District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

Type or print name

For State Use Only: APPROVED BY:

Steve Morris

Paul F Kautz

E-mail address

TITLE

State of New Mexico

Form C-103
August 1, 2011

District II	01011 ax.(313) 393-0120		Energy	ı. Mine	rals ar	าd Natı	ural Re	esour	ces				Pe	rmit 273705
811 S. First St., Ar					-						WE	ELL API N			
Phone:(575) 748-	1283 Fax:(575) 748-9720				onserv	ation [JIVISIO	n)-025-452		
1000 Rio Brazos F	Rd., Aztec,	NM 87410			122	0 5 5	t Franc	ie Dr			5.	Indicate Ty S	ype of Leas	е	
Phone:(505) 334-6	6178 Fax:(505) 334-6170						_			6.		Gas Lease	e No.	
District IV 1220 S. St Francis	Dr Cont	- Fo. NM 97505			Sa	nta Fe	, NM 8	7505							
Phone:(505) 476-3							•								
	,	·									7.		ne or Unit A		Name
(DO NOT USE TH (FORM C-101) FO		OR PROPOSALS TO I		DTICES AND DEEPEN OR I	_		_	DIR. USE "AP	PLICATION	FOR PERM	ит"	LE	ENNOX 34	STATE	
1. Type of Well: O												Well Numb	oer 01H		
2. Name of Operator CAZA OPERATING, LLC													mber 19099		
3. Address of Oper 200 N		St, Suite 1550, Midla	ınd, TX 7970	01							10	. Pool nam	ne or Wildca	at	
4. Well Location		040	0				14/								
Unit Le	tter <u>M</u> n 34	: 240 feet from Township 225		line	and feet 990 NMPM		from the <u>W</u>		line						
Gection	. 54	Township ZZC	- Italige	00L	_ 141011 101		inty <u>LCa</u>								
		11		how whether D	R, KB, BT, GF	R, etc.)									
			_	3 GR											
		or Closure													
				nearest fresh				surface water_							
Pit Liner Thickness	s:	mil Below-G	rade Tank: V	olume	bbls;	Construction I	Material		_						
12. Check Approp	oriate Box	to Indicate Nature of No					1								
PERFORM REMI	EDIAL MO		INTENTION :	TO: IG AND ABANI	ON		REMEDIAL	WORK	\$	SUBSEQUE		RT OF: ALTER C	ACINO		
TEMPORARILY A			_	NGE OF PLAN				WORK E DRILLING (PNS.		_		ASING D ABANDO	ıΝ	
PULL OR ALTER				LTIPLE COMP			CASING/CE								_
Other:							Other: Drilli	ng/Cement							\times
Attach wellbore di 09/04/201917.5" h	iagram of p nole to 194 Test casing	mpleted operations. (Coroposed completion or 0'. Ran 13.375" 54.5# . g to 800psi and hold for	recompletion J55 STC casi	n. ng, cement wit											
Casing and Cer	ment Pro	gram													
Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
09/04/19	Surf	FreshWater	17.5	13.375	54.5	J55	0	1936	1020	1.97	С		800	0	N
09/04/19	Surf	FreshWater	17.5	13.375	54.5	J55	1636	1936	310	1.32	С		800	0	N
08/11/19	Int1	Brine	12.25	9.625	40	j55	0	1882	745	2.36	С		1500	0	N
09/09/19	Int1	Brine	12.25	9.625	40	L80	1882	5086	745	2.36	С		1500	0	N
09/09/19	Int1	Brine	12.25	9.625	40	HCL80	5086	5896	350	2.36	С		1500	0	N
09/09/19	Int1	Brine	12.25	9.625	40	HCL80	5396	5896	200	1.32	C		1500	0	N
09/30/19	Prod	CutBrine	8.75	5.5	23	T95	0	14726	970	3.51	h		9000	0	N
09/30/19	Prod	CutBrine	8.75	5.5	23	T95	9600	14726	1000	1.34	h		9000	0	N
		ormation above is true leneral permit ☐ or an					further certify	that any pit or	below-grad	e tank has	been/will b	e constru	cted or clos	ed accordi	ng to
SIGNATURE		Electronically Sign	ed	TITLE	Eng	ineer				DATE		10/	23/2019		

steve.morris@morcorengineering.com

Geologist

Telephone No.

