DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
4/05/2016		MAM	4/04/2016	DHC	DMAM1609746434

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

DHC-4741

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

Cimarex Energy Co of Colorado- 162683
Well: Glenwood 28 Federal 1 30-015-35735

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

Pools:
WC; High Lonesome Atoka, SW (G) # 97692

Henshaw; Morrow SW (G) #97149

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Aricka Easterling	Aricka Easterling	Regulatory Analyst	3/30/16
Print or Type Name	Signature	Title	Date

aeasterling@cimarex.com
e-mail Address

Cimarex Energy Co.
202 S Cheyenne Ave
Suite 1000
Tulsa, Oklahoma 74103-4346
Phone 918.585.1100
Fax 918.749.8059

CIMAREX

March 30, 2016

New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Glenwood 28 Federal 1
28-16S-29E
30-015-35735
C-107-An Atoka and Morrow Well

Sir or Madam,

Enclosed is an original form C-107A (Application for Downhole Commingling) for the well mentioned above.
The well was drilled to the Morrow formation tested and plugged back to the Atoka. A CIBP is set at 10,222' to abandon the Morrow. Currently the well is producing from the Atoka formation. Cimarex proposes to down hole commingle the well by drilling out the CIBP.

Royalty, overriding, and working interest owner are the same in each zone.

If you have any questions or need further information, please contact me at 918-506-7060

Sincerely,

Aricka Easterling
Regulatory Analyst

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-35735	97692	WC; High Lonesome; Atoka SW (G)

Property Code	Property Name	Well Number
	GLENWOOD "28" FEDERAL	1

OGRID No.	Operator Name	Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	3645'

Surface Location

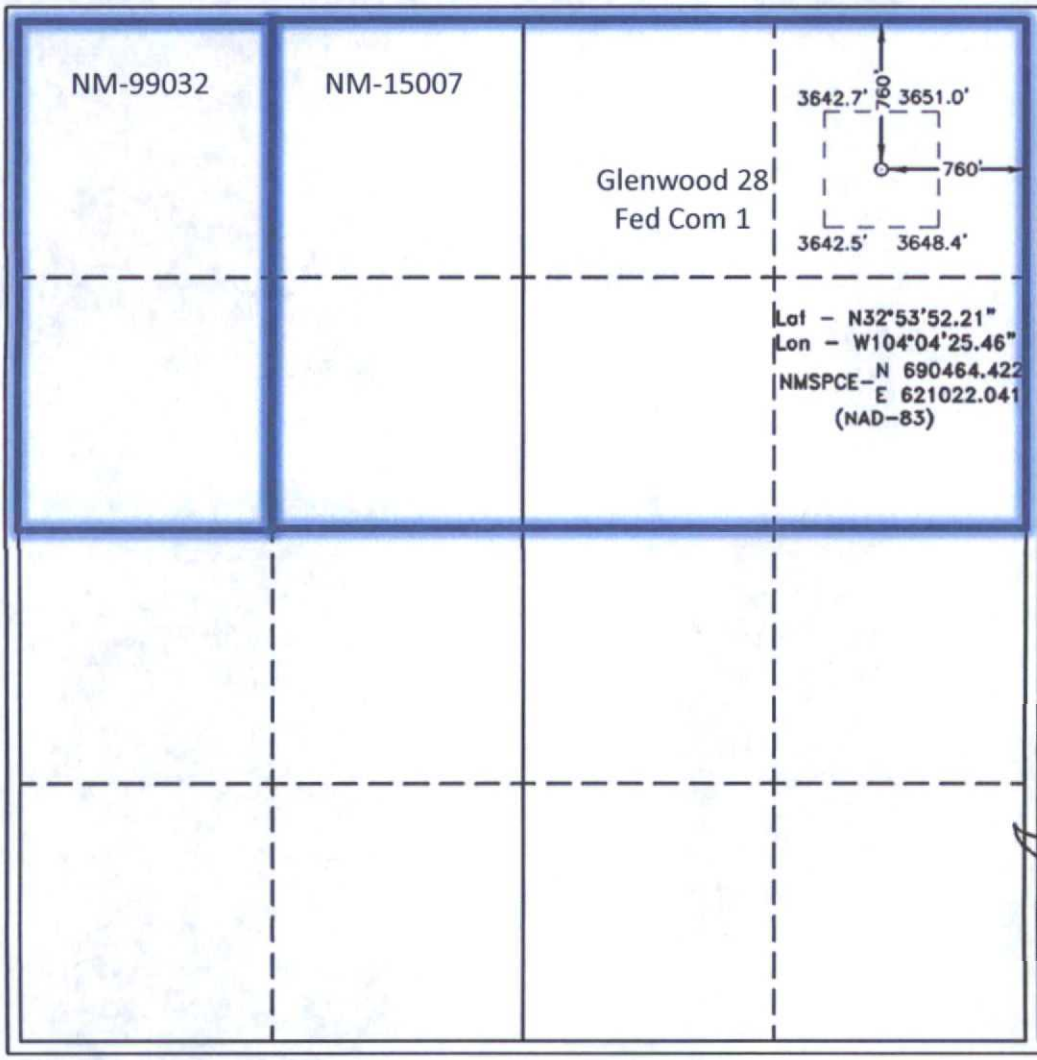
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	16 S	29 E		760	NORTH	760	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320		P	

