowset 1X pkr @ 8,299'

Wolfcamp perms (8,349' - 9,680')

Cisco Canyon perms (9,680' - 9,969')

CIBP set at +/- 10,004' with 35' of cement on top

Strawn perms (9,969' - 10,121')

50 sx Class H cement plug tagged at 10,492'
CIBP @ 10,910'

Morrow perms (10996' - 11541')

TD @ 11751'
5-1/2" 17# P-110 @ 11900' cmtd w/ 1175 sx
TD @ 11900'

below your perms



LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy
Attention: Mark Cummings
600 N. Marienfeld, Suite 600
Midland, Texas 79701

Sample: Sta. # 309588185
Identification: Wigeon 23 Fed Com 1
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Date Sampled 7/30/2013 12:25 PM
Analysis Date 7/31/2013
Pressure-PSIA 900
Sample Temp F 107
Atmos Temp F 85
Sampled by: Taylor Ridings
Analysis by: Vicki McDaniel

H2S = 0.3 PPM

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	0.677	
Carbon Dioxide	CO2	0.123	
Methane	C1	82.764	
Ethane	C2	9.506	2.536
Propane	C3	3.772	1.037
I-Butane	IC4	0.640	0.209
N-Butane	NC4	1.185	0.373
I-Pentane	IC5	0.335	0.122
N-Pentane	NC5	0.374	0.135
Hexanes Plus	C6+	<u>0.624</u>	<u>0.270</u>
		100.000	4.681

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1219.2	Calculated	0.6973
At 14.65 WET	1197.9		
At 14.696 DRY	1223.0		
At 14.696 WET	1202.1	Molecular Weight	20.1966
At 14.73 DRY	1225.8		
At 14.73 Wet	1204.6		

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121

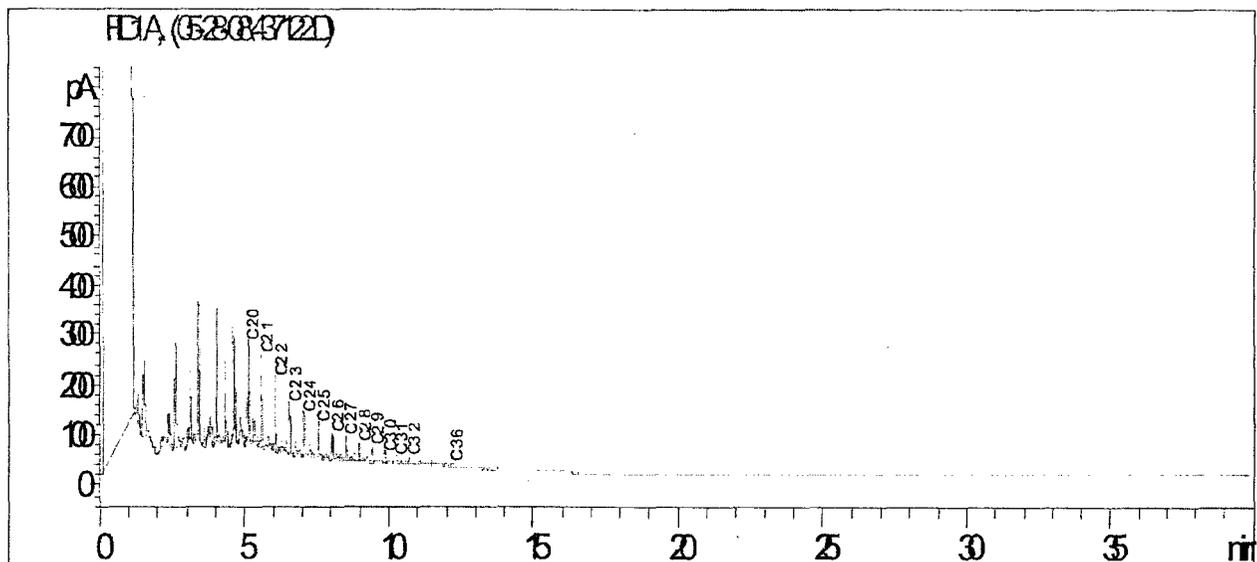
Lab Team Leader - Sheila Hernandez
(432) 495-7240

