	Form 3160-5 (August 2007)	DE	FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010									
	т а .	SUNDRY Do not use thi	5. Lease Serial No. NMNM15007									
		abandoned wel	6. If Indian, Allottee c	or Tribe Name								
		SUBMIT IN TRI	PLICATE - Other instruc	tions on reverse side	•	7. If Unit or CA/Agre	ement, Name and/or No.					
	1. Type of Well 🔀 Oil Well	🗂 Gas Well 🔲 Oth	ıer			8. Well Name and No. GLENWOOD 28	FEDERAL COM 1					
	2. Name of Opera CIMAREX E	tor NERGY COMPAN	Contact: NY E-Mail: aeasterling	ARICKA EASTERLING @cimarex.com	6	9. API Well No. 30-015-35735						
	3a. Address 202 S. CHE TULSA, OK	YENNE AVE, SUI 74103	TE 1000	3b. Phone No. (include an Ph: 918-560-7060	ea code)	10. Field and Pool, or HENSHAW	Exploratory					
	4. Location of We	ell (Footage, Sec., T	., R., M., or Survey Description,)		11. County or Parish,	and State					
	Sec 28 T16N	N R29E NENE 760	OFNL 760FEL			EDDY COUNT	Y, NM					
	1	12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA										
	TYPE OF S	UBMISSION		T	YPE OF ACTIO	N						
	Notice of I	ntent	🗖 Acidize	Deepen	Proc	luction (Start/Resume)	□ Water Shut-Off					
	☐ Subsequen		Alter Casing	Fracture Treat	-	lamation	□ Well Integrity					
•		-	Casing Repair	\square Plug and Abandon \square		omplete	Subsurface Commingli					
	📋 Final Adam	donment Notice	Change Plans			porarily Abandon er Disposal	ng					
	10,222? to a proposes to Royalty, ove	bandon the Morro down hole commi rriding, and worki attached documer	rrow formation tested and ow. Currently the well is p ingle the well by drilling ou ng interest owner are the ntation.	roducing from the Atok ut the CIBP. same in each zone.	a formation. Cir		MAY 03 20.00 REGERVEL					
				nd informatio	~							
	, i	y that the foregoing is Typed) ARICKA E	# Electronic Submission For CIMAREX Committed to AFMSS fo	ENERGY COMPANY, se r processing py PRISCII	nt to the Carlsba	ad)4/13/2016 ()	-					
	Signature	(Electronic S										
	· · ·	Signature (Electronic Submission) Date 03/31/2016 THIS SPACE FOR FEDERAL OR STATE OFFICE USE										
	Approved By	final the	Denail_	Title	Straloun	Engineer	Date 4/25/2014					
	certify that the appli	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. Secti States any false, fi	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.										
		** OPERAT	FOR-SUBMITTED ** O	PERATOR-SUBMIT	TED ** OPER	ATOR-SUBMITTED	**					
	•											
	·					Accepted for recon	d - NMOCD 💋					

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Downhole Commingling Worksheet

Operator: Cimarex Energy Co.					l
Lease/Well Name/API Number/Location	<u>NMNM015007 / G</u>	lenwood 28 Fed C	om 1/ 30-015-357	35 / Sec. 28-16S-29E	J
Date: 3/30/16	1			1	
			1		
				Cationshad Compliand	
Da ta	Bottom Formation	Middle Formation	Upper Formation	Estimated Combined Production Data	
Poplname	Henshaw; Morrow SW (G)				
PoplCade	97149		High Lonesome; Atoka SW (G) 97692		
State Form C-102 with dedicated Acres			3W (0) 57032		
Provided	Yes		Yes		İ.
Formation Name	Morrow		Atoka	Morrow & Atoka	Ĺ
Top and Bottom of Pay Section		<u> </u>		Morrow & Atoka	
(Perforated or oper-Hole Interval)	10354'-10382		10067'-10082	10067-10382	
Method of production	Flowing		Flowing	Flowing	
Bottom Hole Pressure	N/A		N/A	N/A	
Reservoir Drive mechanism					
Oil gravity and/or BTU	Oil Gravity: 46 Gas Gravity- 0.707 Gas BTU 1.228 (Dry)	Oil Gravity: 53.2 Gas Gr Gas BTU 1.145 (Dry)	ravity- 0.6558	☆Oil Gravity: 49.6 Gas Gravit Gas BTU 1.186 (Dry)	- 0.
Average Sulfur Content (Wt %)	0		0	* 0	
Oil sample Analysis provided	No production		Yes		ĺ
Gas Analysis provided	Yes		Yes	-	ĺ
Produce Water Analysis provided	Yes		Yes		İ.
H2S present	No		No	* No	
Producing, Shut-In or New Zone	Shut in		Producing	N/A	1
Date and Oil/Gas/Water rates of Last Production (new zones or no production history Operator shall attacked production estimated and supporting data)	11-9-2007 0 BOPD 1545 MCFD 0 BWPD	.3 BO	MCFD	Estimated Rates .3 BOPD 2095 MCFD 0 BWPD	
Average de cline 55 (provide text op deta) Fixed Allocation Percentage	Decline: 25,1% per year Allocation: Oli - 0% Gas -64%	Decline: 35.9% per year Allocation: Oil - 10		Decline: 25,1% per year based on offset well	