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



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 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 3/30/07

Aricka Easterling
Printed Name

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 supervison, and that the same is true and correct to the best of my belief.

JUNE 15, 2007
Date Surveyed

Signature & Seal of Professional Surveyor

NEW MEXICO
7977
GARY L. JONES

NM PLS No. 18234

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-35735	97149	Henshaw; Morrow SW (G)

Property Code	Property Name	Well Number
36648	GLENWOOD "28" FEDERAL	1

OGRID No.	Operator Name	Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	3645'

Surface Location

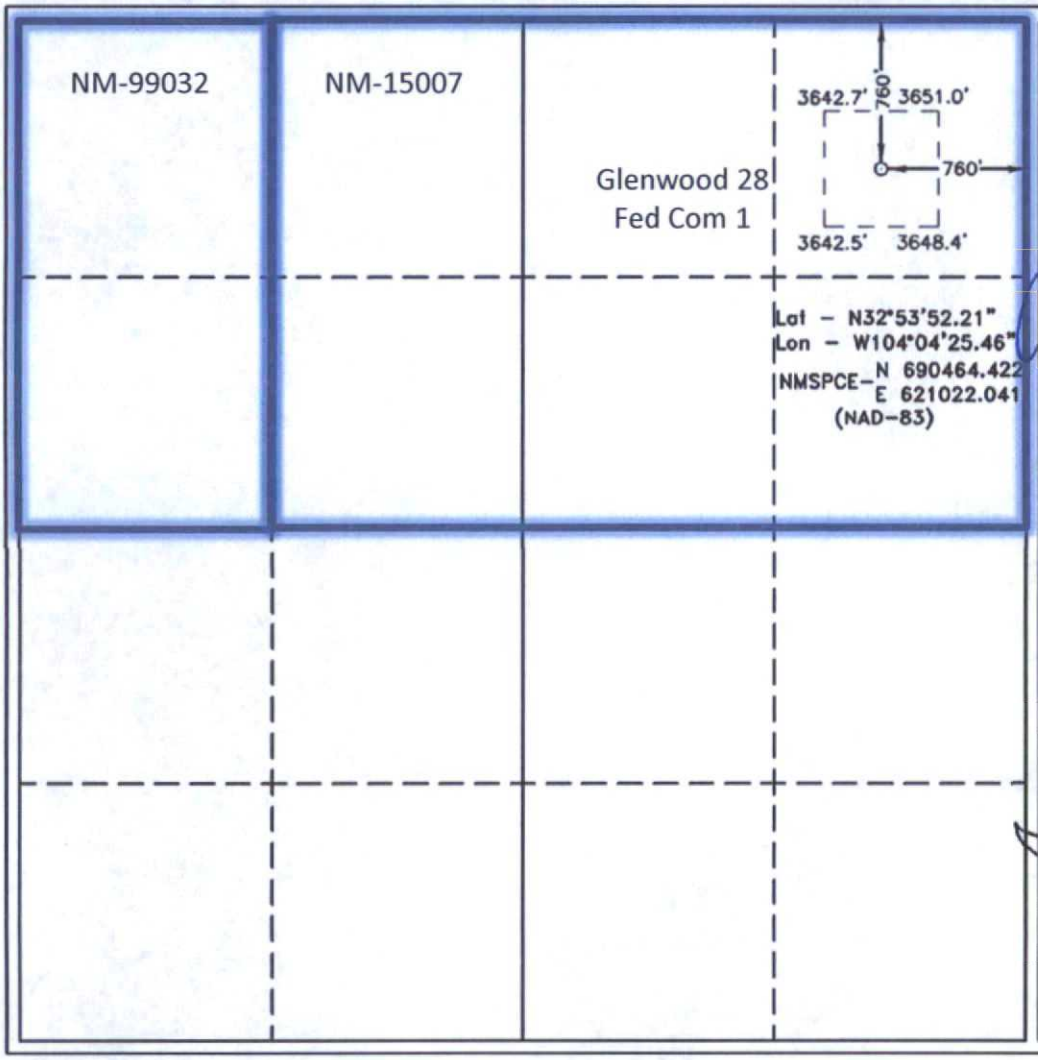
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	16 S	29 E		760	NORTH	760	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320		P	