DATE

432-201-3031

10/28/2019 4:55:39 PM



Petrolet	ım											
WELL/JOB INFORMATI	ION											
	Lennox 34 State	1H		API N	umber: 30-	-025-45289						
	Rock Lake; Bone			Ob	Objective: 1st Bone Spring							
Surface Location:			L 990'FWL		Drilling AFE #: 52106							
County / State:					AFE \$: \$4,							
CASING SUMMARY	, , , , , , , , , , , , , , , , , , , ,				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Item		No. Jnt	s OD	Wt.	Grade	Conn	Len	ngth	Bot Pipe MD			
Conductor		24905		94.00	H40			20	120.00			
Surface Intermediate		249058 249058		54.5 40 H	J-55 ICL80,L80,J55	STC BTC		940	1,936.00 5,896.00			
intermediate		2.505	3.023		10200,200,000	3.0	3,3	.01	3,030.00			
CEMENTING INFORMA	ATION											
				Surface		▼						
		1										
	enting Company:					Dist	trict:					
MUD PROPERTIES WH	ILE CEMENTING	3										
			Wt	PV		YP	рН	W	/L			
Mud Type:		1					1					
Pre-flush Volume		+	_		(556)	/5.1/1		0= (01.)				
	Cement Sa	cks	Туре	<u>W</u> 1	t. (PPG)	Wtr (Gal/sl	<u>k)</u> <u>Yield (</u>	CF/Sk)	<u>Volume (CF)</u>			
Additives	1020		-1 6		12.00	262.00		0.7	257.00			
A dallate	1020	Station at all a	class C		12.90	263.00	1.	97	357.00			
Additives	Bentonite, Cal. C	.hloride,			14.00	46.50	4	22	72.00			
Additives	310 NEAT		Class C		14.80	46.50	1.	32	72.00			
Additives	NEAT											
Additives												
Stage #			Mixing	:	bbl/min		Displacing:		bbl/mi			
Displacement Fluid:		Calc	. Displacement:		bbls.	Actual Di	splacement:		bbls.			
Mud Returns:		%										
Cmt Returns:		sx/bbls										
Estimated Cement 1	on:	0.1, 0.0.0		ft.w/		exc	cess					
Final Circ Press	•	psi	Bump Plug w/		psi	Time:		Date: 9	/4/2019			
Stage #		Tail	Mixing:		bbl/min		Displacing:	7	bbl/mii			
Displacement Fluid:	Freshwater	Calc	. Displacement:		bbls.	Actual Di	splacement:	288	bbls.			
Mud Returns:	100	%		-1	- 1	1						
Cmt Returns:	162 bbls / 462 sx	sx/bbls										
Estimated Cement 1	•		<u> </u>	ft.w/		exc	cess					
Final Circ Press	ure: 550	psi	Bump Plug w/	1036	psi	Time:	9:12	Date: 9,				
Stage #			Mixing:		bbl/min		Displacing:		bbl/mi			
Displacement Fluid:		Calc	. Displacement:	:	bbls.	Actual Di	splacement:		bbls.			
Mud Returns:		%										
Cmt Returns:		sx/bbls										
Estimated Cement 1		,		ft.w/			cess	,				
Final Circ Press		psi	Bump Plug w/	<u> </u>	psi	Time:		Date:				
Stage #			Mixing:		bbl/min		Displacing:		bbl/mi			
Displacement Fluid:			. Displacement:	:	bbls.	Actual Di	splacement:		bbls.			
Mud Returns:		%										
Cmt Returns:		sx/bbls					Т					
Estimated Cement 1		1 1		ft.w/	T		cess					
Final Circ Press		psi			psi	Time:		Date:				
Waiting on Cem	ent:		Hours	Start Time:		En	id Time:					
			Centralize	er Spacing & Re	marks							
Managhan Carata II	0.00	,			D	rod D						
Number Centraliz		3			Prepa	red By:						
Casing head tested	ι ισ:	psi										



