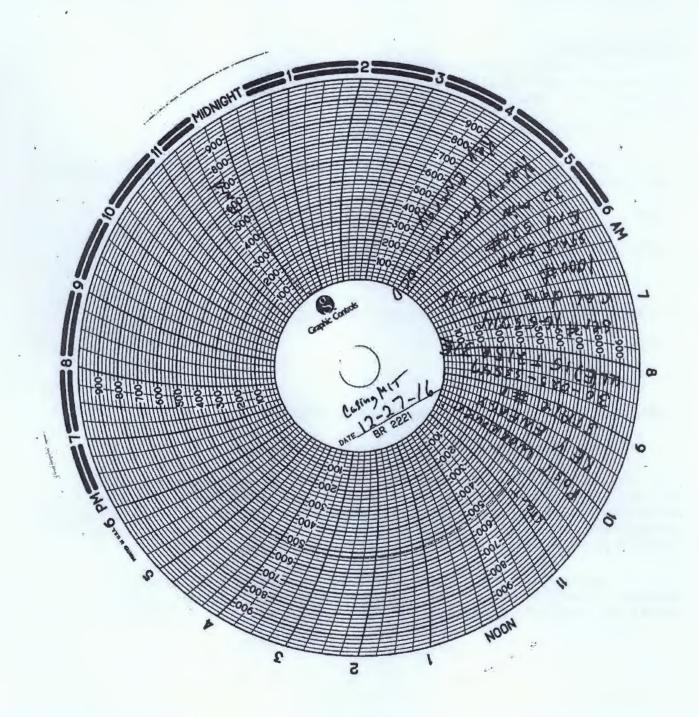
BW - 28

# MECHANICAL INTEGRITY TEST (MITs)

Submit 1 Copy To Appropriate District	State of New Mexic	0		Form C-103
Office District 1 - (575) 393-6161	Energy, Minerals and Natural	Resources	ELL API NO.	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283			30-025-	225/7
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DI	15.	Indicate Type of	
District III - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis	Dr.	STATE W	FEE
District IV - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 8750	6.	State Oil & Gas Lo	ease No.
87505			28411	
(DO NOT USE THIS FORM FOR PROPOS. DIFFERENT RESERVOIR. USE "APPLIC.	CES AND REPORTS ON WELLS ALS TO DRILL OR TO DEEPEN OR PLUG B ATION FOR PERMIT' (FORM C-101) FOR S	BACK TO A	Lease Name or Un State S	it Agreement Name
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well Other	8.	Well Number 00	11
2. Name of Operator	JAS THOSE CONTRACTOR OF THE PROPERTY OF THE PR	9.	OGRID Number	<i>J</i> 1
Key Energy	Services, LLC.			
3. Address of Operator	•	10	. Pool name or Wil	ldcat
1301 McKinney St., St.	e. 1800, Houston, TX. 77010			
Unit Letter F. : 1	340 feet from the North	line and 330	feet from th	e West line
Section 15	Township 215 Range	***************************************	the state of the s	ounty Lea
ALEMAN AND THE STATE OF THE STA	11. Elevation (Show whether DR, RK			
	GL Elevation 3458			
12 Charles	ppropriate Box to Indicate Natur	es of Notice Dan	ort or Other De	
12. Check A	ppropriate Box to indicate Natu	re of Nonce, Kep	of or Other Da	EA .
NOTICE OF INT	ENTION TO:	SUBSE	QUENT REPO	RT OF:
PERFORM REMEDIAL WORK	The state of the s	EMEDIAL WORK		TERING CASING
TEMPORARILY ABANDON		DMMENCE DRILLIN		ND A
PULL OR ALTER CASING	MULTIPLE COMPL CA	ASING/CEMENT JO	В	
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM				
OTHER:		THER: Casing N	AIT.	10
<ol><li>Describe proposed or comple</li></ol>	ted operations. (Clearly state all perti-	nent details, and giv	e pertinent dates, in	cluding estimated date
of starting any proposed work	k). SEE RULE 19.15.7.14 NMAC. F	or Multiple Comple	tions: Attach wellb	ore diagram of
proposed completion or recor	apietioa.			
OCD	in that You because to account		haut Navambar	20 -62046 0
	tion test, Key began to pressure			
	psi on casing. 12/2 OCD Fortner			
	5/16 OCD orders well to be shut CD requires packer to be set with			
	out. Passed test on 12/27 520 p			
3	and completed on 12/29/16 with			
Put well back on produ		n tubing and bit s	et at approxima	tely 1649".
Fut well back on produ	cuon.			
Attachments: Workov	er log, pressure test chart and O	CD communication	on.	
			h	
Snud Date: 12/19/16	nia nata ana	12/29/16		
Spud Date: 12/19/16	Rig Release Date:			
I hereby certify that the information ab	ove is true and complete to the best of	f my knowledge and	belief	
	and the same of th	The same of the same		
11/1/1/1/	7 1100	1105		
SIGNATURE TOWN TOWN	TITLE VP Q	HZE	DATE_	
Type or print name LEN HOUST	ON Remail address: 4	housto De Keyenen	Keon- PHONE	
For State Use Only	D-mail address.		PHUNE	
	10			
APPROVED BY: Kul 1	MITLE Environ	muntel Engi	DATE_	4/4/2017
Conditions of Approval (if any):	7		14	