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



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 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 3/30/07

Aricka Easterling
Printed Name

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 supervison, and that the same is true and correct to the best of my belief.

JUNE 15, 2007
Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES — NEW MEXICO — 7977 — REGISTERED PROFESSIONAL SURVEYOR

W.O. No. 18234

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

Cimarex Energy Co.
600 N. Marienfeld St.
Suite 600
Midland, TX 79701
MAIN 432.571.7800

March 23, 2016

Mr. Michael A. McMillan
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Ownership Verification
Glennwood 28 Fed Com 1H
API No. 30-015-35735
760' FNL x 760' FEL
Sec. 28-T16S-R29E
Eddy County, New Mexico

Dear Mr. McMillan:

Per the review of our records, it has been determined that there is common ownership for the Atoka and Morrow zones. Please feel free to contact me if there are any questions.

Sincerely,

Mark Compton
Landman
432-571-7896
mcompton@cimarex.com

LABORATORY SERVICES
Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For:	Cimarex Energy	Sample:	Sta. # Glen28Fed
	Attention: Mark Cummings	Identification:	Glenwood 28 Fed. 1
	600 N. Marienfeld, Suite 600	Company:	Cimarex Energy
	Midland, Texas 79701	Lease:	
		Plant:	

Sample Data:	Date Sampled	1/28/2015	9:55 AM		
	Analysis Date	1/29/2015			
	Pressure-PSIA	204		Sampled by:	J. Jiron
	Sample Temp F	71		Analysis by:	Vicki McDaniel
	Atmos Temp F	55			

H2S = 0.2 PPM

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	1.411	
Carbon Dioxide	CO2	0.139	
Methane	C1	86.421	
Ethane	C2	7.592	2.025
Propane	C3	2.744	0.754
I-Butane	IC4	0.341	0.111
N-Butane	NC4	0.605	0.190
I-Pentane	IC5	0.168	0.061
N-Pentane	NC5	0.143	0.052
Hexanes Plus	C6+	0.436	0.189
		100.000	3.382

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1141.6	Calculated	0.6558
At 14.65 WET	1121.7		
At 14.696 DRY	1145.1		
At 14.696 WET	1125.6	Molecular Weight	18.9939
At 14.73 DRY	1147.8		
At 14.73 Wet	1128.0		

Test Method GPA 2261-95

Calculations based on GPA 2145-09

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: Identification: Company: Lease: Plant:	Sta. #SHFTGSNDS Shifting Sands #1 Cimarex Energy
Sample Data:	Date Sampled	5/22/2012		
	Analysis Date	5/25/2012		
	Pressure-PSIA	47	Sampled by:	K. Hooten/Gas Meas.
	Sample Temp F	76.4	Analysis by:	Dustin Armstrong
	Atmos Temp F	81		

H2S =

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	2.102	
Carbon Dioxide	CO2	0.244	
Methane	C1	72.100	
Ethane	C2	12.629	3.369
Propane	C3	7.521	2.067
I-Butane	IC4	1.084	0.354
N-Butane	NC4	2.253	0.708
I-Pentane	IC5	0.547	0.200
N-Pentane	NC5	0.507	0.183
Hexanes Plus	C6+	1.013	0.438
		100.000	7.319

REAL BTU/CU.FT.	
At 14.65 DRY	1345.5
At 14.65 WET	1322.0
At 14.696 DRY	1349.7
At 14.696 WET	1326.7
At 14.73 DRY	1352.8
At 14.73 Wet	1329.5