OIL ANALYSIS

Company:	CIMAREX ENERGY	Sales RDT:	44212
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (575) 910-9389
Area:	CARLSBAD, NM	Analysis ID #:	3208
Lease/Platform:	WIGEON '23' FEDERAL	Sample #:	437122
Entity (or well #):	1	Analyst:	SHEILA HERNANDEZ
Formation:	WOLFCAMP	Analysis Date:	5/30/08
Sample Point:	FRAC TANK 234	Analysis Cost:	\$100.00
Sample Date:	5/13/08		

Cloud Point:	<68 ° F
Weight Percent Paraffin (by GC)*:	1.49%
Weight Percent Asphaltenes:	0.03%
Weight Percent Oily Constituents:	98.41%
Weight Percent Inorganic Solids:	0.07%

*Weight percent paraffin and peak carbon number includes only n-alkanes (straight chain hydrocarbons) greater than or equal to C20H42.



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	CIMAREX ENERGY	Sales RDT:	44212
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (505) 910-9389
Area:	CARLSBAD, NM	Sample #:	43887
Lease/Platform:	WIGEON UNIT	Analysis ID #:	82014
Entity (or well #):	23 FEDERAL 1	Analysis Cost:	\$80.00
Formation:	UNKNOWN		
Sample Point:	SEPARATOR		

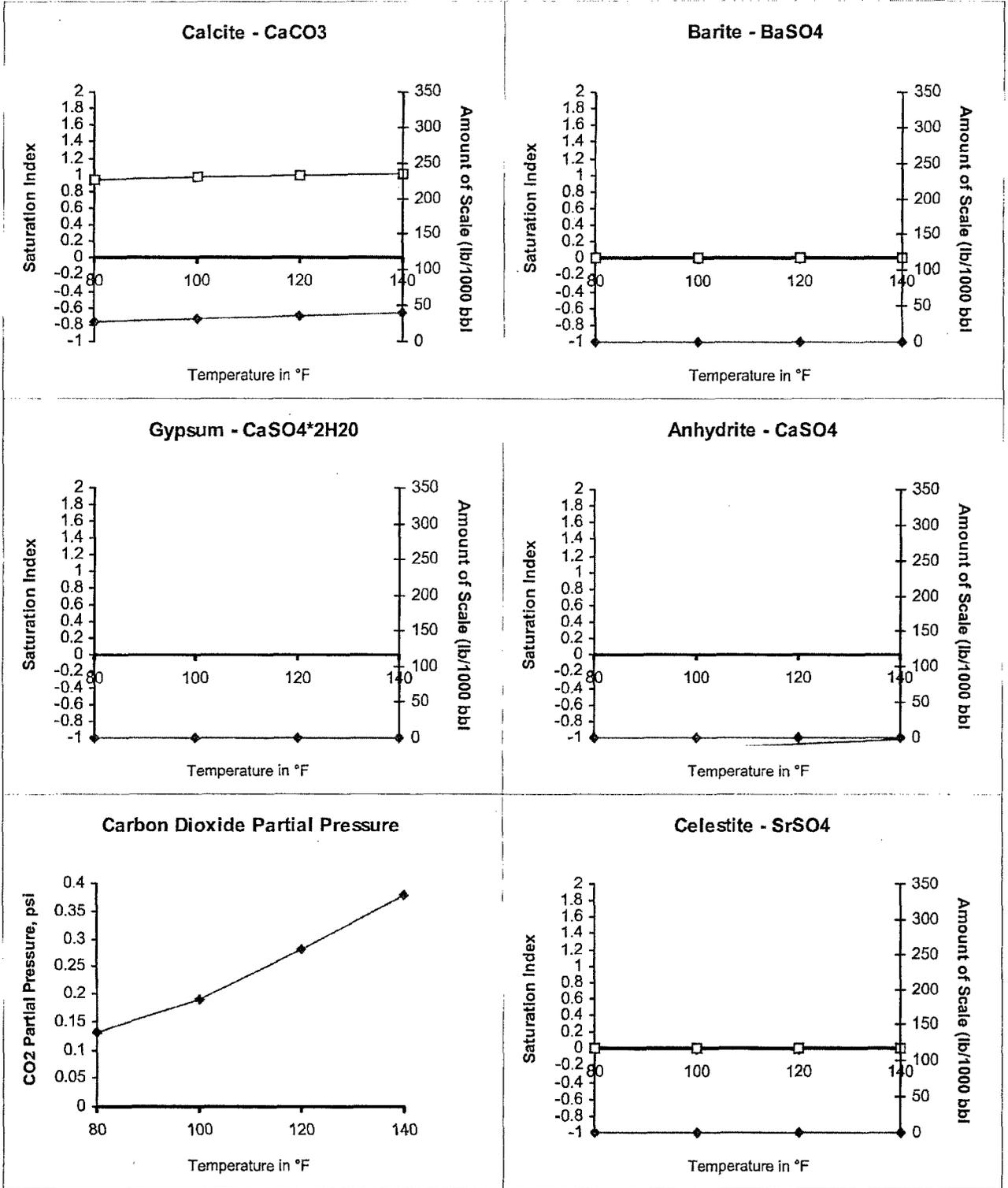
Summary		Analysis of Sample 43887 @ 75 °F					
Sampling Date:	05/14/08	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	05/15/08	Chloride:	55040.0	1552.48	Sodium:	32207.4	1400.94
Analyst:	WAYNE PETERSON	Bicarbonate:	329.4	5.4	Magnesium:	268.0	22.05
TDS (mg/l or g/m3):	90873.3	Carbonate:	0.0	0.	Calcium:	2780.0	138.72
Density (g/cm3, tonne/m3):	1.062	Sulfate:	225.0	4.68	Strontium:		
Anion/Cation Ratio:	1	Phosphate:			Barium:		
		Borate:			Iron:	23.5	0.85
Carbon Dioxide:	150 PPM	Silicate:			Potassium:		
Oxygen:		Hydrogen Sulfide:		0 PPM	Aluminum:		
Comments:		pH at time of sampling:		7.31	Chromium:		
TEST RAN IN THE FIELD		pH at time of analysis:			Copper:		
		pH used in Calculation:		7.31	Lead:		
					Manganese:		
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	0.94	27.24	-1.11	0.00	-1.14	0.00	0.00	0.00	0.00	0.00	0.13
100	0	0.97	31.09	-1.16	0.00	-1.12	0.00	0.00	0.00	0.00	0.00	0.19
120	0	0.99	35.26	-1.20	0.00	-1.08	0.00	0.00	0.00	0.00	0.00	0.28
140	0	1.02	39.74	-1.23	0.00	-1.02	0.00	0.00	0.00	0.00	0.00	0.38