Remarks: Ka Castely Operator Signature: Date: 6 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.

DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT CASE RECORDATION** (MASS) Serial Register Page

. 01 02-25-1920;041STAT0437;30USC181ETSEQ Case Type 311211: O&G LSE SIMO PUBLIC LAND Commodity 459: OIL & GAS Case Disposition: AUTHORIZED

Name & Address

Serial Number: NMNM 015007
Int Rel

PO BOX 7500	BARTLESVILLE OK 740057500	LESSEE	100.000000000
PO BOX W	ARTESIA NM 88211	OPERATING RIGHTS	0.000000000
PO BOX 1567	HOPE NM 882501567	OPERATING RIGHTS	0.000000000
#26 CHALK BLUFF RD	ARTESIA NM 88210	OPERATING RIGHTS	0.000000000
600 N MARIENFELD ST STE 600	MIDLAND TX 797014405	OPERATING RIGHTS	0.000000000
202 S CHEYENNE AVE STE 1000	TULSA OK 741033001	OPERATING RIGHTS	0.000000000
	PO BOX W PO BOX 1567 #26 CHALK BLUFF RD 600 N MARIENFELD ST STE 600	PO BOX W ARTESIA NM 88211 PO BOX 1567 HOPE NM 882501567 #26 CHALK BLUFF RD ARTESIA NM 88210 600 N MARIENFELD ST STE 600 MIDLAND TX 797014405	PO BOX WARTESIA NM 88211OPERATING RIGHTSPO BOX 1567HOPE NM 882501567OPERATING RIGHTS#26 CHALK BLUFF RDARTESIA NM 88210OPERATING RIGHTS600 N MARIENFELD ST STE 600MIDLAND TX 797014405OPERATING RIGHTS

Mer Twp Rng Sec	STyp	SNr Suff Subdivision	District/Field Office	County	Mgmt Agency
23 01605 0290E 010	ALIQ	NE,N2SE;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23 01605 0290E 021	ALIQ	SE;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23 01605 0290E 028	ALIQ	E2,E2W2,SWSW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT



Act Date	Code	Action	Action Remark	Pending Office
11/21/1971	387	CASE ESTABLISHED	SPAR48;	
11/22/1971	888	DRAWING HELD		
02/02/1972	237	LEASE ISSUED		
03/01/1972	496	FUND CODE	05;145003	· · ·
03/01/1972	530	RLTY RATE - 12 1/2%		
03/01/1972	868	EFFECTIVE DATE		
03/27/1972	140	ASGN FILED	M BROWN/CONOCO INC	
04/04/1972	139	ASGN APPROVED	EFF 04/01/72;	
04/04/1979	315	RENTAL RATE DET/ADJ	\$2.00;	
10/24/1979	940	NAME CHANGE RECOGNIZED	CONTL OIL/CONOCO INC	
04/20/1981	650	HELD BY PROD - ACTUAL		
11/24/1981	102	NOTICE SENT-PROD STATUS		
10/25/1983	932	TRF OPER RGTS FILED	(1)	
10/25/1983	932	TRF OPER RGTS FILED	(2)	
10/25/1983	932	TRF OPER RGTS FILED	(3)	
12/01/1983	932	TRF OPER RGTS FILED		
12/05/1983	932	TRF OPER RGTS FILED		
01/27/1984	932	TRF OPER RGTS FILED		
05/25/1984	932	TRF OPER RGTS FILED	(1)	
05/25/1984	932	TRF OPER RGTS FILED	(2)	
05/25/1984	932	TRF OPER RGTS FILED	(3)	
05/25/1984	932	TRF OPER RGTS FILED	(4)	
05/25/1984	932	TRF OPER RGTS FILED	(5)	
10/04/1985	567	ASGN RETURNED UNAPPROVED	(1)	
10/04/1985	567	ASGN RETURNED UNAPPROVED	(2)	·
10/04/1985	567	ASGN RETURNED UNAPPROVED	(3)	
10/04/1985	567	ASGN RETURNED UNAPPROVED	(4)	
10/04/1985	567	ASGN RETURNED UNAPPROVED	(5)	