Specific Gravity	
Calculated	0.7948
Molecular Weight	23.0207

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: Identification: Company: Lease: Plant:	Sta. # Glen 28 Fed Glenwood 28 Fed. # 1 Cimarex Energy

Sample Data:	Date Sampled	7/10/2013		
	Analysis Date	7/12/2013		
	Pressure-PSIA	580	Sampled by:	J. Stevens/Gas Meas
	Sample Temp F	93	Analysis by:	Vicki McDaniel
	Atmos Temp F	93		

H2S = 1 PPM

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	1.475	
Carbon Dioxide	CO2	0.165	
Methane	C1	86.627	
Ethane	C2	7.388	1.971
Propane	C3	2.577	0.708
I-Butane	IC4	0.314	0.102
N-Butane	NC4	0.607	0.191
I-Pentane	IC5	0.192	0.070
N-Pentane	NC5	0.155	0.056
Hexanes Plus	C6+	0.500	0.216
		100.000	3.315

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1139.8	Calculated	0.6558
At 14.65 WET	1119.9		
At 14.696 DRY	1143.3		
At 14.696 WET	1123.8	Molecular Weight	18.9924
At 14.73 DRY	1145.9		
At 14.73 Wet	1126.1		

Laboratory Services, Inc.
2609 W. Marland
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

SULFUR IN CRUDE OIL

Cimarex Energy
Attention: Manuel Cabezuela
P.O. Box 1237
Eunice, New Mexico 88231

Nov 16, 2007

	Total Sulfur	API Gravity @ 60° F	Specific Gravity @ 60° F
Glenwood 28 Fed. #1	0.0533 wt. %	53.2	0.7661

Thank You,

Vickie Sullivan

Laboratory Services, Inc.
2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Cimarex Energy
Attention: Manuel Cabezuela
P.O. Box 1237
Eunice, New Mexico 88231

SAMPLE: Morrow Formation
IDENTIFICATION Glenwood 28 Fed. #1
COMPANY: Cimarex Energy
LEASE:
PLANT:

SAMPLE DATA:
DATE SAMPLED 11/15/07 11:30am
ANALYSIS DATE: 11/16/07
PRESSURE – PSIG 82
SAMPLE TEMP. °F
ATMOS. TEMP. °F 51

GAS (XX) LIQUID ( )
SAMPLED BY: Vickie Sullivan
ANALYSIS BY: Vickie Sullivan

REMARKS: H2S = 0.4 PPM

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	1.025	
Carbon Dioxide	(CO2)	0.246	
Methane	(C1)	83.180	
Ethane	(C2)	7.915	2.112
Propane	(C3)	3.766	1.035
I-Butane	(IC4)	0.533	0.174
N-Butane	(NC4)	1.261	0.397
I-Pentane	(IC5)	0.455	0.166
N-Pentane	(NC5)	0.522	0.189
Hexane Plus	(C6+)	1.097	0.476
		100.000	4.549

BTU/CU.FT. – DRY	1225
AT 14.650 DRY	1221
AT 14.650 WET	1200
AT 14.73 DRY	1228
AT 14.73 WET	1206

MOLECULAR WT. 20.5405

SPECIFIC GRAVITY –
CALCULATED 0.707
MEASURED

Laboratory Services, Inc.
2609 W. Marland
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

SULFUR IN CRUDE OIL

Cimarex Energy
Attention: Manuel Cabezuela
P.O. Box 1237
Eunice, New Mexico 88231

Aug 6, 2008

	Total Sulfur	API Gravity @ 60° F	Specific Gravity @ 60° F
Glenwood 28 #4	*0.0396 wt.%*	*46.0*	0.7971
Juno 27 Fed. Com. #2	0.0197 wt.%	54.0	0.7628

Thank You,

Vicki McDaniel

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 (575) 910-9389
Area:	CARLSBAD, NM	Sample #:	434992
Lease/Platform:	GLENWOOD '28' FEDERAL	Analysis ID #:	85162
Entity (or well #):	1	Analysis Cost:	$80.00
Formation:	STRAWN		
Sample Point:	WATER TANK		