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Scale Predictions from Baker Petrolite

Analysis of Sample 43887 @ 75 °F for CIMAREX ENERGY, 05/15/08





LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy
Attention: Mark Cummings
600 N. Marienfeld, Suite 600
Midland, Texas 79701

Sample: Sta. # 309588438
Identification: Taos Fed. #3 Sales
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Date Sampled 7/2/2014 10:30 AM
Analysis Date 7/9/2014
Pressure-PSIA 83
Sample Temp F 76.4
Atmos Temp F 76

Sampled by: K. Hooten
Analysis by: Vicki McDaniel

H2S =

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	0.618	
Carbon Dioxide	CO2	0.172	
Methane	C1	88.390	
Ethane	C2	7.080	1.889
Propane	C3	1.966	0.540
I-Butane	IC4	0.355	0.116
N-Butane	NC4	0.569	0.179
I-Pentane	IC5	0.198	0.072
N-Pentane	NC5	0.213	0.077
Hexanes Plus	C6+	<u>0.439</u>	<u>0.190</u>
		100.000	3.063

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1136.2	Calculated	0.6445
At 14.65 WET	1116.4		
At 14.696 DRY	1139.7		
At 14.696 WET	1120.3	Molecular Weight	18.6673
At 14.73 DRY	1142.4		
At 14.73 Wet	1122.6		