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% Interest

Run Date: 03/14/2016

> **Total Acres** 920.000

Serial Number NMNM---- 015007

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION (MASS) Serial Register Page

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Run Date:	03/14/2010		erial Register Page
10/04/1985	567	ASGN RETURNED UNAPPROVED	(6)
10/04/1985	567	ASGN RETURNED UNAPPROVED	(7)
10/04/1985	933	TRF OPER RGTS APPROVED	(1)EFF 02/01/84;
10/04/1985	. 933	TRF OPER RGTS APPROVED	(2)EFF 02/01/84;
10/04/1985	933	TRF OPER RGTS APPROVED	(3)EFF 02/01/84;
10/04/1985	933	TRF OPER RGTS APPROVED	EFF 01/01/84;
10/07/1985	932	TRF OPER RGTS FILED	
10/17/1985	932	TRF OPER RGTS FILED	(1)
10/17/1985	932	TRF OPER RGTS FILED	(2)
10/18/1985	933	TRF OPER RGIS APPROVED	(1)EFF 11/01/85;
10/18/1985	933	TRF OPER RGTS APPROVED	(2)EFF 11/01/85;
01/07/1986	963	CASE MICROFILMED/SCANNED	CNUM 100,459 AC .
09/11/1986	932	TRF OPER RGTS FILED	(1)
09/11/1986	932	TRF OPER RGTS FILED	(2)
09/23/1986	933	TRF OPER RGTS APPROVED	EFF 11/01/85; .
10/01/1986	933	TRF OPER RGTS APPROVED	(1)EFF 10/01/86;
10/01/1986	933	TRF OPER RGTS APPROVED	(2)EFF 10/01/26;
01/28/1987	932	TRF OPER RGTS FILED	(1)
01/28/1987	932	TRF OPER RGTS FILED	(2)
01/28/1987	932	TRF OPER RGTS FILED	(3)
02/20/1987	• 932	TRF OPER RGTS FILED	
03/30/1987	933	TRF OPER RGTS APPROVED	(1) EFF 02/01/1987
03/30/1987	933	TRF OPER RGTS APPROVED	(2) EFF 02/01/1987
03/30/1987	933	TRF OPER RGTS APPROVED	EFF 03/01/1987
04/29/1988	974	AUTOMATED RECORD VERIF	GLC/VG
05/16/1988	933	TRF OPER RGTS APPROVED	EFF 02/01/1987
05/16/1988	974	AUTOMATED RECORD VERIF	GLC/MT
03/19/1990	932	. TRF OPER RGTS FILED	(1) DUNCAN/FROSTMAN
03/19/1990	932	TRF OPER RGTS FILED	(2) DUNCAN/FROSTMAN
03/21/1990	932	TRF OPER RGTS FILED	(1) LOVEJOY R/FROSTMAN
03/21/1990	932	TRF OPER RGTS FILED	(2) LOVEJOY R/FROSTMAN
04/24/1990	899	TRF OF ORR FILED	
05/18/1990	933	TRF OPER RGTS APPROVED	(1)EFF 04/01/90;
05/18/1990	933	TRF OPER RGTS APPROVED	(2) EFF 04/01/90;
05/19/1990	933	TRF OPER RGTS APPROVED	(1) EFF 04/01/90;
05/19/1990	933	TRF OPER RGTS APPROVED	(2)EFF 04/01/90; GWIN LELAND/FROSTMAN
05/29/1990	932	TRF OPER RGTS FILED	
07/06/1990	932	TRF OPER RGTS FILED	(1) WOOD R/FROSTMAN
07/06/1990	932	TRE OPER RGTS APPROVED	(2)WOOD R/FROSTMAN EFF 06/01/90;
07/17/1990 08/21/1990	933	TRF OPER RGTS APPROVED TRF OPER RGTS APPROVED	(1) EFF· 08/01/90;
08/21/1990	933 933	TRF OPER RGIS APPROVED	(2) EFF 08/01/90;
07/26/1991	932	TRF OPER RGTS FILED	FORISTER C/FROSTMAN
09/26/1991	932	TRF OPER RGTS APPROVED	EFF 08/01/91;
10/01/1991	933	TRF OPER RGTS FILED	FORISTER C/FROSTMAN
02/24/1992	933	TRF OPER RGTS APPROVED	EFF 11/01/91;
06/12/1992	909	BOND ACCEPTED	EFF 04/20/92;NM2030
11/01/1992	621	RLTY RED-STRIPPER WELL	1.3%;/1/
03/08/1993	625	RLTY REDUCTION APPV	/1/ .
10/18/1993	974	AUTOMATED RECORD VERIF .	PR
01/26/1994	932	TRF OPER RGTS FILED	(1) SHOLER/FROSTMAN
01/26/1994	932 932	TRF OPER RGTS FILED	(2) SHOLER/FROSTMAN
		AUTOMATED RECORD VERIF	(2) SHOLEK/ FROSTRAM KRP
03/04/1994	974		(1) 02/01/94;
03/07/1994	933	TRE OPER RGTS APPROVED	
03/07/1994	933	TRF OPER RGTS APPROVED	(2)02/01/94;

