erved by OCD: 1/2/2024 12:44:57 PM .S. Department of the Interior UREAU OF LAND MANAGEMENT		Sundry Print Repo
Well Name: TEA OLIVE FED COM 25 36 33	Well Location: T26S / R36E / SEC 4 / NWNE / 32.0789478 / -103.2692425	County or Parish/State: LEA / NM
Well Number: 115H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM136233	Unit or CA Name:	Unit or CA Number:
US Well Number: 300255074200X1	Well Status: Drilling Well	Operator: AMEREDEV OPERATING LLC

Notice of Intent

Sundry ID: 2762039

140

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/16/2023

Date proposed operation will begin: 10/25/2023

Type of Action: APD Change Time Sundry Submitted: 02:05

Procedure Description: Ameredev APD Change for Production Cement Weights (Verbally approved by Allison Morency 10-25-23): •Pump 50 bbl 11 ppg spacer •Pump 11.5 ppg lead, 550 sks (260 bbl) Yield 2.65, Mix Water 15.3 gps, 100% HSLD 94 Cement + .5% C45 Econolite + .6% CFL2 + .61% Citric acid + .075% CSA1000 + 4%STE + 0.64 lb/sk Salt •Pump 13 ppg tail, 800 sx (227 bbl), Yield 1.59, Mix Water 8.01 gps, 100% HSLD 82 Cement + 0.65% CFL2 + 0.07% CSA-1000 FLA + 4%STE + 0.225% R-1D + 0.33lb/sxs Salt + 1 lb/sxs Gyp Seal.

NOI Attachments

Procedure Description

Tea_Olive_Fed_Com_25_36_33_115H_Production_Cement_Change_20231116140424.pdf

C2311053_1_Ameredev_Tea_Olive_115H_Production_Lead_11.5_20231116140424.pdf

Fwd___EXTERNAL__Tail_slurry_modification___Amer..._20231116140424.pdf

C2311054_2_Ameredev_Tea_Olive_115H_Production_Tail_13.0_20231116140424.pdf

C2311127_4_Ameredev_Tea_Olive_115H_Production_Spacer_11.2_20231116140424.pdf

Ameredev___Tea_Olive_115H___Production___v3_20231116140424.pdf

Received by OCD: 1/2/2024 12:44:57 PM Well Name: TEA OLIVE FED COM 25 36 33	Well Location: T26S / R36E / SEC 4 / NWNE / 32.0789478 / -103.2692425	County or Parish/State: LEA
Well Number: 115H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM136233	Unit or CA Name:	Unit or CA Number:
US Well Number: 300255074200X1	Well Status: Drilling Well	Operator: AMEREDEV OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CHRISTIE HANNA

Name: AMEREDEV OPERATING LLC

Title: Senior Engineering Technician

Street Address: 2901 VIA FORTUNA, SUITE 600

City: AUSTIN

State: TX

Phone: (737) 300-4723

Email address: CHANNA@AMEREDEV.COM

Field

Representative Name: Joel KaufmanStreet Address: 2901 Via Fortuna, Ste. 600City: AustinState: TXPhone: (737)300-4700Email address: drillingengineering@ameredev.com

Zip: 78746

Signed on: NOV 16, 2023 02:03 PM

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved

Signature: Chris Walls

BLM POC Title: Petroleum Engineer BLM POC Email Address: cwalls@blm.gov Disposition Date: 12/20/2023

Received by OCD: 1/2/2024 12:44:57 PM

eceiveu by OCD. 1/2/2024	12.44.37 1 1/1			ruge 5 0j
	UNITED STAT DEPARTMENT OF THE SUREAU OF LAND MAN	INTERIOR		FORM APPROVED DMB No. 1004-0137 pires: October 31, 2021
SUND Do not use th	RY NOTICES AND REP his form for proposals		6. If Indian, Allottee	or Tribe Name
	T IN TRIPLICATE - Other inst	ructions on page 2	7. If Unit of CA/Agre	eement, Name and/or No.
1. Type of Well	Gas Well Other		8. Well Name and No).
2. Name of Operator			9. API Well No.	
3a. Address		3b. Phone No. (include area code) 10. Field and Pool or	Exploratory Area
4. Location of Well (Footage, Sec	, T.,R.,M., or Survey Description	n)	11. Country or Parish	, State
12.	CHECK THE APPROPRIATE I	BOX(ES) TO INDICATE NATURE	OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYI	PE OF ACTION	
Notice of Intent	Acidize	Deepen Uydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other
Final Abandonment Notice			Water Disposal	
the proposal is to deepen dire- the Bond under which the wo completion of the involved op	tionally or recomplete horizonta k will be perfonned or provide t erations. If the operation results	Illy, give subsurface locations and m he Bond No. on file with BLM/BIA in a multiple completion or recomp	easured and true vertical depths . Required subsequent reports miletion in a new interval, a Form 2	ork and approximate duration thereof. If of all pertinent markers and zones. Attach ust be filed within 30 days following 8160-4 must be filed once testing has been the operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)			
1	Title		
Signature	Date		
THE SPACE FOR FEDE	RAL OR STATE O	FICE USE	
Approved by			
	Title		Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant of 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 any false, fictitious or fraudulent statements or representations as to any matter within		illfully to make to any d	epartment or agency of the United States