Summary	
Sampling Date:	08/29/08
Analysis Date:	09/10/08
Analyst:	LISA HAMILTON
TDS (mg/l or g/m3):	25215.6
Density (g/cm3, tonne/m3):	1.016
Anion/Cation Ratio:	1.0000000
Carbon Dioxide:	40 PPM
Oxygen:	0 PPM
Comments:	

Analysis of Sample 434992 @ 75 °F

Anions	mg/l	meq/l	Cations	mg/l	meq/l
Chloride:	**13080.0**	**368.94**	**Sodium:**	**4720.9**	**205.35**
Bicarbonate:	**219.6**	**3.6**	**Magnesium:**	**68.0**	**5.59**
Carbonate:	**0.0**	**0.**	**Calcium:**	**350.0**	**17.47**
Sulfate:	**630.0**	**13.12**	**Strontium:**	**18.0**	**0.41**
Phosphate:			**Barium:**	**0.3**	**0.**
Borate:			**Iron:**	**8.0**	**0.29**
Silicate:			Potassium:	6120.0	156.51
			Aluminum:		
Hydrogen Sulfide:		0 PPM	Chromium:		
pH at time of sampling:		7.24	Copper:		
pH at time of analysis:			Lead:		
pH used in Calculation:		**7.24**	Manganese:	0.800	0.03
			Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite $CaCO_3$		Gypsum $CaSO_4*2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
140	0	0.35	8.55	-1.05	0.00	-0.87	0.00	-0.49	0.00	0.40	0.00	0.29
160	0	0.47	12.65	-1.04	0.00	-0.76	0.00	-0.46	0.00	0.30	0.00	0.36
180	0	0.59	16.75	-1.03	0.00	-0.64	0.00	-0.43	0.00	0.23	0.00	0.45
200	0	0.70	21.53	-1.02	0.00	-0.51	0.00	-0.39	0.00	0.17	0.00	0.54

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

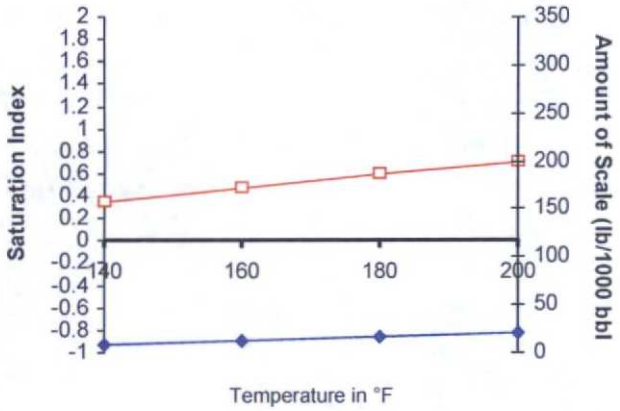
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

