# UIC - I - <u>5</u>

# MECHANICAL INTEGRITY TEST (MITs)



#### Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Thursday, July 26, 2018 3:08 PM
То:	'Philana Thompson'; Ryan Davis (rdavis@merrion.bz); Ryan Merrion (ryan@merrion.bz)
Cc:	Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Griswold, Jim, EMNRD; Powell,
	Brandon, EMNRD; Kuehling, Monica, EMNRD
Subject:	UICI-005 UIC Class I (NH) SUNCO Well No. 1 (API# 30-045-28653) Disposal Well Agua
	Moss, LLC MIT Chart 7-26-2018
Attachments:	2018-07-26 Sunco MIT Packet.pdf

Philana, et al.:

The New Mexico Oil Conservation Division (OCD) has completed its review of the above subject well Static Annulus MIT conducted this morning.

OCD hereby approves the MIT.

Agua Moss, LLC may **resume** operations at its earliest convenience.

Thank you for your cooperation in this matter.

Mr. Carl J. Chavez, CHMM (#13099) UIC Program Quality Assurance Officer New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505 Ph. (505) 476-3490 E-mail: <u>Carl J. Chavez@state.nm.us</u> **"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move** 

forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Philana Thompson <pthompson@merrion.bz> Sent: Thursday, July 26, 2018 11:30 AM To: Chavez, Carl J, EMNRD <Carl J.Chavez@state.nm.us> Subject: Fwd: Sunco MIT Chart

Philana Thompson Merrion Oil & Gas Sent from my iPhone

Begin forwarded message:

From: Shacie Murray <<u>shacie@merrion.bz</u>> Date: July 26, 2018 at 11:14:54 AM MDT To: Philana Thompson <<u>pthompson@merrion.bz</u>> Subject: Sunco MIT Chart

Attached.

Shacie Murray

Merrion Oil & Gas Production Engineer (505) 330-7605 <u>shacie@merrion.bz</u>



# JADE SALES & SERVICE, INC.

(505) 325-6173

CONTENT AND METER REPORT

GAS			CTL NO				
FROM		6	SIA NO.				
LEASE MER	RIDI	1 JIL+C	SAS SYSTEM				
LEGAL			GAS				
DESCR.			TO				
DATE 1/2	- 100	TIME	006	EFFECTIV	VE 1	1	
OF TEST //2	5/18	OF TEST	0000	DATE	11	251	18
METER DAT	ΓA	RECORE	DER DATA		AP CALI	BRATION	
TYPE FLG CONNECTION O	PIPE		FLOW COMPUTER	APP D W	ATMOS D W	FOUND	LEFT
METER TUBE SIZE	1 1	RECORDER S/N OR MEG	ARTON	0			0
ORIFICE		5/N-20	ZA-195391	400			400
ORIFICE REMOVED -		STATIC RANGE 200	20#	INDI	0		INNO
ORIFICE S/N		TEMP RANGE		1600	2		1/200
AV DIFF		AV STATIC		PON	)		2000
SAMPLE YES	NO	TYPE CHECK	SETTLE ORIFICE	an			and
		TEST		0			0
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2							
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1251 0	OURC	E. DE	177		TE	MP CALIBRATI	ON
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LEKIPI	ALL	II MIL	. 5766	118			
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# Certificate of Calibration

### 13197

Page 2 of 2

# MEASUREMENT

Range Stated	: 0 to 300	0 PSIG (HP Transducer	)	Standard :	PM600-A20M
Stated P	Accuracy :   +/- 0.02	5% of Full Scale		Serial No.:	3247007