North Permian Basin Region
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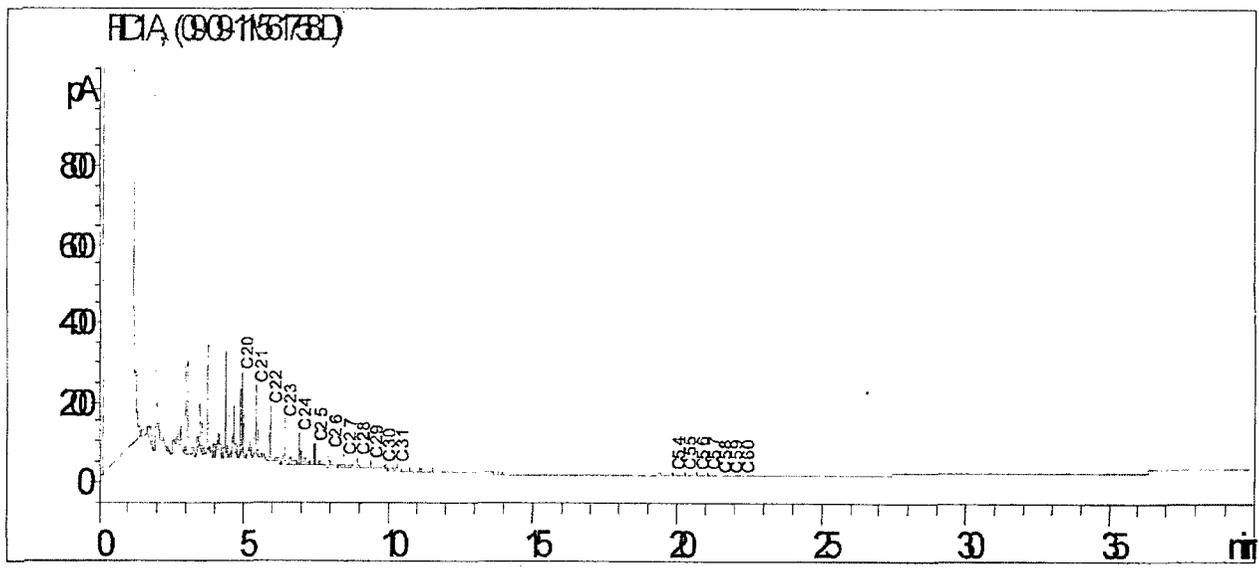
Lab Team Leader - Sheila Hernandez
(432) 495-7240

OIL ANALYSIS

Company:	CIMAREX ENERGY	Sales RDT:	33521
Region:	PERMIAN BASIN	Account Manager:	STEVE HOLLINGER (575) 910-9393
Area:	LOCO HILLS, NM	Analysis ID #:	5419
Lease/Platform:	TAOS FEDERAL LEASE	Sample #:	561758
Entity (or well #):	3	Analyst:	SHEILA HERNANDEZ
Formation:	UNKNOWN	Analysis Date:	09/13/11
Sample Point:	TANK	Analysis Cost:	\$125.00
Sample Date:	08/24/11		

Cloud Point:	89 ° F
Weight Percent Paraffin (by GC)*:	1.03%
Weight Percent Asphaltenes:	0.01%
Weight Percent Oily Constituents:	98.93%
Weight Percent Inorganic Solids:	0.03%

*Weight percent paraffin and peak carbon number includes only n-alkanes (straight chain hydrocarbons) greater than or equal to C20H42.



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
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Water Analysis Report by Baker Petrolite

Company:	CIMAREX ENERGY	Sales RDT:	33521
Region:	PERMIAN BASIN	Account Manager:	STEVE HOLLINGER (575) 910-9393
Area:	CARLSBAD, NM	Sample #:	535681
Lease/Platform:	TAOS FEDERAL LEASE	Analysis ID #:	113272
Entity (or well #):	3	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	SEPARATOR		

Summary		Analysis of Sample 535681 @ 75 F					
Sampling Date:	09/28/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/13/11	Chloride:	52535.0	1481.82	Sodium:	28338.7	1232.66
Analyst:	SANDRA GOMEZ	Bicarbonate:	146.0	2.39	Magnesium:	417.0	34.3
TDS (mg/l or g/m3):	86836.7	Carbonate:	0.0	0.	Calcium:	3573.0	178.29
Density (g/cm3, tonne/m3):	1.063	Sulfate:	83.0	1.73	Strontium:	1472.0	33.6
Anion/Cation Ratio:	1	Phosphate:			Barium:	22.0	0.32
Carbon Dioxide:	150 PPM	Borate:			Iron:	34.0	1.23
Oxygen:		Silicate:			Potassium:	215.0	5.5
Comments:		Hydrogen Sulfide:		0 PPM	Aluminum:		
RESISTIVITY 0.083 OHM-M @ 75F		pH at time of sampling:		6	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		6	Lead:		
					Manganese:	1.000	0.04
					Nickel:		

Conditions Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl												
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	-0.61	0.00	-1.46	0.00	-1.49	0.00	-0.05	0.00	1.22	11.59	1.14
100	0	-0.51	0.00	-1.51	0.00	-1.47	0.00	-0.07	0.00	1.04	10.94	1.44
120	0	-0.40	0.00	-1.54	0.00	-1.43	0.00	-0.07	0.00	0.89	10.30	1.76
140	0	-0.28	0.00	-1.57	0.00	-1.36	0.00	-0.06	0.00	0.75	9.66	2.07

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.