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DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** CASE RECORDATION (MASS) Serial Register Page

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Run Date:	03/14/2016	(141A33)	Serial Register Faye
04/01/1996	899.	TRF OF ORR FILED	
03/27/1997	932	TRF OPER RGTS FILED	RHODES/FROSTMAN OIL
04/07/1997	933	TRF OPER RGTS APPROVED	EFF 04/01/97;
04/07/1997	974	AUTOMATED RECORD VERIF	. ANN
06/13/1997	932	TRF OPER RGTS FILED	ELMER SONS/FROSTMAN
07/15/1997	933	TRF OPER RGTS APPROVED	EFF 07/01/97;
07/15/1997	974	AUTOMATED RECORD VERIF	JLV
11/01/2002	899	TRF OF ORR FILED	HUDSON, FRANCIS H;1
01/16/2003	817	MERGER RECOGNIZED	CONOCO/CONOCOPHILLI
01/27/2003	932	TRF OPER RGTS FILED	MAGILL J/FROSTMAN O
02/25/2003	933	TRF OPER RGTS APPROVED	EFF 02/01/03;
02/26/2003	974	AUTOMATED RECORD VERIF	ANN
07/26/2007	246	LEASE COMMITTED TO CA	CA NMNM118858;
08/21/2007	899	TRF OF ORR FILED	. 1
08/29/2007	932	TRF OPER RGTS FILED	FROSTMAN/HARALOW E;
09/14/2007	933	TRF OPER RGTS APPROVED	EFF 09/01/07;
09/14/2007	974	AUTOMATED RECORD VERIF	MV
02/16/2008	643	PRODUCTION DETERMINATION	/1/
02/16/2008	658	MEMO OF 1ST PROD-ACTUAL	/1/ NMNM118858;
06/01/2008	246	LEASE COMMITTED TO CA	CA NM-123453
06/11/2008	658	MEMO OF 1ST PROD-ACTUAL	/2/ NMNM123453;
07/01/2009	246	LEASE COMMITTED TO CA	CA-NM123451
07/14/2009	643	PRODUCTION DETERMINATION	/2/
07/14/2009	658	MEMO OF 1ST PROD-ACTUAL	/2/ NMNM123453;
07/27/2009	932	TRF OPER RGTS FILED	CONOCOPHI/MAGNUM HU
10/06/2009	933	TRF OPER RGTS APPROVED	EFF 08/01/09;
10/06/2009	974	AUTOMATED RECORD VERIF	MV
12/04/2009	932	TRF OPER RGTS FILED	CONOCOPHI/MAGNUM HU
03/05/2010	933	TRF OPER RGTS APPROVED	EFF 01/01/10;
03/05/2010	974	AUTOMATED RECORD VERIF	JS
04/01/2010	246	LEASE COMMITTED TO CA	CA-124739 .
12/03/2010	932	TRF OPER RGTS FILED	CONOCOPHI/MAGNUM HU
12/03/2010	932	TRF OPER RGTS FILED	CONOCOPHI/MAGNUM HU
12/13/2010	899	TRF OF ORR FILED	1
02/10/2011	933	TRF OPER RGTS APPROVED	1 EFF 01/01/2011;
02/10/2011	933	TRF OPER RGTS APPROVED	2 EFF 01/01/2011;
02/10/2011	974	AUTOMATED RECORD VERIF	LBO
03/11/2014	899	TRF OF ORR FILED	1 .
03/17/2014	899	TRF OF ORR FILED	1
08/31/2014	235	EXTENDED	THRU 08/31/16;
08/31/2014	522	CA TERMINATED	CA NM123453
04/23/2015	974	AUTOMATED RECORD VERIF	MJD
12/15/2015	066	BANKRUPTCY FILED	MAGNUM HUNTER PROD