0.00	0.0	Left, As Found	-0.4	0.4
3000.00	2999.6	Left, As Found	2999.2	3000.8
2700.00	2699.7	Left As Found	2699.2	2700.8
2400.00	2399.7	Left As Found	2000.2	2100.0
2100.00	2099 7	Left As Found	2000.2	2400.8
1800.00	1700.0	Loft As Found	2099.2	2100.8
1500.00	1500.0	Leit, As Found	1/99.2	1800.8
1000.00	1500.0	Left, As Found	1499.2	1500.8
1200.00	1199.9	Left, As Found	1199.2	1200.8
900.00	900.0	Left, As Found	899.2	900.8
600.00	600.0	Left As Found	500.2	600.8
300.00	300.0	Left As Found	200.2	200.8
0.00	0.0	Left, As Found	-0.4	0.4
	3000.00 2700.00 2400.00 2100.00 1800.00 1500.00 1200.00 900.00 600.00 300.00 0.00	0.00         0.0           3000.00         2999.6           2700.00         2699.7           2400.00         2399.7           2100.00         2099.7           1800.00         1799.9           1500.00         1500.0           1200.00         900.0           600.00         600.0           300.00         300.0           0.00         0.0	0.00         0.0         Left, As Found           3000.00         2999.6         Left, As Found           2700.00         2699.7         Left, As Found           2400.00         2399.7         Left, As Found           2100.00         2099.7         Left, As Found           1800.00         1799.9         Left, As Found           1500.00         1500.0         Left, As Found           1200.00         199.9         Left, As Found           100.00         1199.9         Left, As Found           100.00         1199.9         Left, As Found           100.00         100.0         Left, As Found           100.00         0.0         Left, As Found           000.00         900.0         Left, As Found           000.00         600.0         Left, As Found           0.00         0.0         Left, As Found	0.00         0.0         Left, As Found         -0.4           3000.00         2999.6         Left, As Found         2999.2           2700.00         2699.7         Left, As Found         2699.2           2400.00         2399.7         Left, As Found         2399.2           2100.00         2099.7         Left, As Found         2099.2           1800.00         1799.9         Left, As Found         1799.2           1500.00         1500.0         Left, As Found         1499.2           200.00         900.0         Left, As Found         1499.2           300.00         1199.9         Left, As Found         199.2           300.00         300.0         Left, As Found         299.2           0.00         600.0         Left, As Found         299.2           0.00         600.0         Left, As Found         299.2           0.00         0.0         Left, As Found         299.2           0.00         0.0         Left, As Found         299.2

Range	0 to 20 Volto DC		
Stated Acourses		Standard :	M3001
Stated Accuracy	+/- 0.015% of Reading + 0.002V	Serial No .:	9499092

Step	Reference's Indicated Value	As Found Calibrator's Reading	As Left Calibrator's Reading	Acceptance Minimum	Limits Maximum
1	0.000	0.000	Left, As Found	-0.002	0.002
2	15.000	15.000	Left, As Found	14 996	15 004
3	30.000	30.000	Left, As Found	29.993	30.007

Range	: 4 to 20 r	mA DC Current		Standard :	M3001
Stated /	Accuracy : +/- 0.01	5% of Reading + 0.002m	A	Serial No.:	9499092
Step	Reference's Indicated Value	As Found Calibrator's Reading	As Left Calibrator's Reading	Acceptance Minimum	Limits Maximum
1	4.000	FAILED	Left. As Found	3 997	4 003
2	12.000	FAILED	Left, As Found	11,996	12 004
3	20.000	FAILED	Left, As Found	19.995	20.005

Range	: 25° Fah	renheit to 200° Fahrenhe	eit	Standard	RTD-100
Stated Acc	curacy : +/- 0.2°	F (0.1°C)		Serial No.:	2915
Step	Reference's Indicated Value	As Found Calibrator's Reading	As Left Calibrator's Reading	Acceptance Minimum	Limits Maximum
1	25.00	*24.71	25.05	24.80	25.20
2	100.00	*99.6	100.04	99.80	100.20
_					100.20

ÎN E	201			Certificate (	of Calibration
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MEAS	UREMENT			]	TO TO
an a	Construction and Source and Source and	Cus	tomer Information		Page 1 of
Jade Sale	s & Service			Tech	v. Adrian Volordo
5240 Hwy	64			PO #	
Farmingto	n, NM 87401			Account #	t ISS-115
S Mart Calena — age	an a	Instru	iment Identification		
	Description: Digital Pre	ssure Calibrator			
M	lanufacture: Beta Calib	rators		Model: 321	
	Accuracy: Manufactu	rer's Specifications		Serial #: 9622076	
		Certif	fication Information	an a	
Reason F	For Service: Maintenan	ice of Accuracy		Attested By	r. Start In
Type Of	Calibration: Pneumatic	: Gauge		Technician	: Steve Olsen
As Found	d Condition: Out of Tol	erance (RTD)		Cal Date	e: 26-Mar-2018
As Lef	t Condition: In Toleran	ce (All)		Cal Due	: 26-Mar-2019
	Procedure: Mfr's 1000	55-3		Temperature	: 23 +/- 3.0° C
Technicia	n Remarks: Previous o	alibration by JM Test or	n 08/25/2015	Relative Humidity	r: 20% - 60%
This instrum	tent has been calibrated using	standards with accuracion to a	able to the National Institute of S	Standards and Technology	derived from
natural phy. MESA MEA & ISO/IEC 1	sical constants, derived from ra SUREMENT's calibrations, as 17025 Quality Standards.	applicable, are performed in co	d consensus standards.	of ANSUNCSL Z540-1-1994	, ISO 10012-1
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#### Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Thursday, July 12, 2018 4:58 PM
То:	Ryan Merrion (ryan@merrion.bz); Ryan Davis (rdavis@merrion.bz);
	'pthompson@merrion.bz'
Cc:	Sanchez, Daniel J., EMNRD; Griswold, Jim, EMNRD; Goetze, Phillip, EMNRD; Powell,
	Brandon, EMNRD; Kuehling, Monica, EMNRD
Subject:	UIC Class I (NH) SUNCO Well No. 1 (API# 30-045-28653) Disposal Well (UICI-005) C-103
-	Form Dated by Operator 6/14/2018 and Approved by OCD with Conditions June 21,
	2018