Casing head tested to:

psi

CASING & CEMENT REPORT

Petroleu	m		O , .	C	CEIVIEN	0.	•						
WELL/JOB INFORMATI													
	Lennox 34 State				AF	PI Number:							
	Rock Lake; Bone							st Bone Spring					
Surface Location:		34 240'FS	SL 99	0'FWL		lling AFE #:							
County / State:	Lea, NM				Dril	lling AFE \$:	\$4,59	4,754					
CASING SUMMARY													
Item		No. Jn		OD	Wt.	Grade		Coni	n	Length		Bot Pipe MD	
Conductor Surface		24905 24905		20 13.375	94.00 54.5	H40 J-55		STC		120 1,940	-	120.00 1,936.00	
Intermediate		24905		9.625	40	HCL80,L80,	J55	ВТС		5,901		5,896.00	
											-		
											-		
CERAENTING INCORRA	TION												
CEMENTING INFORMA	ITON												
					Intermed	diate	•						
Ceme	enting Company	Par 5							District:				
MUD PROPERTIES WH	ILE CEMENTING	G											
NAME TO SE				Wt	9.3 PV	3	YI	Р	2 pH	7.5	WL		
Mud Type:	T 0.14/ 1.1.							•					
Pre-flush Volume			20	_	gel mud	(55.6)		9	1/13 30	11/05/0		. (0=)	
	Cement Sa	icks		Туре		Wt. (PPG)		Wtr (Ga		eld (CF/S	<u>k) V</u>	olume (CF)	
	350			Class C		11.80		107.	00	2.36		126.00	
Additives	Bentonite, Cal. (Chloride,	Cello	•									
	200			Class C		14.80		58.0	00	1.32		58.70	
Additives	NEAT		1										
	1490		L	Class C		11.90		455.	00	2.36		626.20	
Additives	Bentonite, Cal. (Chloride,	Cello										
	95			Class C		14.80		22.0	00	1.32		35.20	
	NEAT	1 1	<u>.</u> 1	N Alindia an		la la I /aa			Diamin.	·		la la / sa :	
Stage #	1 Contribution	Lead		Mixing:		bbl/m	ıırı	A a4a	Displac		6	bbl/mi	
Displacement Fluid:	Cut Brine		c. Dis	placement:	444	bbls.		Actua	l Displacem	ent:	444	bbls.	
Mud Returns:	100	%											
Cmt Returns:	0	sx/bbls			ft.w/								
Estimated Cement T					-				excess	-	. 0.40	/2040	
Final Circ Pressu	ıre: 573 1	psi Tai		mp Plug w/		psi bbl/m	.:	Time:	20:09 Displac		ite: 9/9	/2019 bbl/mi	
Stage #	Cut Brine			Mixing: splacement:		bbls.	1111	A ctua	l Displacem		6 444	bbls.	
Displacement Fluid: Mud Returns:	100	%	c. Dis	ріасепіені.	444	טטוא.		Actua	Displacelli	ent.	444	DDIS.	
Cmt Returns:	0	sx/bbls											
		38/ 0013			ft.w/				ovcocc				
Estimated Cement T Final Circ Pressu		nci	Du	mp Plug w/	1130	psi		Time:	excess 20:30	Da	ite: <mark>9/9</mark>	/2010	
Stage #	2	psi Lead	, ,			bbl/m	nin	mine.	Displac			bbl/mi	
Displacement Fluid:	Cut Brine			Mixing: splacement:		bbls.	1111	\\ ctilo	l Displacem		6 312	bbls.	
Mud Returns:	100	%	L. DIS	priacement:	320.5	ນນເร.		Actua	ווויייייייייייייייייייייייייייייייייייי	ciit.	212	ນນາ5.	
Cmt Returns:		% sx/bbls	ı										
Estimated Cement T	Yes				ft.w/				ovcoss				
		Surfac		Dl/				T:	excess	D-	+ 0/0	/2010	
Final Circ Pressu		psi	1 ,	mp Plug w/		psi		Time:	00:30		ite: 9/9		
Stage #	Cut Dring	Tai		Mixing:		bbl/m	III	Λ	Displace		6	bbl/mi	
Displacement Fluid:	Cut Brine		c. Dis	placement:	320.5	bbls.		Actua	l Displacem	ent:	312	bbls.	
Mud Returns:	100	%											
Cmt Returns:	Yes	sx/bbls			Ct /								
Estimated Cement T	-	Surfac			ft.w/	1			excess				
Final Circ Pressu		psi	-	mp Plug w/		psi		Time:	02:27	Da	ite: 9/9		
Waiting on Ceme	ent:	8		Hours	Start Ti		03:4	5	End Time:		11:4	5	
				Centralize	er Spacing &	Remarks							
Number Centralize	ers:					Dra	enared	By: Chr	is Beehe				
Casing head tested		nc:				FII	cpared	a by. Cill	יי מרבחב				