F 04/01/97; N MER SONS/FROSTMAN F 07/01/97; v DSON, FRANCIS H;1 NOCO/CONOCOPHILLIPS GILL J/FROSTMAN OIL F 02/01/03; Ν NMNM118858; OSTMAN/HARALOW E;1 F 09/01/07; 1 / NMNM118858; NM-123453 / NMNM123453; -NM123451 7 / NMNM123453; NOCOPHI/MAGNUM HU;1 F 08/01/09; NOCOPHI/MAGNUM HU;1 F 01/01/10; -124739 . NOCOPHI/MAGNUM HU;1 NOCOPHI/MAGNUM HU;2 EFF 01/01/2011; EFF 01/01/2011; 0 RU 08/31/16; NM123453 D

Serial Number: NMNM -- - 015007

Line Nr 0002

R'un Date: '

03/14/2016

10/06/2009 CONOCOPHILLIPS ES0048/NW

Remarks

DISTRICT I

1625 N. French Dr., Robbs, NM 88240 DISTRICT II

1301 W. Grand Avenue, Artseis, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 9. St. Prancis Dr., Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

4PI 1	lumber			CATIO		ACR	EAGE DEDICATI	ON PLAT			
30-015-35735				97692			WC: High	Lonesome; At	oka SW (G)	ka SW (G)	
Property C			·							Well Number	
OGRID No.	-					rator N			Bleva 364		
16268	3		CIN	IAREX			. OF COLORADO)	304	5	
JL or lot No.	Section	Township	Range	Lot Idr		rom the	North/South line	Feet from the	East/West line	County	
A	28	16 S	29 E	200 101	1	'60	NORTH	760	EAST	EDDY	
· ·			Bottom	Hole I	Location	If Di	ferent From Sur	face		I	
L or lat No.	Section	Township	Range	Lot. idn		rom the	·····	Feet from the	East/Nest line	County	
Dedicated Acres	Joint of	r Infill C	onsolidation	Code]	Order No.			[I	
320			Р								
	WABLE W						UNTIL ALL INTER		EN CONSOLID	ATED	
			NUN-STAN			S BEE	N APPROVED BY	THE DIVISION			
NM-990	32	NM-1	.5007		Glenwoo Fed Coi	n 1 	$3642.7' \not \approx 3651.0'$ $3642.7' \not \approx 3651.0'$ $1 \qquad 1 \qquad 760'$ $1 \qquad 1 \qquad$	I hereby ce contained herei the best of my this organizatio land including location pursus owner of such or to a volunta compulsory pool the division. Signature Frinted Nam	OR CERTIFICAT rify that the inform in is true and comp knowledge and beitg neither curves a wor- ared mineral inferes the proposed beitom in t b a contract with a mineral or working pooling agreement ing order horotofore Aricka Easterlif PR CERTIFICAT that the well locat	nation lete to f. and that ting the hole or a interost. or a entered by Dago ng	
- <u></u>								on this plat w actual surveys supervison ar correct to th Date Supervison Signatur of Patiensides Cortificate N	as plotted from field made by me or al that the same is a best of my belie the same is best of my belie the same is same is the same is same is the same is the same is the same is the same is the same is the same is the same is the same is the sa	d notes of under my s true and f.	