Objective

Cimarex is seeking approval from the U.S. Bureau of Land Management (BLM) of its proposed *commingling permit* application and the *allocation factors* for the Cisco Canyon and Wolfcamp formations in the recompletion of the **White City Penn 28 Gas Com Unit 3 #4** well (API: 30-015-33862).

The proposed “allocation factors” have been estimated following BLM’s approved allocation methodology in the *2016 Downhole Commingling Field Study “Cisco Canyon and Wolfcamp (Ciscamp) Commingled Allocation Assessment in White City, Eddy County, NM”* (NMP0220), approved by BLM on July 6, 2016 (**Appendix A**). Based on this approach and the assessment of subsurface data, the recommended initial allocation factors are **84%** for the Wolfcamp and **16%** for the Cisco Canyon.

The support evidence for this application includes petrophysical assessment and recoverable reserves estimation for each proposed formation (Table 1) and a log section (**Appendix B**).

Proposed Recompletion

Cimarex plans to recomplete the **White City Penn 28 Gas Com Unit 3 #4** well to the Cisco Canyon and the Wolfcamp formations. This well is located within the BLM approved White City Ciscamp Field Study Area (see Exhibit 6A of the above referenced Field Study) and is currently completed in the Bone Spring formation. The well has produced 932 bbls of oil and 34 MMCF of gas (see **Appendix C**). The company plans to temporarily abandon the currently producing Bone Spring perforations with a cement squeeze. The company is considering testing the Strawn formation. If the Strawn is not currently commercially viable when producing alone, the company intends to:

- 1) Temporarily abandon the Strawn
- 2) Recomplete the new proposed Ciscamp formations
- 3) Comingle the Strawn with the Wolfcamp and Cisco Canyon at a later time

In such case, the production allocations factors will be revised and re-submitted for approval following the approved Field Study methodology for “Handling of Existing Rate Contribution from Proven Developed Producing (PDP) Zone(s)”, using Eq.1.1 and Eq. 1.2; and along with the required BLM and NMOCD documentation.

The proposed Ciscamp recompletion will be performed with a *multi-stage frac job*. The plan is to commingle Wolfcamp and Cisco Canyon streams downhole immediately after completion to allow faster flowback recovery and more efficient artificial lift. The synergy between both



streams has shown to significantly improve liquid unloading in analog wells by maintaining higher and more stable critical gas velocities for a longer period. This in turn minimizes formation damage and increases reserves recovery by extending the life of the well.

A proposed recompletion and workover procedure is included in **Appendix D**.

Proposed Initial Production Allocation Factors

Based on BLM’s approved Allocation Methodology and Cimarex’s assessment, the “Initial Allocation Factors” for the New Completion Zones in subject well are estimated as follows:

$$\text{Wolfcamp \% Alloc. Factor} = \frac{\text{WC RGIP} - \text{WC Prev. Cum Gas}}{\text{Total RGIP}}$$

$$\text{Cisco Canyon \% Alloc. Factor} = \frac{\text{CC RGIP} - \text{CC Prev. Cum Gas}}{\text{Total RGIP}}$$

The Recoverable Gas in Place (RGIP) for subject well is **1,499 MMCF** from the Wolfcamp and **292 MMCF** from the Cisco Canyon, for a total of **1,790 MMCF of gas** (see Table 1). In this case, the proposed commingling intervals have never produced in this well (no prior cumulative production), therefore Remaining RGIP (RRGIP) is equal to RGIP for both formations.