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNE / 230 FNL / 2380 FEL / TWSP: 26S / RANGE: 36E / SECTION: 4 / LAT: 32.0789478 / LONG: -103.2692425 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 100 FSL / 2318 FEL / TWSP: 25S / RANGE: 36E / SECTION: 33 / LAT: 32.0798549 / LONG: -103.2690431 (TVD: 11648 feet, MD: 12226 feet) PPP: SWNE / 2640 FSL / 2399 FEL / TWSP: 25S / RANGE: 36E / SECTION: 28 / LAT: 32.013494 / LONG: -103.2690453 (TVD: 11666 feet, MD: 20037 feet) PPP: SWSE / 0 FSL / 2372 FEL / TWSP: 25S / RANGE: 36E / SECTION: 28 / LAT: 32.0940927 / LONG: -103.2690422 (TVD: 11666 feet, MD: 17396 feet) BHL: NWNE / 50 FNL / 2318 FEL / TWSP: 25S / RANGE: 36E / SECTION: 28 / LAT: 32.1084626 / LONG: -103.2690482 (TVD: 11666 feet, MD: 22624 feet)

Do not	BU SUNDRY t use this	UNITED STAT EPARTMENT OF TH REAU OF LAND MA NOTICES AND REF s form for proposals I. Use Form 3160-3 (E INT NAC PORT 5 to d	GEMENT TS ON WELLS Irill or to re-ente			0	$\frac{\text{MB I}}{\text{ires: }}$	1 APPROVED No. 1004-0137 January 31, 2018
	SUBI	MIT IN TRIPLICATE - Oth	er insti	ructions on page 2.				Agree	ment, Name and/or No.
1. Type of Well Oil W	ell	Gas Well	Other				N/A 8. Well Name and Tea Olive FED C		
2. Name Operator AMEREDEV OPE	RATING	LLC (372224)					9. API Well No. 30-025-50742		
3a. Address 2901 VIA FORTU AUSTIN, TX 7874	NA, SUIT			Phone No. (<i>include area</i> 7) - 300 - 4700	code)		10. Field and Poo	l or E	Exploratory Area CAMP, WEST
4. Location of Well (Footage, Sec., T.R.M., or Survey Description)				11. Country or Parish, State					
Sec. 33 T25S R36	E NMP 20	00 FSL 1058 FWL LAT	. 32.07	789478 LONG103	3.26924	25	LEA COUNT	Y, N	VEW MEXICO
12.	CHECK T	HE APPROPRIATE BOX(ES) To	O INDICATE NATUR	RE OF N	OTICE,	REPORT OR O	ГНE	R DATA
TYPE OF SUBMIS	SSION			TYP	E OF AC	TION			
X Notice of Intent		Acidize		Deepen		Production	n (Start/Resume)		Water Shut-Off
		Alter Casing		Fracture Treat		Reclamati	on		Well Integrity
Subsequent Repo	rt	Casing Repair		New Construction		Recomple	te		Other : Production Cement
		X Change Plans		Plug and Abandon		Temporar	ily Abandon	-	
Final Abandonme	ent Notice	Convert to Injection		Plug Back	Ē	Water Dis	posal	-	

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 recomplete 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 recompletion 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.

Ameredev APD Change for Production Cement Weights (Verbally approved by Allison Morency 10-25-23):

•Pump 50 bbl 11ppg spacer

•Pump 11.5 ppg lead, 550 sks (260 bbl) Yield 2.65, Mix Water 15.3 gps, 100% HSLD 94 Cement + .5% C45 econolite + .6% CFL2 + .61% Citric acid + .075% CSA1000 + 4% STE + 0.64 lb/sk Salt

•Pump 13ppg tail, 800 sx (227 bbl), Yield 1.59, Mix Water 8.01 gps, 100% HSLD 82 Cement + 0.65% CFL2 + 0.07% CSA-1000 FLA + 4%STE + 0.225% R-1D + 0.33lb/sxs Salt + 1 lb/sxs Gyp Seal.