DISTRICT I

1825 N. French Dr., Hobbs, NM 88240 DISTRICT II

1301 W. Grand Avenue, Artesis, NM 68210 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV

1220 S. SL. Francis Dr., Santa Fe, NM 87505

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

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

□ AMENDED REPORT

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API N 30-01	5		Pool Code Pool Name 97149 Henshaw; Morrow S					sw (g)		
Property C		<u> </u>	<u> </u>		Propert	у Нап			Well Nu	imber
3664	8			GL	ENWOOD "2	28"	FEDERAL	·	1	
OGRID No					Operato				Eleval	
16268	3	<u> </u>	<u> </u>	IAREX	ENERGY	<u>. 0.</u>	OF COLORADO	l	364	5'
					Surface	Loca	ition		•	
JL or lot No.	Section	Township	Range	Lot Ide	Feet from	the	North/South line	Feet from the	East/West line	County
A	28	16 S	29 E	ĺ	760		NORTH	760	EAST	EDD
l.		ļ	Bottom	Hole	Location If	Diffe	rent From Sur	lace	<u></u>	•
JL or lot No.	Section	Township	Range	Lot Idi			North/South line	Feet from the	Bast/West line	County
Dedicated Acres	Joint o	r Infill C	onsolidation	Code	Order No.					
320			P					<u> </u>		
NO ALLO	WABLE Y						NTIL ALL INTER Approved by 7		EEN CONSOLIDA	ATED
		<u> </u>			UNII NAS D		AFFROVED BI	THE DIVISION		
		[·····	OPERATO	OR CERTIFICAT	N
NM-990	32	NM-1	15007	1			ا. 642.7' 🖁 3651.0'			
·								rtify that the inform in is true and comp knowledge and belief	lete to	
				1		ļ		1 this organization	knowledge and belief n either curs a work ased mineral interest	ting
	li li li li li li li li li li li li li l				Glenwood 2	8	0760'	land including	the proposed bottom I at to a contract with	hole
					Fed Com 1		i i i	I owner of such	a mineral or working ry pooling agreement	inieresi,
				•			642.5' 3648.4'	compulsory pool	ling order heretofore	entered by
	——	<u> </u>		+		+-		$\frac{1}{10}$	<u> </u>	7.1
							- N32*53'52.21"	Allinkal	axin	73M
							- W104'04'25.46	Signature	X	Date
						NM	SPCE-N 690464.42			
		Į				Ì	(NAD-83)	Aric	cka Easterlin	<u>g</u>
		Ì				İ		Printed Nam	0	
						Ì		SUPVEV	OR CERTIFICAT	יוחא
										101
	1					ł			y that the well locat as plotted from field	
]			1		1		11	mode by me or	-
	1					ł			wi that the same is	
						I		correct to th	e best of my belie,	ŗ.
	I					1		وي ا	NE 15, 2007	
	1			1		1		Date Sortey	10 4040	
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	1								io. Gary L. Jones	. 7977
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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



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. # Glen28FedIdentification:Glenwood 28 Fed. 1Company:Cimarex EnergyLease: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	GPM
		Percent	
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+	<u>0.436</u>	<u>0.189</u>
		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	1 1 25.6	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



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.575.397.3713 2609 W Marland Hobbs NM 88240

For: **Cimarex Energy** Sample: Sta. #SHFTGSNDS Attention: Mark Cummings Identification: Shifting Sands #1 600 N. Marienfeld, Suite 600 Company: Cimarex Energy Midland, Texas 79701 Lease: Plant: 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 =

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		Mol	GPM
		Percent	
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+	<u>1.013</u>	0.438
		100.000	7.319

Component Analysis

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1345.5	Calculated	0.7948
At 14.65 WET	1322.0		
At 14.696 DRY	1349.7		
At 14.696 WET	1326.7	Molecular Weight	23.0207
At 14.73 DRY	1352.8	-	
At 14.73 Wet	1329.5		





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575.397.3713 2609 W Marland Hobbs NM 88240

For: **Cimarex Energy** Sample: Sta. # Glen 28 Fed 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 7/10/2013 Analysis Date 7/12/2013 Pressure-PSIA Sampled by: J. Stevens/Gas Meas 580 Analysis by: Sample Temp F 93 Vicki McDaniel Atmos Temp F 93 H2S .= 1 PPM **Component Analysis** Mol GPM Percent 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	API	Specific
	Sulfur	Gravity @ 60° F	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