The resulting proposed allocation factors are calculated as follows:

$$\text{Wolfcamp \% Alloc. Factor} = \frac{1,499 \text{ MMCF}}{1,790 \text{ MMCF}} = 84\%$$

$$\text{Cisco Canyon \% Alloc. Factor} = \frac{292 \text{ MMCF}}{1,790 \text{ MMCF}} = 16\%$$

The RGIP for each zone is estimated using the Hydrocarbon Pore Volume (HCPV) assessment as shown in Table 1. The implemented net pay cut-offs are Average Porosity (PHI) > 6-10% and Average Sw < 25-45%. *Total estimated oil reserves are 57 MBO.*

White City Penn 28 GCU 3#4

Proposed RC Zone(S)	Avg. Depth, ft	Est. Reservoir Pressure, psi	Net Pay, h (ft)	Avg. PHI	Avg. Sw	HCPV (t-Sw)*PHI*h	OGIP, MMCF	Est. Recovery Factor	RGIP @RF, MMCF	Zone Prod. Start Date	Prev. Cum. Gas to Date, MMCF	Remaining RGIP (RRGIP), MMCF	Initial Alloc. Factors, % (based on RRGIP Ratio)
Wolfcamp Total :	9,116	3,965	204	12.1%	20%	19.9	1,765	85%	1,499			1,499	84%
Cisco Canyon :	9,874	4,295	30	14.8%	15%	3.7	343	85%	292		-	292	16%
Total:			233			23.7	2,108	85%	1,790		-	1,790	100%

Table 1: Summary of Reservoir Properties, Estimated Reserves and Resulting Allocation Factors



CONFIDENTIAL. December 29, 2016
Production Operations – Carlsbad Region, Permian Basin
White City Penn 28 GCU 3 #4 - Cisco Canyon and Wolfcamp
(Ciscamp) Proposed Commingling Allocation Factors. Eddy County, NM

In this well, the spacing for both formations is the same, as well as public interests: 100% working interest and 77.5% net revenue interest. Both formations are sweet.

Enclosed with this report are the C-107A, Downhole Commingle Worksheet, current and proposed wellbore diagrams, current gas, oil, and water analyses C-102, 3160-5.



Appendix A: 2016 Downhole Commingling Field Study for the White City Area



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Pecos District
Carlsbad Field Office
620 E. Greene
Carlsbad, New Mexico 88220-6292
www.blm.gov/nm



3180 (P0220)

July 6, 2016

Reference:
White City Area
2016 Downhole Commingling Field Study
Eddy County, New Mexico

Cimarex Energy Co. of Colorado
600 N. Marienfeld Street, Suite 600
Midland, TX 79701

Gentlemen:

In reference to your 2016 Downhole Commingling Field Study for the White City Area; it is hereby approved, with the following conditions of approval:

1. All future NOI Sundries submitted to request approval to downhole commingle (DHC) the Lower Penn, Upper Penn and the Wolfcamp formation shall reference this Study and be mentioned in Exhibit 6A. A copy of this study does not need to be attached to the Sundry.
2. All future NOI Sundries submitted to request approval to DHC shall reference NMOCD approval order.
3. All future NOI Sundries submitted to request approval to DHC shall include the BLM's DHC worksheet.
4. All DHC approvals are subject to like approval by NMOCD.
5. The BLM may require an updated evaluation of the field study be done in the future.

Please contact Edward G. Fernandez, Petroleum Engineer at 575-234-2220 if you have any questions.