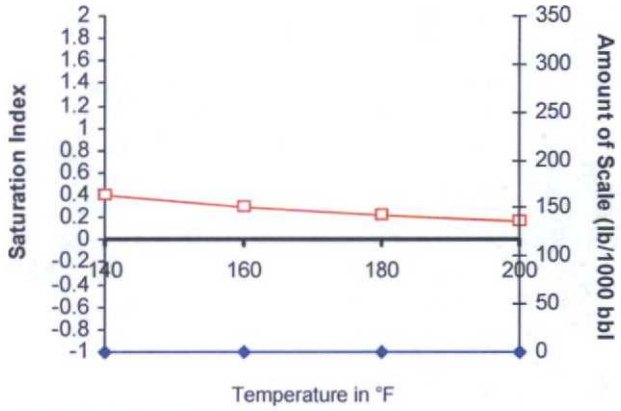
Scale Predictions from Baker Petrolite

Analysis of Sample 434992 @ 75 °F for CIMAREX ENERGY, 09/10/08

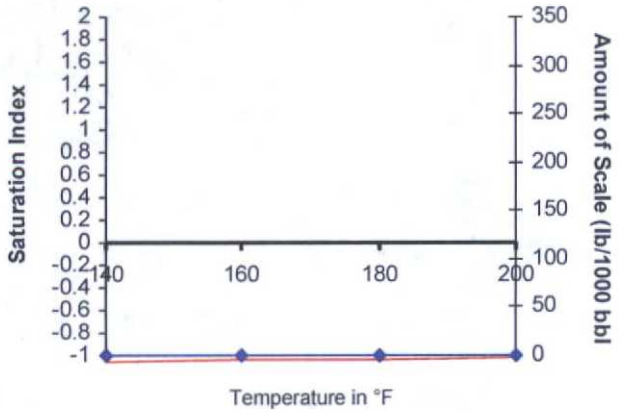
Calcite - CaCO3



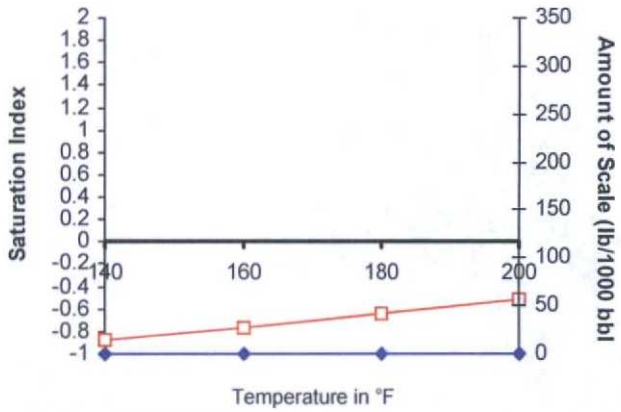
Barite - BaSO4



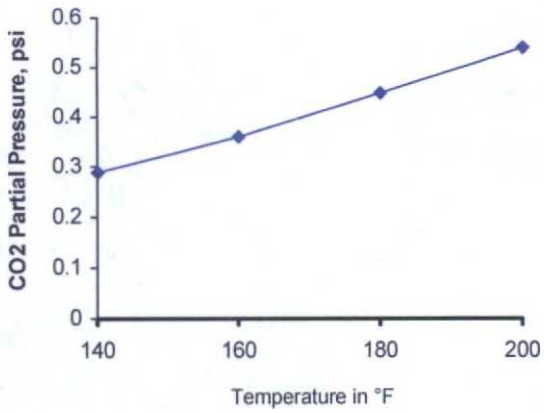
Gypsum - CaSO4*2H20



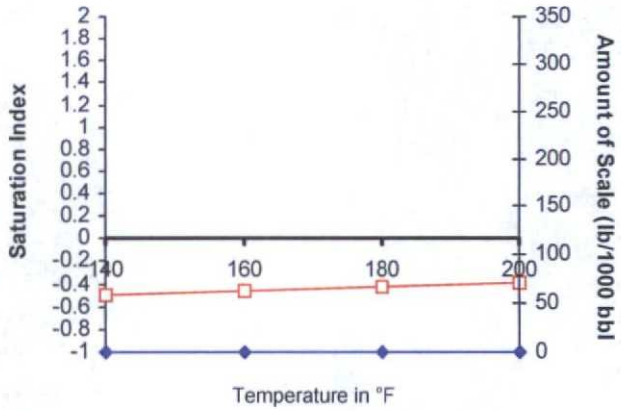
Anhydrite - CaSO4



Carbon Dioxide Partial Pressure



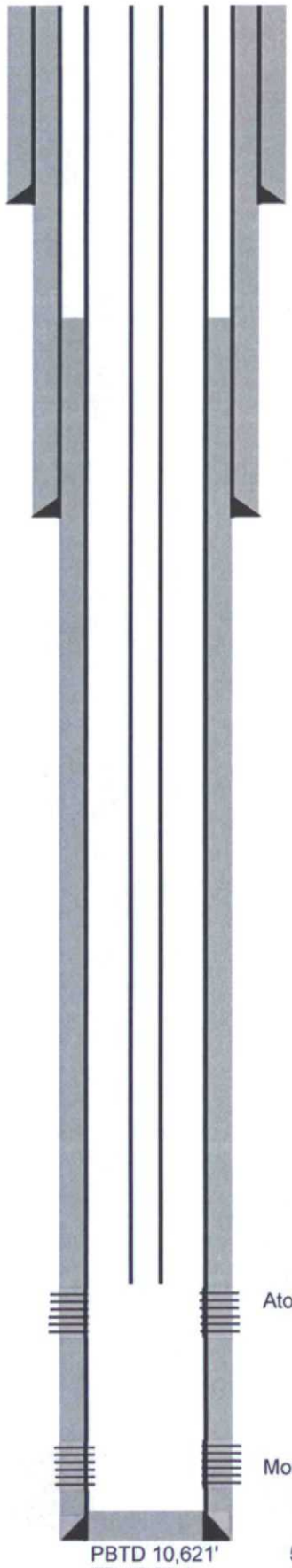
Celestite - SrSO4



CIMAREX

Proposed

Cimarex Energy Co. of Colorado
Glenwood 28 Federal Com #1
API 30-015-35735
Sec 28 T16S R29E 760' FNL & 760' FEL
D. Pearson 2/23/2016