Ladies and Gentlemen:

The New Mexico Oil Conservation Division (OCD) has received and reviewed all requested information associated with the above subject temperature survey run by Blue Jet, Inc. on June 26, 2018.

OCD concurs with Merrion Oil & Gas (Operator) and Blue Jet, Inc.'s Temperature Survey (survey) findings and conclusions, which confirm fluid injection is into the Pt. Lookout Formation. The survey did not detect any anomalous temperature fluxes above the injection zone beyond an established temperature gradient during four temperature survey runs.

OCD hereby directs the Operator to comply with the remainder of the OCD approved C-103 Form with Conditions from June 21, 2018.

Please contact Monica Kuehling (Aztec District Office) to schedule the witnessing of the first and consecutive (contingent of availability) Annulus Pressure Tests (30 min.) under static well conditions. Monica will communicate on the chart recorder (include copy of chart recorder calibration sheet with calibration performed less than 3 months from date of MIT), clock speed (function of chart time), spring (spring weight is a function of test pressure), and chart (4-hr. or less) with chart test information (i.e., test type, date, start pressure, end pressure, and witness signatures).

Upon conclusion of the MIT, and within 5 business days, the original MIT chart shall be sent to Carl Chavez (<u>CarlJ.Chavez@state.nm.us</u>) in Santa Fe with a copy to OCD Aztec in order for OCD Santa Fe to issue the final "pass/fail" (Generally +/-10% Pressure Differential) determination.

OCD thanks everyone involved for their cooperation and professionalism in this matter.

Please contact me if you have questions.

Respectfully,

Mr. Carl J. Chavez, CHMM (#13099) UIC Program Quality Assurance Officer New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505 Ph. (505) 476-3490 E-mail: <u>Carl J.Chavez@state.nm.us</u> "Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Ryan Merrion <ryan@merrion.bz>
Sent: Tuesday, July 10, 2018 3:42 PM
To: Chavez, Carl J, EMNRD <Carl J.Chavez@state.nm.us>
Subject: Fwd: Agua Moss Sunco Well Mtg.(UICI-5) C-103 Form Dated by Operator 6/14/2018

# **Ryan Merrion**

**Production Engineer** 



ryan@merrion.bz (303) 653-2231

------ Forwarded message ------From: **Danny Seip** <<u>dseip@bluejetinc.com</u>> Date: Tue, Jul 3, 2018 at 12:58 PM Subject: RE: Agua Moss Sunco Well Mtg.(UICI-5) C-103 Form Dated by Operator 6/14/2018 To: Ryan Merrion <<u>ryan@merrion.bz</u>>, Ryan Davis <<u>rdavis@merrion.bz</u>>, <u>daniel.sanchez@state.nm.us</u>, Jim.Griswold@state.nm.us, Phillip.Goetze@state.nm.us, Jeff Davis <<u>jdaguamoss@hotmail.com</u>>, Philana Thompson <<u>pthompson@merrion.bz</u>>, Shacie Murray <<u>shacie@merrion.bz</u>>, <u>charlie.perrin@state.nm.us</u> Cc: <u>dseip@bluejetinc.com</u>

Hello All,

#### 06/26/2018,

RU Wireline, Crane and Grease injection system- Tubing: 1500 psig. Casing: 850 psig. RIH will 1-7/16" Digital Temp tool and CCL logging from 700' to T.D. (4509') BASE TEMP LOG. The base log showed a natural gradient from 700' to the packer. Just below the packer a significant decrease in temp through the zone of injection. Temp tool was then placed at 4200' while 100 bbls of fluid was pumped waiting for 1:20 minutes after pumping the 1<sup>st</sup> down pass (TEMP PASS 1) was logged, 4200-4509' recording lower temperatures from 4200- 4509 approximately 29 degrees. After a down time of 30 minutes the 2<sup>nd</sup> down pass (TEMP PASS 2) was recorded from 4200-4509, at 4200 the temperature had increased about 4 degrees from pass 1 at 4270' the temperatures of both pass we the same temperature indicating fluid entry into the zone of interest due to the slow recovery of temperature over time. we then logged from 4509' to 65' confirming after a time of 2-1/2 hrs the all temperature's above the Pt. Lookout had return to natural gradient.