	State S MIT Doc 2016 and Po onto					
	State S MIT Dec 2016 and Re-entry.		-			
	Attachment for C-103 API# 30-025-33547		-			
	On behalf of Ken Energy, Price LLC reviewed the work	lickets and t	he folio	owing is a descri	ption of work	-
	performed on the well and was also reviewed by the K					
		· · · · · · · · · · · · · · · · · · ·				
		JTs out and in		avg tub length	Est depth'	
*Dec 19, 2016	MIRU, install BOP, POH 53 jts 2-7/8' Tubing	53	out	32.26'	1710	
	Talley, PU Pkr, RiH with 41 jts 2-7/8" Tubing set PKR @ 1258' RU pump	41	in	30.681		
"Dec 20, 2016	truck-started Mit Test-BOP Leaked, correct leak, retest held; POH 40 jts				30.68'	
		40	out		30.00	
	PU Bit-7.5" 10ft 2-7/8" mill string RIH with 43 jts RU swivel clean to					
"Dec 21, 2016	1330'. RD swivel, POH 43 joints and lay down tubing, bit amd mill string. PU pkr RiH 41 Jts; PKR wouldnot go thru; POH.				1-	
		43	lin		1330'	
		43	out		0	
		41	in		1257'	
Dec 22, 2016	PU string mill, RiH 43 jts 2-7/8", Clean to 1320'; LD swivel, pull 4 jts, SION.					
		43	in		1197'	Land Land
Dec 23, 2016	RiH 4 jts 2-7/8" RU Swivel, clean to 1330'; Lay dw swivel, POH 43 jts-2-7/8", lay down string mill;PU packer Rih 41 jts, set pkr at approx 3162'-PU Operator log probably transposed numbers, should have been 1302'. Pressure tested casing held. Special Note: Original C-103 OCT96 showed that 1344' of 8-5/8" casing was ran and comented to surface. C 105 Oct 96 show 8-5/8" casing depth 1360'-	43			1830*	
		43	out		0	
		41	in		1257'-1312'	depending on pipe tall
Dec 27, 2016	Installed Chart, casing test pressure to 520# for 30 mln, witness by KFortner CCD-chart sent to CCD, Rel pkr PCH 41 fts, lay down pipe, PU Bit and RiH 45 fts; Bit would not go thru; RU Swivel, bit still would not go thru; PCH, walt on new bit, PU new bit RIH45 jts started cleaning, 30ft, pull 5 jts out; SION	41	out	-	C	
		45	in		1380'	
		45	out	1	0	
		45 5	in out		1410'	
Dec 28, 2016	RiH with a total of 44 jts and bit ;RU Swivel, clean hole down to 1710', total of 53 jts back in Hole with bit. Circl hole, lay down Swivel;SION.					
		45			1380'	4
		53	-		1710' with bit	
Dec 29, 2016	Lay dw 2 jts, ND BOP & Spool, NUWH, Tubing with bit at 1649'	51	-		1649 w Bit	
			-			



From:

Chavez, Carl J, EMNRD

Sent:

Wednesday, February 15, 2017 7:28 AM

To: Subject: 'Wayne Price'
RE: Key Brine Well

Wayne:

Yes, Key is in compliance. The charts should be behind recent C-103 Forms in the well file. Sometimes the records clerk is behind schedule in entering information. If you can't find the chart for BW-28, contact Lupe Sherman at (505) 476-3461.