Sincerely,

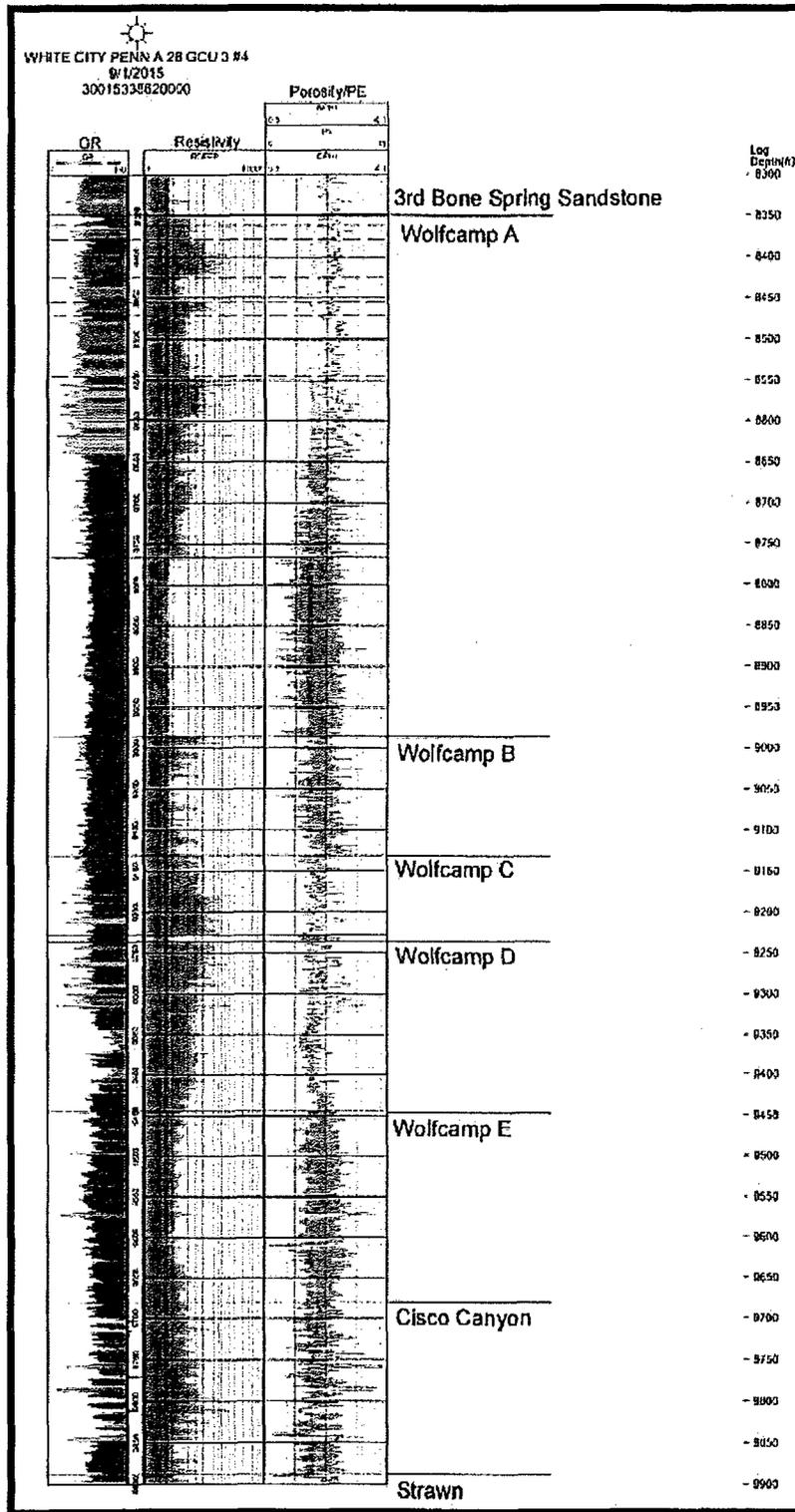
Edward G. Fernandez
for Cody R. Layton
Assistant Field Manager,
Lands and Minerals

Enclosure
cc: NMP0220 (CFO I&E)



CONFIDENTIAL. December 29, 2016
Production Operations – Carlsbad Region, Permian Basin
White City Penn 28 GCU 3 #4 - Cisco Canyon and Wolfcamp
(Ciscamp) Proposed Commingling Allocation Factors. Eddy County, NM

Appendix B: Log section from top of Wolfcamp to top of Strawn – White City Penn 28 GCU 3#4