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) Joel Kaufman	Drilling Engir	leer	
Signature Joel Kaufman	11/06/2023 Date		
THIS SPACE FOR FEDERA	L OR STATE OFF	CE USE	
Approved by			
	Title	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or cert that the applicant holds legal or equitable title to those rights in the subject lease which wou 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 pers false, fictitious or fraudulent statements or representations as to any matter within its jurisdue		make to any department or agency of the U	nited States any

(Instructions on page 2)

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NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

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The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the

time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)



Lab Analysis Report

10013 W County Rd 157 Midland, Tx 79706

Project No.	C2311053-1		
Report Date	11/5/2023	MD	22153
Requestor	Issac Harris	TVD	11162
Analyst	MA	Test T. (°F)	166
Client	Ameredev	BHST (°F)	166
Well	Tea Olive 115H	BHCT (°F)	166
County	Lea	BHP (psi)	6400
Job	Production	Mud Weight (ppg)	11
Slurry	Lead Cement	Blend Type	Pilot

Slurry Properties				
Slurry Density (ppg)	Blend Yield (ft3/sk)			
11.50	2.65			

Slurry Composition						
Component	Concentration	Unit	Lot #			
HSLD 94 C	100.000	% of Base Material	Tank G			
C-45	0.500	% BWOB	442C1014			
Citric Acid	0.610	% BWOB	11100675			
CSA-1000	0.075	% BWOB	2L9294W			
STE	4.000	% BWOB	5142022			
CFL-1	0.600	% BWOB	202221018			
Salt	0.500	% BWOW	72523			

Base Fluid				
Water Source	Water Req. (gal/sk)			
Rig	15.30			

Comments

TT stirred for 154 mins, hesitated for 30 mins. UCA referenced from C2310014-2.

n' / K' (lbf-s^n/100ft2)

Project No.	C2311053-1
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Rheology	Rheology				е	
Temperature (°F)	80	164	HPHT Unit Number	2	Initial	Final
Pressure (psi)	0	0	Temperature (°	F)	80	166
Condition Time (min)	0	30	Pressure (psi)		1000	6400
RPM	Average	Average	Ramp Time (mii	n)	1	56
300	54	60	Consistency (BC	C)	6	70
200	40	47	Time (hr:mm)		0:01	12:39
100	26	29	Batch Mixing			
60	20	21	Mixing Time (hr:min)			
30	14	14	Temperature (°F)			
6	8	8				
3	6	5				
10 sec gel (lbf/100ft2)						
10 min gel (lbf/100ft2)						
1 min stirring (lbf/100ft2)						
Rheology Model	Bingham	Bingham				
PV (cP)	47.0	54.9				
YP (lbf/100ft)	8.9	8.6				

Fluid Loss		Free Fluid		
Temperature (°F)	164	Conditioning Temp (°F)	164	
Pressure (psi)	1000	Conditioning Time (min)	30	
Conditioning Time (min)	30	Static 2 hr Temperature (°F)	70	
Blow Out (Y/N)	Y	Inclination (deg)	90	
Test Time (min)	14.87	Initial Volume (mL)	250	
API Fluid Loss (mL/30min)	170	Free Fluid (mL)	0	
		% Free Fluid	0	
		Settling (Y/N)	Ν	

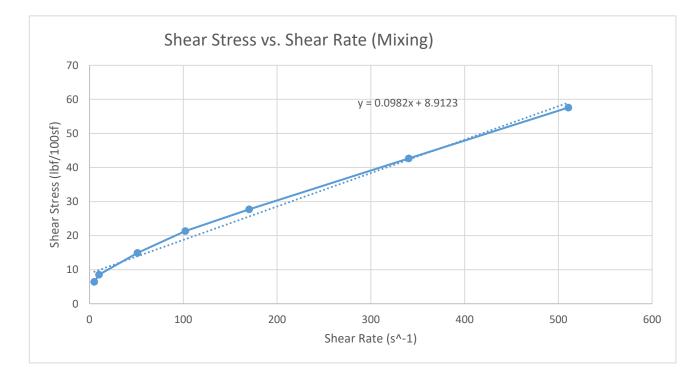
3.6

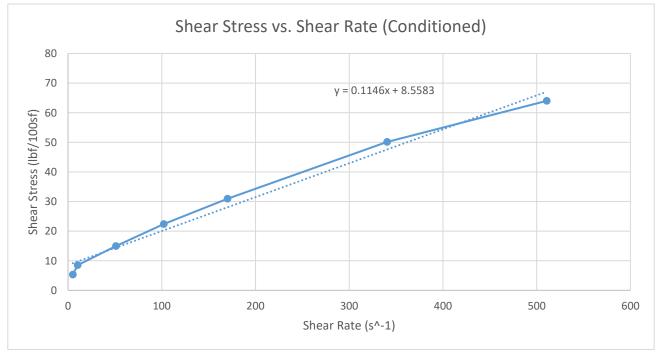
Т

Compressive Strength									
UCA Unit Number	5		Initial			Final			
Temperature (°F	:)		80			166			
Pressure (psi)		3000				3000			
Ramp Time (hr:m	m)	0:56							
Time (hr:mm)		18:27	20:42	26:06	12:00	24:00	48:00	72:00	
Compressive Strengt	h (psi)	50 100 500			0	336	874	920	
Crush Type			Ρι	ıck		Final Time:	72:55		
Time (hr:mm)		12:00 24:00 48:00 72:0			72:00	Final PSI:	920		
Average Strength (psi)			Algorithm:	Α				
Conditioning Time (min)	60	Condi	tioning Tempe	rature	166			