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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 H2S = 0.4 PPM	GAS (XX) LIQUID () SAMPLED BY: Vickie Sullivan ANALYSIS BY: Vickie Sullivan

COMPONENT ANALYSIS

	•	MOL	<u>-</u>
COMPONENT ,		PERCENT	GPM
Liveran Culfide	(1100)		
Hydrogen Sulfide	(H2S)	4 005	
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
Hoxane Fillio	(001)		
		100.000	4.549
BTU/CU.FT. – DRY	/ 1225	5	MOLECULAR WT. 20.5405
AT 14.650 DRY	1221		
AT 14.650 WET	1200		
	1226		
AT 14.73 WET	1206)	
	·v		
SPECIFIC GRAVIT		7	
CALCULATE	D 0.707	1	

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

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·	Total	API	Specific
	Sulfur	Gravity @ 60° F	Gravity @ 60* F
Glenwood 28 #4	0.0396 wt.%	46.0	0.7971

Juno 27 Fed. Com. #2 0.0197 wt.% 54.0

Thank You,

0.7628

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:		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		

Sumn	nary	Analysis of Sample 434992 @ 75 °F							
Sampling Date:	08/29/08	Anions	mg/l	meq/l	Cations	mg/i	meq/l		
Analysis Date: Analyst:	09/10/08 LISA HAMILTON	Chloride: Bicarbonate:	13080.0 219.6	368.94 3.6	Sodium: Magnesium:	4720.9 68.0	205.35 5.59		
TDS (mg/l or g/m3): Density (g/cm3, tonn Anion/Cation Ratio:	25215.6 e/m3): 1.016 1.0000000	Carbonate: Sulfate: Phosphate: Borate: Silicate:	0.0 630.0	0. 13.12	Calcium: Strontium: Barium: Iron: Potassium: Aluminum;	350.0 18.0 0.3 8.0 6120.0	17.47 0.41 0. 0.29 156.51		
Carbon Dioxide: Oxygen: Comments:	40 PPM 0 P PM	Hydrogen Sulfide: pH at time of sampling: pH at time of analysis: pH used in Calculation:		0 PPM 7.24 7.24	Chromium: Copper: Lead: Manganese: Nickel:	0.800	0.03		

Cond	itions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl								`	
Temp	Gauge Press.	4	alcite aCO ₃		sum 94 ^{2H} 20		iydrite aSO ₄		stite SO ₄		rite ISO 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

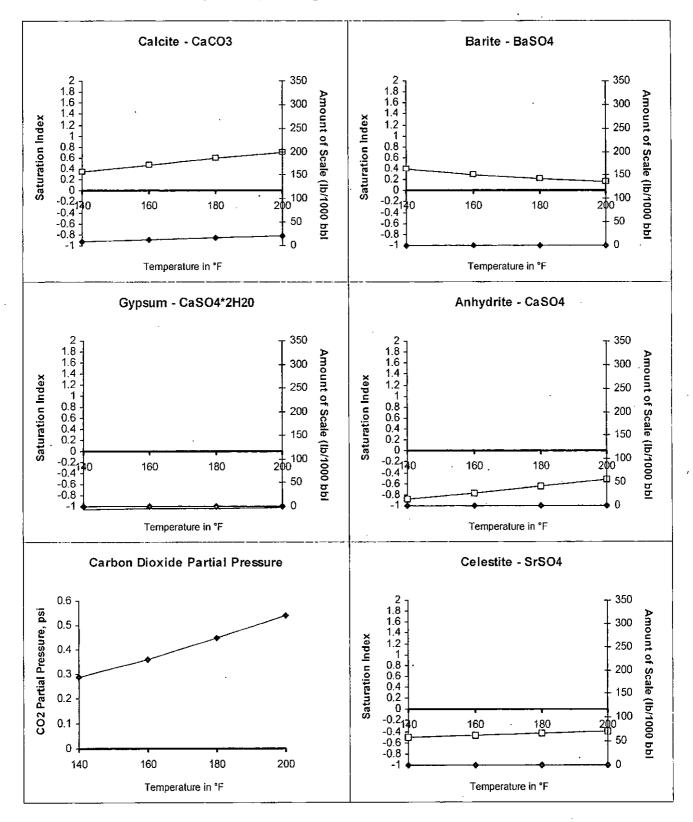
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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