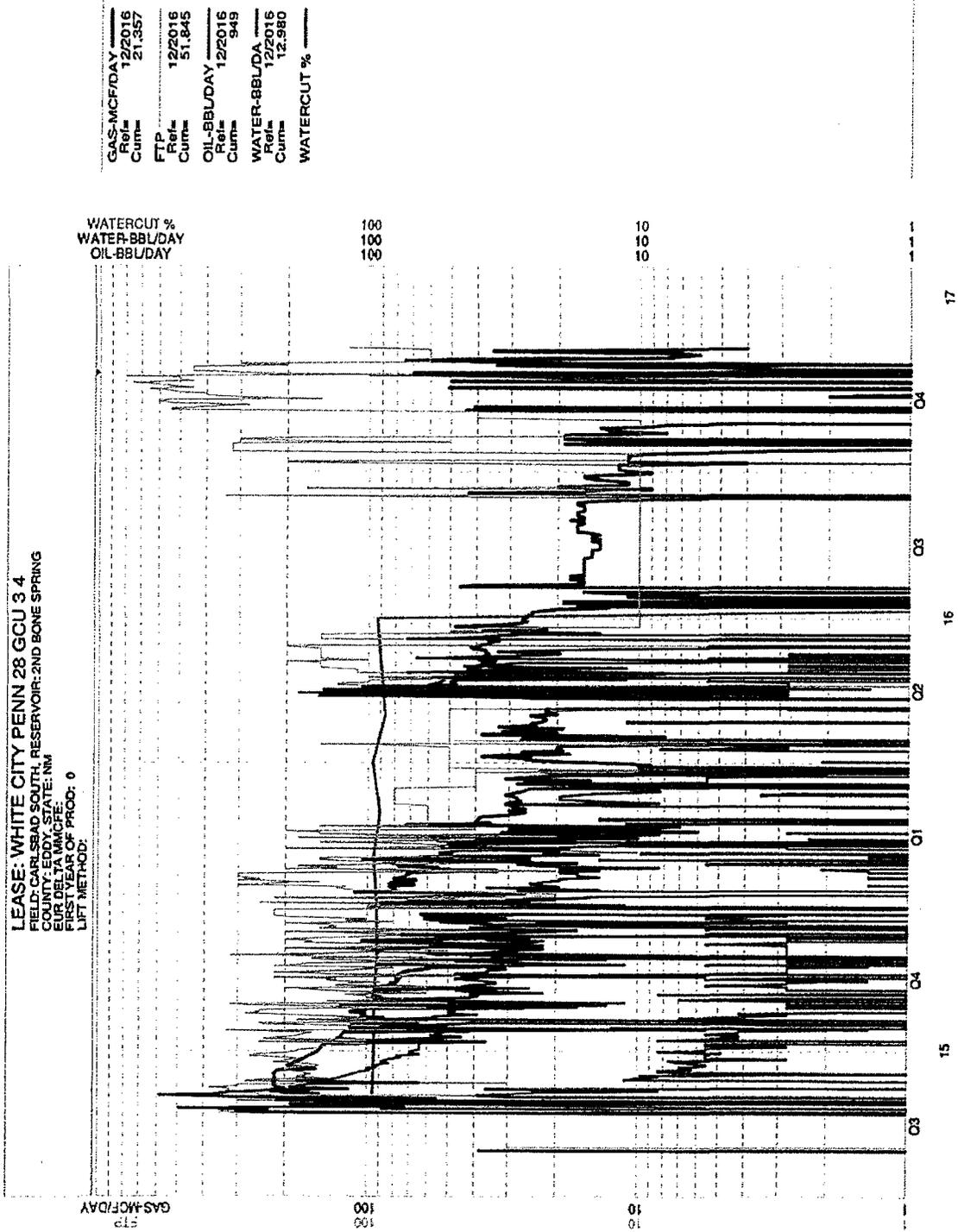
CONFIDENTIAL. December 29, 2016

Production Operations – Carlsbad Region, Permian Basin

White City Penn 28 GCU 3 #4 - Cisco Canyon and Wolfcamp

(Ciscamp) Proposed Commingling Allocation Factors. Eddy County, NM

Appendix C: Current Completion – White City Penn 28 Gas Com Unit 3 #4



**White City Penn 28 Gas Com UTI 4
30-015-33862
Cimarex Energy Company of CO
March 30, 2017
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by June 30, 2017.

- 1. Approved to drill out the DV tool plug and the Wolfcamp plug.**
- 2. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
- 3. A minimum of a 5000 (5M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**

If the Strawn is found uneconomic continue with plug back as follows:

- 4. Operator shall set a CIBP at 9,919' (50' above top most perf) and 35' Class H cement on top to isolate the Strawn Formation**
- 5. DHC approved as written by the operator.**

NOTE: The Bone Spring production shall remain completely separate from the Strawn (if successful) and the Cisco Canyon and Wolfcamp production.

- 6. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
- 7. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**

8. Surface disturbance beyond the originally approved pad must have prior approval.
9. Closed loop system required.
10. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
11. Operator to have H2S monitoring equipment on location.
12. A minimum of a **5000 (5M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
13. **Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**
14. **See attached for general requirements.**

JAM 033017

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Production Zone Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.