Casing head tested to:

psi

CASING & CEMENT REPORT

Production Pro		ON	411					005 4505							
Surface Location: 122 R 325 See: 34 240754 9075W. Drilling AFE #: 52106															
Country / State Lea					1 - 1										
Additives Stage # Lead Mixing: 6 Bbl/min Displacing: 6 Lead Mixing: 6 Bbl/min Displacing: 6 Lead Mixing: 6 Bbl/min Displacing: 6 Lead Bbl/min Displacing: 6 Lead Bbl/min Displacing: 6 Lead Bbl/min Displacing: 6 Lead Bbl/min Displacing: 6			4 240'FS	L 990'FWL			_								
Item		Lea, NM				Dril	ling AFE \$: \$4	,695,632							
								Coni	n						
Production Pro								STC	:			936.00			
Cementing Company PAR FIVE District: Artesia	ntermediate											896.00			
Cementing Company: PAR FIVE	roduction		24905	8 5.5		23	1-95	BIC	:	14,768	14,	726.00			
Cementing Company: PAR FIVE															
Mud Type: PAR FIVE District: Artesia															
Cementing Company: PAR FIVE															
Cementing Company: PAR FIVE															
Cementing Company: PAR FIVE											-				
Cementing Company: PAR FIVE	CEMENTING INFORMA	TION													
Cementing Company: PAR FIVE						Sec. 10. 10.									
Mud Type:						Production	on	Y							
Mud Type:	Ceme	enting Company:	PAR FIV	/E					District: Arte	sia					
Mud Type:				_					2.0000	31G					
Mud Type: Pre-flush Volume, Type & Weight: 70	WIOD FROFERIES WII	ILL CLIVILIVITING	,	\\/t	9.8	D\/	9	VD	18 nH	9.5	\ \ /I	12.4			
Pre-flush Volume, Type & Weight: 70	Mud Type:			VVC	3.0	r v	9	ir	18 pm	3.3	VVL	12.4			
Cement Sacks		Type & Weight:		70	Mu	d Clean		0							
970	FIE-Hushi volume					J Clean			ol/sk) Vio	14 (CE (SP)	Volu	mo (CE)			
Additives 50/50 Lite + 5% Salt + 12% Gel + 0.4% Anti 1000 Class H 14.20 143.00 1.34 238. Additives 3% Salt + 2% Gel + 0.1%			LKS												
1000 Class H 14.20 143.00 1.34 238.	A dditivos		Colt + 12				11.00	492.	00	5.51	00	10.30			
Additives Additives Addit	Additives		3dil + 12				14.20	1/12	00	1 2/	72	29.60			
Additives Additives	Additivos		L + O 10/	Clas	311		14.20	143.	00	1.34		78.00			
Additives Stage #	Auditives	5% 3ail + 2% Ge	1+0.1%												
Additives Stage #	Additivos														
Displacement Fluid:	Additives			1							т —				
Stage # 1 Lead Mixing: 6 bbl/min Displacing: 6 lt Displacement Fluid: Freshwater Calc. Displacement: 311 bbls. Actual Displacement: 311 lt Mixing: 6 bbl/min Displacement: 311 lt	Additivos														
Displacement Fluid: Freshwater Calc. Displacement: 311 bbls. Actual Displacement: 9/30/20: Stage # 1 Tail Mixing: 6 bbl/min Displacing: 6 bbl/min Displacing: 6 bbl/min Displacement: 311 bbls. Actual Displacement: 2/30/20:		1	Lead	Mixi	ng:	6	bbl/min		Displaci	ng:	6	bbl/m			
Mud Returns: 100 %					_			Actua				bbls.			
Cnt Returns:				<u></u>			00.01	7.000	2.0p.0000			20.01			
Estimated Cement Top: Surfcae ft.w/ 40 excess															
Final Circ Pressure: 1546				IP	ft w	/	40		excess						
Stage # 1 Tail Mixing: 6 bbl/min Displacing: 6 bt Mixing: 6 bbl/min Displacing: 6 bt Mixing: 6 bbl/min Displacing: 6 bt Mixing: 100 % Cmt Returns: 100 %										Date	9/30/3	2019			
Displacement Fluid: Freshwater								Tillic.				bbl/m			
Mud Returns: 100 % Cmt Returns: 64sx sx/bbls Estimated Cement Top: ft.w/ 10 excess Final Circ Pressure: 1546 psi Bump Plug w/ 2067 psi Time: 00:18 Date: 9/30/20: Stage # Mixing: bbl/min Displacing: b Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: b Cmt Returns: sx/bbls ft.w/ excess E Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Stage # Mixing: bbl/min Displacement: b Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: b Mud Returns: % cmt Returns: sx/bbls ft.w/ excess excess Estimated Cement Top: ft.w/ psi Time: Date: Final Circ Pressure: psi Bump Plug w/ psi Time:					-			Actua		_		bbls.			
Cmt Returns: 64sx sx/bbls Estimated Cement Top: ft.w/ 10 excess Final Circ Pressure: 1546 psi Bump Plug w/ 2067 psi Time: 00:18 Date: 9/30/203 Stage # Mixing: bbl/min Displacing: to bly min Displacing: to bly min Displacement: to bly min Disp															
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Final Circ Pressure: 1546 psi Bump Plug w/ 2067 psi Time: 00:18 Date: 9/30/202 Stage #			57,7 5 5 15		ft.w	/	10		excess						
Stage # Mixing: bbl/min Displacing: bbls. Actual Displacing: bbls. Displacement Fluid: Sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Stage # Mixing: bbl/min Displacing: bt Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: b Mud Returns: % Cmt Returns: sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:		•	nsi	Bumn Plug				Time:		Date	9/30/2	2019			
Displacement Fluid: Mud Returns: Cmt Returns: Sx/bbls Estimated Cement Top: Final Circ Pressure: Displacement Fluid: Calc. Displacement: ft.w/ psi Mixing: Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: psi Bump Plug w/ psi Time: Date: Date: Date: Calc. Displacement: bbls. Actual Displacement: b		13 10	PSI					1111101			3/30/2	bbl/m			
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Cmt Returns: sx/bbls Estimated Cement Top: ft.w/ psi Time: Date: Stage # Mixing: bbl/min Displacing: btl Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: t Mud Returns: sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:	<u>'</u>			Displacellie			5513.	7 letuu	Пъприссти	110.	=	0013.			
Estimated Cement Top: Final Circ Pressure:											-	-			
Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Stage # Mixing: bbl/min Displacing: t Displacement Fluid: Calc. Displacement: bbls. Actual Displacement: t Mud Returns: % Cmt Returns: sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:		on:	3// 0013		ft w	1			AVCASS						
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Mud Returns: % Cmt Returns: sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:			Calc		_		-	A ctua		-		bbls.			
Cmt Returns: sx/bbls Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:				Dispiaceine	:116.		มมเร.	Actua	יי הואומרהווופ	111.		սսյչ.			
Estimated Cement Top: ft.w/ excess Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:															
Final Circ Pressure: psi Bump Plug w/ psi Time: Date: Waiting on Cement: 12 Hours Start Time: End Time:		one	sx/nnis		£	1			ovcocc						
Waiting on Cement: 12 Hours Start Time: End Time:		-		Division DI		/	,:	T :	excess	D - 1					
						C1 -		ııme:	Final Time	Date					
Centralizer Spacing & Remarks	Waiting on Ceme	ent: 1							Ena Time:						
				Centra	ııızer Sp	acing &	кетаrкs								
Number Centralizers: Prepared By:	Name la concentration de l	0.401					D	rod D							