With all of this information at hand it definitely confirms fluid injection into the Pt. Lookout formation.

#### Thank you,

Danny L. Seip

President / CEO

Blue Jet, Inc.

700 East Murray Dr.

Farmington, New Mexico, 87401

Cell: 505-320-0172

Off: 505-325-5584

Email: dseip@bluejetinc.com

From: Ryan Merrion [mailto:ryan@merrion.bz]
Sent: Tuesday, July 03, 2018 12:08 PM
To: Danny Seip
Subject: Fwd: Agua Moss Sunco Well Mtg.(UICI-5) C-103 Form Dated by Operator 6/14/2018

Danny,

As per the NMOCD's request, can you please provide your observations and conclusions for the Sunco 1 temperature survey.

Thanks,

# **Ryan Merrion**

**Production Engineer** 



ryan@merrion.bz

(303) 653-2231

Ryan, et al.:

The New Mexico Oil Conservation Division UIC Director Daniel Sanchez is requiring a third-party review of the temperature log with observations with conclusions by Blue Jet<sup>™</sup>.

Please submit at your earliest convenience.

Thank you for your cooperation in this matter.

Mr. Carl J. Chavez, CHMM (#13099)

New Mexico Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St Francis Drive

Santa Fe, New Mexico 87505

Ph. (505) 476-3490

E-mail: CarlJ.Chavez@state.nm.us

"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Ryan Merrion <<u>ryan@merrion.bz</u>> Sent: Tuesday, July 3, 2018 11:45 AM

To: Chavez, Carl J, EMNRD <<u>CarlJ.Chavez@state.nm.us</u>> Cc: Ryan Davis <<u>rdavis@merrion.bz</u>>; Sanchez, Daniel J., EMNRD <<u>daniel.sanchez@state.nm.us</u>>; Griswold, Jim, EMNRD <<u>Jim.Griswold@state.nm.us</u>>; Goetze, Phillip, EMNRD <<u>Phillip.Goetze@state.nm.us</u>>; Jeff Davis <<u>idaguamoss@hotmail.com</u>>; Philana Thompson <<u>pthompson@merrion.bz</u>>; Shacie Murray <<u>shacie@merrion.bz</u>>; Perrin, Charlie, EMNRD <<u>charlie.perrin@state.nm.us</u>> Subject: Re: Agua Moss Sunco Well Mtg.(UICI-5) C-103 Form Dated by Operator 6/14/2018

Please see the attached logs which show the temperature survey above 700'.

Thanks,

# **Ryan Merrion**

#### Production Engineer



ryan@merrion.bz

(303) 653-2231

On Wed, Jun 27, 2018 at 4:01 PM, Chavez, Carl J, EMNRD <<u>CarlJ.Chavez@state.nm.us</u>> wrote:

Ryan:

The New Mexico Oil Conservation Division is in receipt of the survey results and will respond soon.

Thank you.

Mr. Carl J. Chavez, CHMM (#13099)

**UIC Program Quality Assurance Officer** 

New Mexico Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St Francis Drive

Santa Fe, New Mexico 87505

Ph. (505) 476-3490

E-mail: CarlJ.Chavez@state.nm.us

"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: <u>http://www.emnrd.state.nm.us/OCD</u> and see "Publications")

From: Ryan Merrion <ryan@merrion.bz>
Sent: Wednesday, June 27, 2018 2:36 PM
To: Chavez, Carl J, EMNRD <<u>Carl J.Chavez@state.nm.us</u>>
Cc: Ryan Davis <rdavis@merrion.bz>; Sanchez, Daniel J., EMNRD <<u>daniel.sanchez@state.nm.us</u>>; Griswold, Jim, EMNRD
<<u>Jim.Griswold@state.nm.us</u>>; Goetze, Phillip, EMNRD <<u>Phillip.Goetze@state.nm.us</u>>; Jeff Davis
<<u>idaguamoss@hotmail.com</u>>; Philana Thompson <<u>pthompson@merrion.bz</u>>; Shacie Murray <<u>shacie@merrion.bz</u>>;
Perrin, Charlie, EMNRD <<u>charlie.perrin@state.nm.us</u>>
Subject: Re: Agua Moss Sunco Well Mtg.(UICI-5) C-103 Form Dated by Operator 6/14/2018