13-3/8" 48# H-40 @ 355' 530 sx cmt
circl'd cmt to surface

TOC @ 980' (CBL)

8 5/8" 24# J-55 @ 2,660' w/831 sx cmt
circl'd cmt to surface

Atoka 10,067'-10,082' (91 holes)

Morrow 10,354'-10,382' (110 holes)

PBTD 10,621'
TD 10,621'

5-1/2" 17# P-110 @ 10,621 w/ 1,425 sx cmt

Printed 3/9/2016

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico.
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
_X_ Single Well
___ Establish Pre-Approved Pools
EXISTING WELLBORE
_X_ Yes ___ No

APPLICATION FOR DOWNHOLE COMMINGLING

Cimarex Energy Co. Of Colorado (Operator) 600 N. Marienfeld St., Suite 600, Midland, TX 79701 (Address)

Glenwood 28 Federal Com (Lease) 1 (Well No.) A-28-16S-29E (Unit Letter-Section-Township-Range) Eddy (County)

OGRID No. 162683 Property Code 35326 API No. 30-015-35735 Lease Type: X Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	High Lonesome; Atoka SW (G)		Henshaw; Morrow SW (G)
Pool Code	97692		97149
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10,067'-10,082'		10,354'-10,382'
Method of Production (Flowing or Artificial Lift)	Flowing		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Within 150% of bottom perfs		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	53.2, 99.3		
Producing, Shut-In or New Zone	Producing		Shut in
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 2-24-16 Rates: .3 BOPD/550 MCFD/ 0 BWPD	Date: Rates:	Date: 11-9-2007 Rates: 0 BOPD/1545 MCFPD/0 BWPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 100 % Gas 36 %	Oil % Gas %	Oil 0 % Gas 64 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes___X___ No_____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes_____ No_____

Are all produced fluids from all commingled zones compatible with each other? Yes___X___No_____

Will commingling decrease the value of production? Yes_____ No__X___

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes__X___No_____

NMOCD Reference Case No. applicable to this well: _____

Attachments:
C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data.
Data to support allocation method or formula.
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Aricka Easterling TITLE Regulatory Analyst DATE 3/30/16

TYPE OR PRINT NAME Aricka Easterling TELEPHONE NO. (_918___) 560-7060

E-MAIL ADDRESS aeasterling@cimarex.com

McMillan, Michael, EMNRD

From: Dean Pearson <dpearson@cimarex.com>
Sent: Friday, April 08, 2016 7:17 AM
To: Terri Stathem; McMillan, Michael, EMNRD
Subject: RE: Glenwood 28 Federal Well No. 1 DHC application

Hi Michael,

I am the production engineer over the field concerning this DHC application for the Glenwood 28 Federal Well No. 1. After the well was drilled into the Morrow formation and completed, gas was flowed from the Morrow zone for a few days for testing purposes but none of it was sold. This is an area where both the Atoka and Morrow zones are good producers so I am not surprised they had the intention to test both zones. My feeling is that after they set the bridge plug over the Morrow perforations and completed the Atoka, they had an even better zone in the Atoka and wanted to flow it by itself for a while. I simply believe the Morrow zone below the plug was simply forgotten about over time. Having identified the plug being there with good rates shown out of the Morrow being plugged back, we would like to get it back. The allocation percentages are based off of the flowrates seen out of the Morrow zone before a plug was set. Atoka percentages are just based off existing rates. Thanks! Let me know of any further questions.

Dean Pearson
Production Engineer - Hobbs Region
Cimarex Energy Co.
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Direct: 432-620-1920
Cell: 832-515-9229
Email: dpearson@cimarex.com

-----Original Message-----
From: Terri Stathem
Sent: Friday, April 08, 2016 8:07 AM
To: Dean Pearson <dpearson@cimarex.com>
Subject: FW: Glenwood 28 Federal Well No. 1 DHC application

Terri Stathem
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