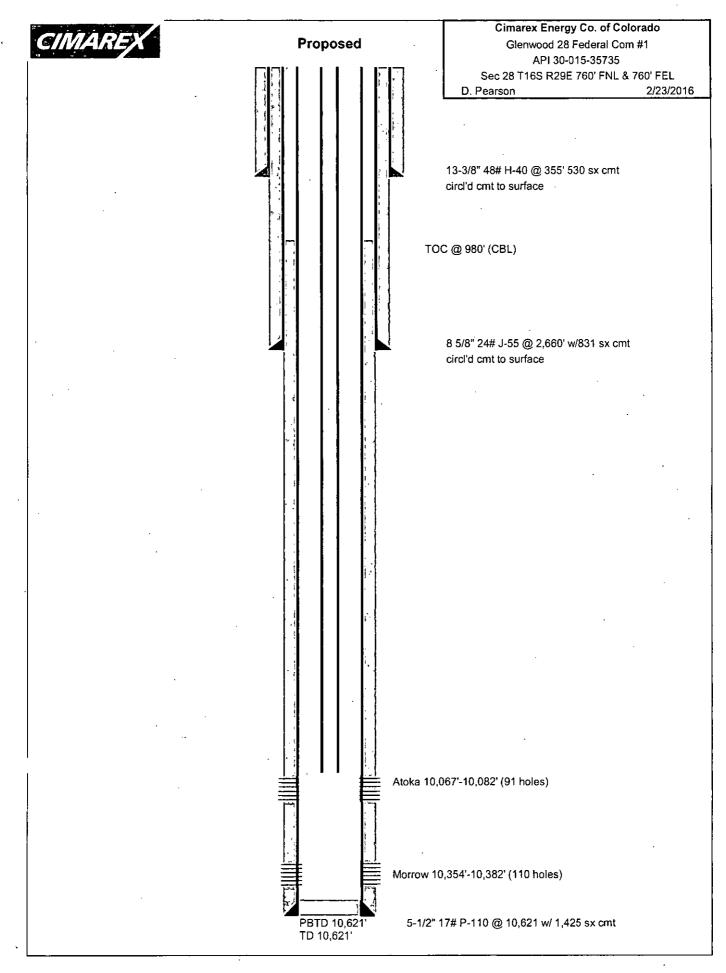
Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Scale Predictions from Baker Petrolite

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



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State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Tony Delfin Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Administrative Order DHC-4791 Order Date: April 13, 2016 Application Reference Number: pMAM1609746434

Cimarex Energy Co. of Colorado 600 North Marienfeld Street, Suite 600 Midland, Tx. 79701

Attention: Ms. Aricka Easterling

Glenwood "28" Federal Well No. 1 API No. 30-015-35735 Unit A, Section 28, Township 16 South, Range 29 East, NMPM Eddy County, New Mexico

PoolWC; HIGH LONESOME; ATOKA, SW (G)Gas (97692)Names:HENSHAW; MORROW, SW (G)Gas (97149)

Reference is made to your recent application for an exception to Division Rule 19.15.12.9A. NMAC of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appears that the subject well qualifies for approval for such exception pursuant to the provisions of Division Rule 19.15.12.11A. NMAC, and since reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with Division Rule 19.15.12.11A.(6) NMAC, the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

As per the application, the assignment of allowable and allocation of oil and gas production from the subject well for the WC; High Lonesome; Atoka, SW Pool shall be based on the actual production of the well. Production for the subject well from the Henshaw; Morrow, SW shall be based on prior production, before a plug was set on top of the formation. Assignment of allowable and allocation of production from the well shall be as follows:

WC; HIGH LONESOME; ATOKA, SW (G) POOL	Pct. Oil: 100	Pct. Gas: 36
HENSHAW; MORROW, SW (G) POOL	Pct. Oil: 0	Pct. Gas: 64

It is also understood that notice of this application, pursuant to Division Rule 19.15.4.12A.(6), is not required since the interest ownership between the zones to be commingled is common throughout.

REMARKS: The operator shall notify the Division's District II office upon implementation of commingling operations.

This Order is subject to like approval from the Bureau of Land Management.

Pursuant to Division Rule 19.15.12.11B. NMAC, the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

David R. Catanach Director

DRC/mam

cc: New Mexico Oil Conservation Division – Artesia Bureau of Land Management - Carlsbad