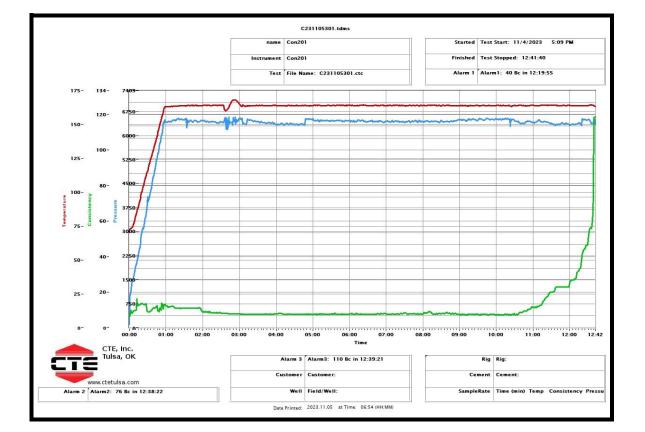


C2311053-1

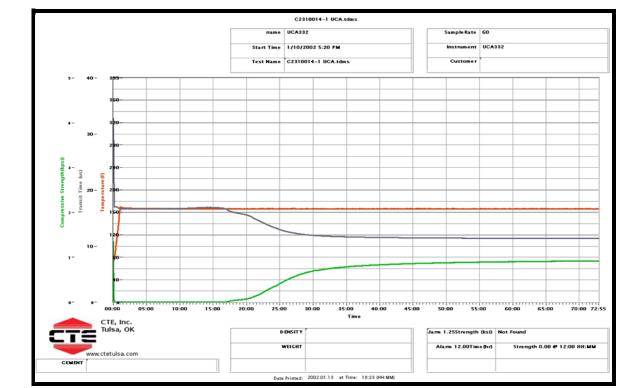




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C2311053-1
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Project No.



C2311053-1

From:	Robert Brosig
То:	JT Wilkerson; Drilling Engineering
Subject:	Fwd: [EXTERNAL] Tail slurry modification - Ameredev
Date:	Wednesday, October 25, 2023 3:25:33 PM

External (robertbrosig@dualec.com)

Report This Email FAQ Protection by INKY

Sent from my iPhone

Begin forwarded message:

From: "Morency, Allison E" <amorency@blm.gov> Date: October 25, 2023 at 2:17:39 PM CDT To: Robert Brosig <robertbrosig@dualec.com> Subject: RE: [EXTERNAL] Tail slurry modification - Ameredev

Verbal approval granted for the Tea Olive 112H as a test well.

Please check in afterwards to determine path forward and submit this email into AFMSS as a NOI APD Change sundry to ensure well file matches field operations.

Sincerely, Allison Morency Petroleum Engineer Carlsbad Field Office Bureau of Land Management 575-234-5709

-----Original Message-----From: Robert Brosig <robertbrosig@dualec.com> Sent: Wednesday, October 25, 2023 1:14 PM To: Morency, Allison E <amorency@blm.gov> Subject: [EXTERNAL] Tail slurry modification - Ameredev

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Allison,

.

Attached are lab results on a tail slurry that id like to use on the upcoming Tea Olive 112H production cement job. The density is lighter than what's permitted, so I wanted to double check with you. I will call you to discuss.



Lab Analysis Report

10013 W County Rd 157 Midland, Tx 79706

Project No.	C2311054-2		
Report Date	11/6/2023	MD	22153
Requestor	Issac Harris	TVD	11162
Analyst	MA/CJ	Test T. (°F)	166
Client	Ameredev	BHST (°F)	166
Well	Tea Olive 115H	BHCT (°F)	166
County	Lea	BHP (psi)	6400
Job	Production	Mud Weight (ppg)	11
Slurry	Tail Cement	Blend Type	Pilot

Slurry Properties						
Slurry Density (ppg) Blend Yield (ft3/sk)						
13.00	1.59					