www.wellez.com WellEz Information Management LLC 09.11.19br

www.wellez.com WellEz Information Management LLC 09.11.19br

www.wellez.com WellEz Information Management LLC 09.11.19br

Comments

Permit 273705

<u>District I</u> 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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

DRILLING COMMENTS

Operator:	OGRID:
CAZA OPERATING, LLC	249099
200 N Loraine St	Permit Number:
Midland, TX 79701	273705
	Permit Type:
	Drilling

Comments

Created	Comment	Comment
Ву		Date
smorris	9/11/2019 12.25" hole to 5896'. Ran 9.625" 40# J55 (1882'), 40# L80 (5086') and 40 HCL80 to 5896'. ECP @ 4230', DV @ 4215'. Cement Stage 1 350sx Lead	10/23/2019
	11.8ppg Class C + gel + CaCl2 + Cellophane + Defoamer. 200sx Tail 14.8ppg Class C neat. Stage 2 1490sx Lead 11.8ppg Class C + gel. 95sx 14.8ppg Class C	
	neat. Test 1500psi for 30 mins, good. 9/30/2019 8.75" hole to 14,726. 5.5" 23# T95 BTC. Cement 970sx Lead 11ppg Class H 50/50 Lite + 5% salt + 12% gel +	
	0.4% anti-foam. 1000sx Tail 14.2ppg Class H + 3% salt + 2% gel + 0.1% anti-foam. Test casing to 9000psi for 30 mins. Good test.	