----Original Message----

From: Wayne Price [mailto:wayneprice77@earthlink.net]

Sent: Tuesday, February 14, 2017 5:59 PM

To: Chavez, Carl J, EMNRD < Carl J. Chavez@state.nm.us>

Cc: Wayne Price <wayneprice77@earthlink.net>

Subject: Re: Key Brine Well

Carl thanks for the precise documentation. I was looking in the well file and didn't see the chart, I will look again in both well file and permit file?

Thanks.

So, bottom line, they are Ok to produce brine, is that correct?

- > On Feb 14, 2017, at 5:23 PM, Chavez, Carl J, EMNRD < Carl J. Chavez@state.nm.us> wrote:
- > Wayne:
- 44.
- >
- > According to my notes:
- >
- > BW-28 (Key Energy Services, L.L.C. State Well #1 API# 30-025-33547): >
- > 0 Carl on 11/30 contacted Teresa Boone regarding the status of the MIT.
- > o Carl on 12/1 responded to Maxey and Mark's call regarding lack of pressure buildup for cavern MIT. Since Monday, the Op. has been filling mature cavern with P on Weds. at 210 psi and on Thurs. 280 psi, but not building anymore today. Op. could have fractured cavern today? OCD Hobbs will see tomorrow if the pressure decreased overnight. If the MIT fails (+/- 1%), reschedule the MIT in 2 wks. to allow cavern to heal and reduce pressure to 250 psi, for test to see what happens. The MIT will likely be conducted on 12/2.
- > o Carl on 12/2 received a call from Maxey B at ~8:45 am informing him that Mr. Kerry Fortner (OCD Hobbs) at (575) 399-3221 was on location for Cavern MIT and the well bled off pressure overnight from ~290 to 240 psi for start of MIT. Carl indicated to Kerry that the cavern fractured Thurs. at ~280 psi when pressure

stopped building. OCD needs to reschedule on a cavern MIT when the salt fracture heals. Waylon Jackson (Key) at (832) 846-2089 or e-mail: jjackson05@keyenergy.com called ~ 9 a.m., Key will run the MIT at 240 psi for their own knowledge, and reschedule the MIT. Since their std. operating pressure does not exceed 150 psi (well below OCD's MSIP or new recent calculation of 323 psi (w/o factor of safety)), OCD allowed Key to continue operating. Kerry agreed with the approach. It appears that the salt cavern fractures at ~ 280 psi.