Slurry Composition								
Component	Concentration	Unit	Lot #					
HSLD 82 H	100.000	% of Base Material	Tank G					
CSA-1000	0.070	% BWOB	2L9294W					
STE	4.000	% BWOB	5142022					
CFL-1	0.650	% BWOB	202221018					
R-1D	0.200	% BWOB	20230425					
Salt	0.500	% BWOW	72523					
GypSeal	1.000	lb/sk	90223					

Base Fluid					
Water Source Water Req. (gal/sk)					
Rig	8.01				

Comments

TT stirred for 75 mins, hesitated for 30 mins. UCA referenced from C2303302-3.

n' / K' (lbf-s^n/100ft2)

Project No.	C2311054-2
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Rheology			Thickening Time			
Temperature (°F)	80	164	HPHT Unit Number 5		Initial	Final
Pressure (psi)	0	0	Temperature (°	F)	80	166
Condition Time (min)	0	30	Pressure (psi)		1000	6400
RPM	Average	Average	Ramp Time (mii	n)	1	56
300	85	73	Consistency (BC	C)	11	70
200	65	57	Time (hr:mm)		0:01	8:26
100	40	43	Batch Mixing			
60	29	33	Mixing Time (hr:min)			
30	19	23	Temperature (°	F)		
6	6	15				
3	5	8				
10 sec gel (lbf/100ft2)						
10 min gel (lbf/100ft2)						
1 min stirring (lbf/100ft2)			7			
Rheology Model	Bingham	Bingham				
PV (cP)	80.3	61.1				
YP (lbf/100ft)	9.4	16.7				

Fluid Loss		Free Fluid		
Temperature (°F)	164	Conditioning Temp (°F)	164	
Pressure (psi)	1000	Conditioning Time (min)	30	
Conditioning Time (min)	30	Static 2 hr Temperature (°F)	70	
Blow Out (Y/N)	Ν	Inclination (deg)	45	
Test Time (min)	30	Initial Volume (mL)	250	
API Fluid Loss (mL/30min)	72	Free Fluid (mL)	0	
		% Free Fluid	0	
		Settling (Y/N)	Ν	

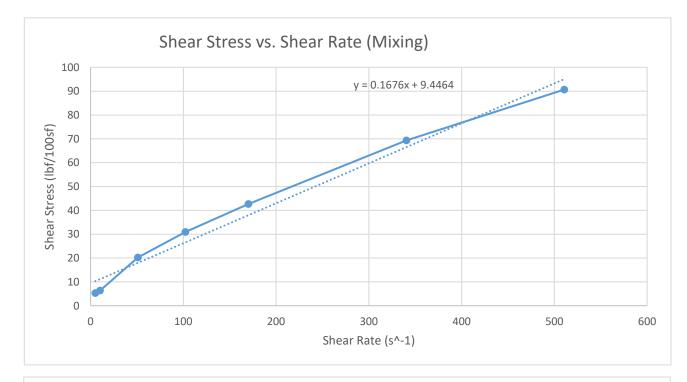
14.3

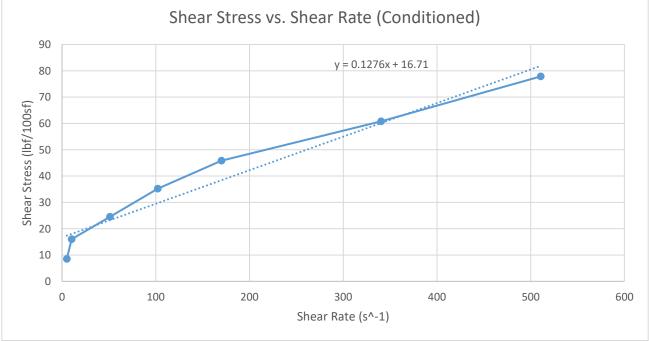
Т

Compressive Strength									
UCA Unit Number	4		Initial			Final			
Temperature (°F	-)		80			169			
Pressure (psi)		3000				3000			
Ramp Time (hr:m	m)	1:00			1:00				
Time (hr:mm)		10:31	10:55	22:12	12:00	24:00	48:00	72:00	
Compressive Strengt	h (psi)	50 100 500			202	530	762	874	
Crush Type			Ρι	ıck		Final Time:	72:22		
Time (hr:mm)		12:00 24:00 48:00 72			72:00	Final PSI:	876		
Average Strength (psi)				Algorithm:	В			
Conditioning Time (min)	60	Condi	tioning Tempe	rature	169 F			