Carl, et al,

Philana is out of the office today, but I wanted to get the temperature survey results to you. Please see the report below:

06/22/2018

Tubing: 0 psig. Casing: 825 psig. Rig up Tefteller slickline. RIH with a spear and equalized tubing plug. Tubing pressure increased to 1475 psig. RIH with an overshot and retrieved tubing plug at 4,460'. Shut in tubing and rigged down Tefteller.

#### 06/26/2018

Tubing: 1500 psig. Casing: 850 psig. RU BlueJet Inc wireline. RIH with base temperature log and surveyed from 700' KB to 4506' KB. Pulled logging tools up to 3,989' KB. Injected 100 bbls of water down tubing at 75 bbl/hr. Please see the following table:

Tubing	Casing	
(psig)	(psig)	Time
1700	850	9:04 AM
1800	775	9:15 AM
1825	500	9:30 AM
1900	420	10:00 AM
1920	410	10:25 AM

Temperature at the tool depth decreased from 128 deg F to 86 deg F during injection. After injecting fluid, two log runs were made from 4200'KB to 4506'KB. The timeframe for these log intervals was 30 minutes and 1:20 minutes after injecting fluid. The final temperature survey was completed coming out of hole. Tubing was shut in and wireline rigged down. Final casing pressure was 800 psig.

Log Interpretation:

The baseline temperature survey (TEMP) shows a normal temperature gradient from surface down to the packer. Below the packer, temperature significantly decreases around the interval of injection. TEMP Pass #2 and #3 were ran 30 minutes and 1:20 minutes after injecting 100 bbls of fluid. Both temperature curves converge and maintain temperature at the perforation interval 4,350'-4,460'. Thermal warming effects take place above the injection interval as time progresses. No major anomalies off temperature gradient were noticed above the packer. From these temperature survey results, Agua Moss believes injection is still maintained within the Pt. Lookout formation. Please see attached.

Please let me know if you have any questions.

Thanks,

### **Ryan Merrion**

**Production Engineer** 



#### ryan@merrion.bz

(303) 653-2231



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PERFORA			7/16" DIG FIN	ITAL T	EMP T(	
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (Ib
CCL	3.00		CCL-SPCL (SPCL1)	1.35	1.69	10.00

			1 11/16" Logging CCL	
TEMP	0.17		TEMP-Comprobe (FW1302-005) 2.30 1.44 Comprobe Temperature Tool	4.00
		Dataset: Total length: Total weight: O.D.:	merrionsunco#1swdtemp.db: field/well/run1/pass2.C 3.65 ft 14.00 lb 1.69 in	







![](_page_20_Figure_0.jpeg)

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![](_page_40_Figure_0.jpeg)

![](_page_41_Figure_0.jpeg)

Database File Dataset Pathname Presentation Format Dataset Creation Charted by		merrionsunco pass2.B temp Tue Jun 26 13 Depth in Feet	#1swdtemp.dk 3:29:59 2018 scaled 1:240	0		
9	CCL	-1	Ļ	50	TEMP (degF)	200
<b>50</b> 0	LTEN (lb)	1000	-	-5	DTMP (degF)	5
			Į	50	TEMP2 (degF)	200
			Ę	50	TEMP3 (degF)	200

![](_page_42_Figure_0.jpeg)

![](_page_43_Figure_0.jpeg)

				Calibration	Report			
	Database File	merrionsun	co#1swdtemp.db		-			
	Dataset Pathname	pass2.C						
	Dataset Creation Tue Jun 26 13:38:22 2018							
			Tempe	erature Cali	bration Report			
ľ			Serial Number:		FW1302-005			
			Tool Model		Comprobe			
			Performed:		Thu Aug 25 1	0:11:23 201	6	
		Point #	Reading		F	Reference		
		1	723 97	cos	-	70.00	deaF	
		2	1134 76	cps		118 00	degF	
		3	1726 70	cps		174.00	degF	
		4	1120.10	cps		11 1.00	degF	
		5		cps			degF	
		6		cps			degF	
		7		cps			degF	
		8		CDS			deaF	

cps
cps

degF degF

9 10