- > o Carl, Jim and Maxey communicated on 12/15 about the MIT schedule. Jim after discussion of the situation with Director Catanach, indicated the Director ordered the well to be shut-in immediately. Jim communicated to Key via telephone on same day that Key is to shut-in the brine well immediately and that he is to be e-mailed today that the well has been shut-in. Ken Houston (Key) at 713-757-5512 or E-mail: KHouston@keyenergy.com w/ copy to Jackson, Jerry <jjackson05@keyenergy.com>; Coligan, Maren <mcoligan@keyenergy.com>; Aqueron, Rene <raqueron@keyenergy.com> confirmed via e-mail on same date at 15:48 that the well was shut-in. Also, no water is being injected and no brine produced from the cavern. Key will resume contact with the area OCD office to provide notice prior to performing the casing MIT. Carl updated the admin. record.
- > o Carl, Jim, Daniel and Phil responded to Mark Whitaker's (Hobbs DO) phone call at 15:35 regarding packer setting > than 100 ft. to casing shoe. Jim wants Key to get within 50 ft. of shoe because Rustler may contain fresh water or call back.
- > o Carl received a phone msg. on 12/30 at 13:13 from Waylon Jackson (Key Energy Services) at 832-846-2089. He indicated in his phone msg. that the well had passed the casing MIT. Carl on 1/3 verified thru RBDMS that the Casing MIT was witnessed by Kerry Fortner and passed on 12/27/16. Director Catanach instructed Carl to allow the brine well to resume operations, but OCD was still assessing the pressure up problem from 12/2, and may require additional info./testing. Carl sent the communique to K Houston, J Jackson, and T Boone via e-mail with copy to OCD Hobbs. Carl updated the admin. record.
- > 0 Carl on 1/10 received the C-103, original chart, and calibration sheet for the casing MIT completed on 12/27/16 from the operator. Carl checked with Jim on the final approval signature and any COAs based on circumstances associated with OCD's MIT requirements for the well. Jim called Mark Whitaker, Jim and Mark want a COA requiring an official Cavern MIT (pursuant to the Casing MIT pass on 12/27/16) for 4 hrs. with Chart (500 lb. Spring) to max test pressure of 200 psi, calibrated chart recorder (within past 90 days), calibrations sheet. Carl issued paperwork to Jerry Jackson of Key Energy Services, LLC on the same day. Carl updated the admin. record.
- > o Carl on 2/7 received and reviewed the Cavern MIT performed on 2/2/17. The MIT passed at 223 psi start and end pressure. Carl signed C-103 Form approval and scanned chart with calibration sheet into the admin. record.
- > Thank you.