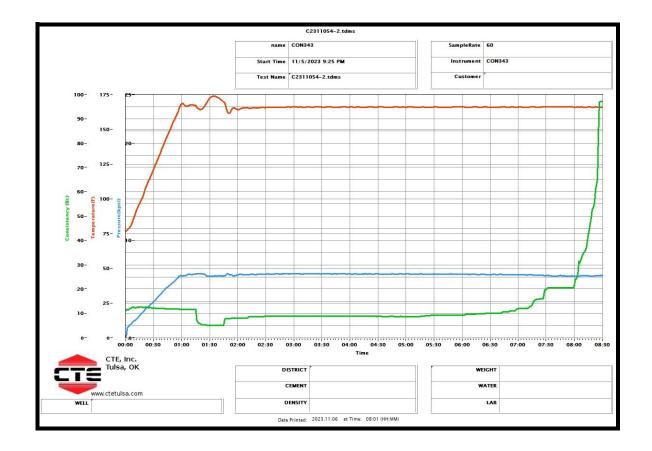
C2311054-2

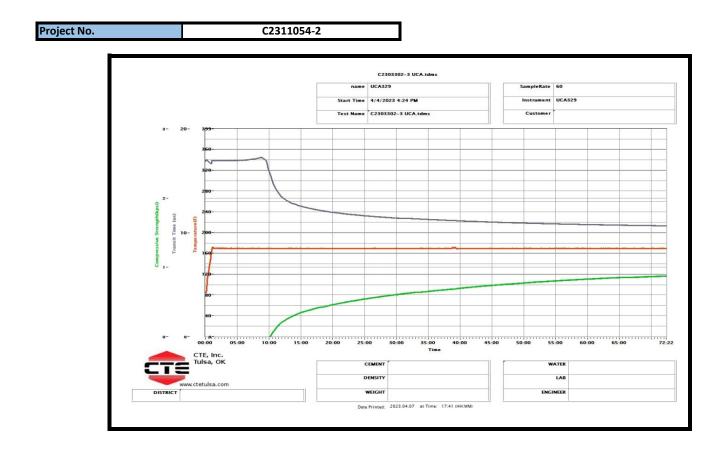




Project No.

C2311054-2







Mud-Spacer Compatibility

10013 W County Rd 157 Midland, Tx 79706

Project No.	C2311127-4		
		-	
Report Date	11/15/2023	Mud Sample #	M-373
Client	Ameredev	Requestor	Steve Stromberg
Well	Tea Olive 115H	Analyst	MA
BHCT (°F)	166		

Spacer Density (ppg)	Mud Density (ppg)
11.2	11

	Slurry Comp	osition	
Component	Concentration	Unit	Lot #
Water	27.75	gpb	N/A
Barite	173.06	ppb	Plant 1, Tank 2
CSG-1	0.2	ppb	3C0132W
CLCG-10	7	ppb	20230816
Citric Acid	0.5	ppb	11100675
Plexaid 803	2.5	gpb	202302469
Plexaid 830	1	gpb	202302997
Blending Oil	5	gpb	20230820

80°F Spacer Compatibility					
		75% Mud	50% Mud	25% Mud	
RPM	100% Mud	25% Spacer	50% Spacer	75% Spacer	100% Spacer
3	3	9	11	14	8
6	3	11	13	14	10
30	8	20	26	22	18
60	13	28	38	34	24
100	18	39	51	47	31
200	31	62	82	76	44
300	42	82	107	102	55
	Pv - 39.6 Yp - 3.9	Pv - 73.1 Yp - 12.3	Pv - 96.4 Yp - 15.8	Pv - 90.2 Yp - 15.1	Pv - 46.1 Yp - 12.6

130°F Spacer Compatibility					
		75% Mud	50% Mud	25% Mud	
RPM	100% Mud	25% Spacer	50% Spacer	75% Spacer	100% Spacer
3	3	8	8	5	9
6	3	10	10	8	11
30	7	17	20	17	19
60	10	24	28	25	24
100	14	30	37	34	30
200	22	45	57	36	42
300	27	55	72	49	50
	Pv - 24.7 Yp - 4.3	Pv - 46.8 Yp - 12.2	Pv - 63.8 Yp - 12.7	Pv - 40.1 Yp - 12.3	Pv - 40.3 Yp - 13.9

	166 °F Spacer Compatibility					
		75% Mud	50% Mud	25% Mud		
RPM	100% Mud	25% Spacer	50% Spacer	75% Spacer	100% Spacer	
3	2	5	4	4	8	
6	3	6	5	5	10	
30	6	12	13	10	16	
60	7	16	18	13	20	
100	10	20	25	17	24	
200	17	29	39	22	34	
300	21	36	51	26	42	
	Pv - 19.0	Pv - 30.5	Pv - 46.7	Pv - 21.4	Pv - 32.9	
	Yp - 3.3	Yp - 8.1	Yp - 7.0	Yp - 7.2	Yp - 11.8	

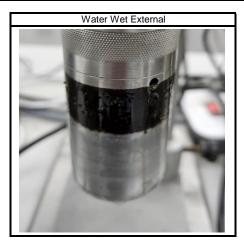
Project No.

Comments

C2311127-4

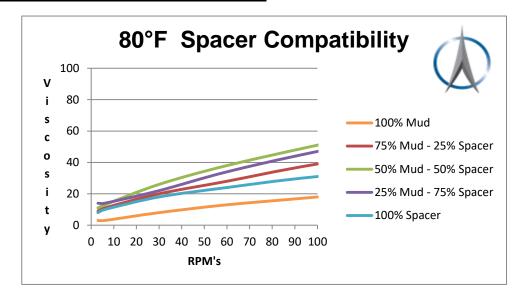
Water Wet Analysis

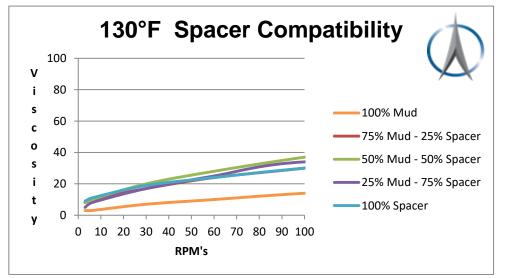
Image shows water wet rotary sleeve that had previously been spun with oil based mud at BHCT, then rinsed with spacer at BHCT for 10 minutes. Sleeve was then rinsed with water for 3 minutes.

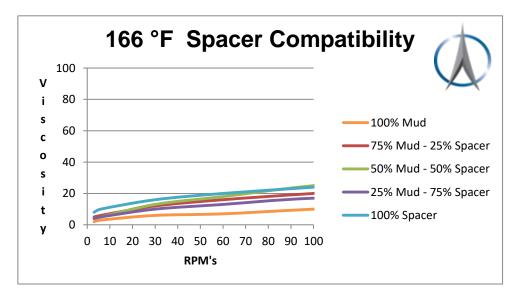




C2311127-4







Ameredev

Submitted by: Steve Stromberg 432-561-5970 11/15/2023

Prepared for: Mr. Robert Brosig Drilling Engineer



AMEREDEV - TEA OLIVE 115H -PRODUCTION - V3

Casing

Size 5 1/2

5 1/2

Ameredev - Tea Olive 115H - Production - v3

WELLBORE DETAILS

Depth (ft)

0 - 11075

11075 - 22283

Hole Size		
Size	Depth (ft)	
63/4	11075 - 22383	TMD
		TMD
	11162	TVD
	11193	КОР

Grade

RYS110

RYS110

Weight

23#

23#

Thread

BTC

Previous Casing					
Size	Depth (ft)	Grade	Weight		
7 5/8	0 - 11075	HCL-80	29.7#		

Formation

widd weight/Type	ьн тетпр		
11.0 ppg OBM	166° F	BHST	
	166° F	BHCT	



Ameredev - Tea Olive 115H - Production - v3

JOB AND FLUID DETAILS

Job Details

Pump 50 bbls of weighted spacer at 11.2 ppg w/ surfactants @ 3.25 bpm.

Mix and pump 500 sks of Lead Cement at 11.5 ppg, yielding 1325 ft^3 (235.9 bbls) @ 3.25 bpm

Mix and pump 800 sks of Tail Cement at 13.0 ppg, yielding 1272 ft^3 (226.5 bbls) @ 3.25 bpm

Shut Down, clean lines to the pit.

Drop 1250 psi rupture plug

Pump 5 bbls of sugar water per design for toe sleeve.

Shutdown, drop 3000 psi top plug.

Pump 15 bbls of sugar water per design for toe sleeve.

Continue displacing top plug with 457.3 bbls (472.3 bbls total displacement) of fresh water (actual volume determined on location)) with 2.5 gals/10 bbls OPF-445. Pump entire displacement @ 3.25 bpm, do not slow rate during displacement. Bump the plug and bring pressure 500 psi over final circulating pressure.

Check Floats, End Job.

Slurry Properties	Yield Densi		Mix Water
	(ft³/sk)	(ppg)	(gps)
Lead Cement	2.65	11.5	15.30
Tail Cement	1.59	13.0	8.01

Lead Cement Slurry - 500 sks (33%	Excess) TOC Surface
100% HSLD 94 Cement	
Salt	0.64 #/sk
C-45 Econolite	0.50 %
STE	4.00 %
Citric Acid	0.61 %
CSA-1000 - Fluid Loss Additive	0.08 %
CFL-1	0.60 %

Tail Cement Slurry - 800 sks (32% Excess) TOC 10775						
100% HSLD 82 Cement						
Salt	0.33 #/sk					
STE	4.00 %					
CSA-1000 - Fluid Loss Additive	0.07 %					
Gyp Seal	1.00 #/sk					
CFL-1	0.65 %					
R-1D	0.20 %					



Ameredev - Tea Olive 115H - Production - v3

Volume Calculations

33	Total (sks)	Volume (sks)	(ft³)	(ft³/ft Factor)	% Excess	(ft)	Slurry
Tail Cement 11308 32 0.11022 1246.37 784					33		
	500	502	1329.89	0.123	33	10775	Lead Cement
Tail Cement 300 0.093 27.84 18		784	1246.37	0.11022	32	11308	Tail Cement
	800	18	27.84	0.093		300	Tail Cement
TOTAL SLURRY VOLUME= 2604.1 ft ³		6 12					



Ameredev - Tea Olive 115H - Production - v3

COST ESTIMATE

Description	Quantity		Units	Gross Amount	Net Amount
Pump Charge 22001' to 23000'	1	\$49,595.00	each	\$49,595.00	\$13,390.65
Pump Charge - Additional Hours	-	\$2,250.00	hour	\$0.00	\$0.00
Reserve Pump Truck	1	\$11,067.00	each	\$11,067.00	\$2,988.09
Reserve Pump Truck - Additional Hours	-	\$2,250.00	hour	\$0.00	\$0.00
Batch Mixer	1	\$5,600.00	each	\$5,600.00	\$1,512.00
Batch Mixer - Additional hours	-	\$940.00	hour	\$0.00	\$0.00
HV Mileage	600	\$13.75	mile	\$8,250.00	\$2,227.50
LV Mileage	600	\$8.13	mile	\$4,878.00	\$1,317.06
Field Storage Bin delivery	400	\$13.75	mile	\$5,500.00	\$1,485.00
Field Storage Bin - 3 Days	2	\$1,970.00	each	\$3,940.00	\$1,063.80
Cementing Head Rental	2	\$2,880.00	each	\$5,760.00	\$1,555.20
Top Rubber Plug: 5 1/2"	-	\$294.00	each	\$0.00	\$0.00
Data Acquisition	1	\$1,305.00	each	\$1,305.00	\$352.35
Thickening Time Test, Field Blend	1	\$2,485.00	each	\$2,485.00	\$670.95
Diesel Fuel Surcharge	1	\$1,090.00	each	\$1,090.00	\$294.30
Engineering - Job Design - Pre-job Simulation	1	\$5,630.00	each	\$5,630.00	\$1,520.10
Derrick Charge	-	\$3,500.00	each	\$0.00	\$0.00
CSG-1	10	\$133.51	lb	\$1,335.10	\$360.48
Blending Oil (Surfactant)	250	\$31.40	gal	\$7,850.00	\$2,119.50
Barite	87	\$93.63	sack	\$8,145.81	\$2,199.37
CLCG-10	350	\$14.26	lb	\$4,991.00	\$1,347.57
Citric Acid	25	\$20.11	lb	\$502.75	\$135.74
Plexaid - 803	125	\$106.62	gal	\$13,327.50	\$3,598.43
Plexaid - 830 Surfactant	50	\$142.15	gal	\$7,107.50	\$1,919.03
Subtotal for Pumping & Equipment Charges				\$148,359.66	\$40,057.11
HSLD 94 Cement	500	\$78.28	sacks	\$39,140.00	\$10,567.80
HSLD 82 Cement	800	\$49.83	sacks	\$39,864.00	\$10,763.28
Gyp Seal	800	\$2.23	lb	\$1,784.00	\$481.68
CSA-1000 - Fluid Loss Additive	82	\$94.79	Lb	\$7,772.78	\$2,098.65
CFL-1	709	\$72.81	lb	\$51,622.29	\$13,938.02
R-1D	132	\$7.36	lb	\$971.52	\$262.31
C-45 Econolite	235	\$8.40	lb	\$1,974.00	\$532.98
STE	4,504	\$1.58	lb	\$7,116.32	\$1,921.41
Salt	584	\$1.08	lb	\$630.72	\$170.29
Citric Acid	287	\$20.11	lb	\$5,771.57	\$1,558.32

OPF-445 Inhibitor	110	\$98.72 gal	\$10,859.20	\$2,931.98
DFL-1	-	\$159.42 gal	\$0.00	\$0.00
Sugar	-	\$6.45 lb	\$0.00	\$0.00
Materials Handling	1,885	\$4.35 CF	\$8,199.75	\$2,213.93
Drayage	294,800	\$0.10 sacks x miles	\$30,659.20	\$8,277.98
Subtotal for Materials Charges			\$206,365.35	\$55,718.64
Gross Price Subtotal				\$354,725.01
Discount			73.0%	(\$258,949.26)
Pre-tax Total				\$95,775.75



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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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	298957
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	please provide estimated TOC on Production casing	2/2/2024

CONDITIONS

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Action 298957