>

>

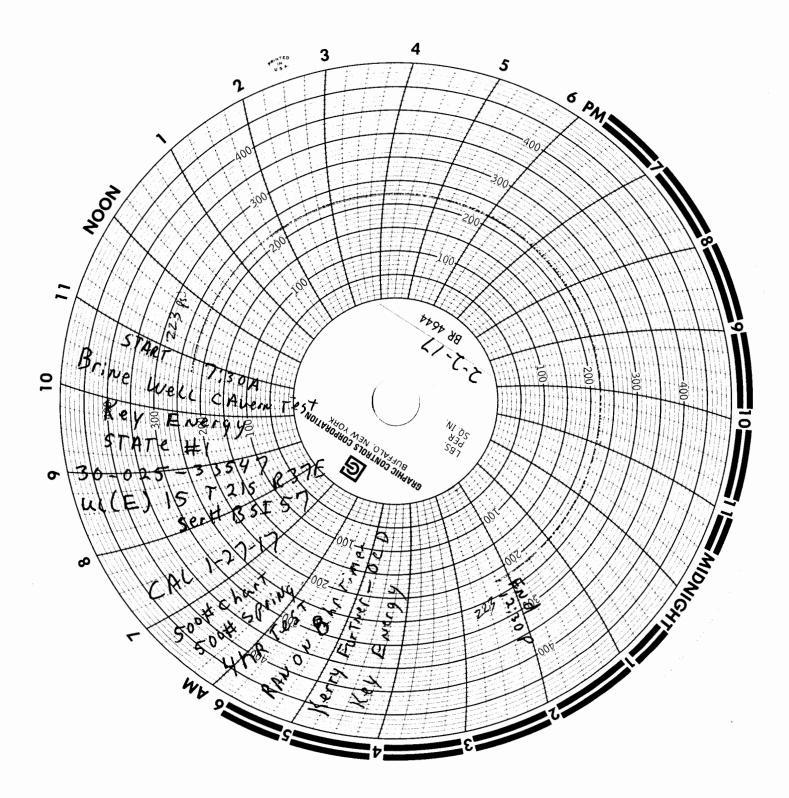
>

- > ----Original Message----
- > From: Wayne Price [mailto:wayneprice77@earthlink.net]
- > Sent: Tuesday, February 14, 2017 9:01 AM
- > To: Chavez, Carl J, EMNRD < Carl J. Chavez@state.nm.us>
- > Cc: Wayne Price <wayneprice77@earthlink.net>
- > Subject: Key Brine Well
- > Hi Carl,
- > I am doing the Key annual report, can you ell me the status of the well MIT?

```
> Wayne Price-Price LLC > wayneprice77@earthlink.net > 505-715-2809 >
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Wayne Price-Price LLC wayneprice77@earthlink.net 505-715-2809

Office	State of New Mexico	Form C-103
District I - (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II (575) 748-1283	OIL CONSERVATION DIVISION	30-025-33547
811 S. First St., Artesia, NM 88210		5. Indicate Type of Lease
<u>District III</u> (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV - (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM		1
87505		28411
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	1011
	ATTON FOR PERMIT" (FORM C-101) FOR SUCH	State 5
PROPOSALS.)	3	8. Well Number
	Gas Well Other	001
2. Name of Operator		9. OGRID Number
Ley Energy De	Wiles, Lh(	
3. Address of Operator		10. Pool name or Wildcat
1 (0 - Lasta Ur. Ste	4300 Midland, TX 79705	
4. Well Location	1000 11101040 ,111 71700	
	124/236-15-14 No. 4/2 No. 201	330 feet from the West line
Unit Letter:_	1340 feet from the North line and	
Section 15	Township 215 Range 37E	NMPM County LEA
	11. Elevation (Show whether DR, RKB, RT, GR, et	(c,)
	GL Elevation 3458	A Committee of the Comm
40 07 1 4	N. W. A. W. Mart Nickers Children	Parasit or Oil or Date
12. Check A	ppropriate Box to Indicate Nature of Notice	e, Report or Other Data
		DOEOUGNIT DEDOOT OF
NOTICE OF IN		BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON   REMEDIAL WO	
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE D	RILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEME	
		_
DOWNHOLE COMMINGLE		Cavein MIT
CLOSED-LOOP SYSTEM	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
OTHER:	OTHER: $\mathcal{C}_{\mathcal{L}}$	Condition of approval
13. Describe proposed or compl	eted operations. (Clearly state all pertinent details,	and give pertinent dates, including estimated date
13. Describe proposed or compl	eted operations. (Clearly state all pertinent details,	and give pertinent dates, including estimated date
13. Describe proposed or compl of starting any proposed wo	eted operations. (Clearly state all pertinent details, ak). SEE RULE 19.15.7.14 NMAC. For Multiple C	and give pertinent dates, including estimated date
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# **OCD Condition of Approval**

Mr. Houston, et al.:

OCD hereby requires that Key Energy Services, LLC (Key) conduct within 30-days of receipt of this Form, a Cavern MIT with pressure up to at least 200 psig for at least 4 hrs. recorded on a calibrated chart ( within past 90 days) recorder with not greater than a 500 lb. spring. The start of the MIT shall be witnessed by OCD Hobb Field Staff. The intent of this test is to verify that the cavern has healed or whether there may be an external MIT problem with the well.

You may contact Mr. Mark A. Whitaker at the OCD Hobbs District Office at (575) 393-6161 Ext. #120 or Cell at (575) 399-3202.

Please acknowledge receipt of this message and provide Key's schedule for completing the above.

OCD appreciates Key's cooperation in this matter.

Please contact Mark A. Whitaker if you have questions. Thank you.



# CALIBRATION REPORT

Type Instrument: Z02	4 17AR	100 g	INGLE P	E A	······································
Manufacturers 774170	<u> </u>				
Model Number: 1351	#57				
Serial Number: 37/	448		,		
Measurement Range:	-500 BS	1' Com	BO GL	ock	
Equipment Used: AAS					
				In Percei	2 <b>t</b>
	0%	25%	50%	. 75% -	100%
Flow (Indicated)					
Flow (Corrected)			and and all the latest and an arrangement processing		•
Pressure (Indicated)	0.	200	400	450	60102
Fressure (Corrected)	100	150	350	400	530
Temperature (Indicated)			and the second s		•
Temperature (Corrected)					
Inspected By:	ALW.	Dates	1-901/1	ecall Dat	e: 2017
REMARKS:	2		•	•	•

Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
District I - (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> - (575) 748-1283	the man of the second	WELL API NO. 30-025-33547
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Leage
<u>District III</u> (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV - (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	LUB I CANAL TO THE AREA OF THE SECOND	28411
	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	e/ / C
PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FOR SUCH	State S
1. Type of Well: Oil Well	Gas Well Other	8. Well Number OO /
2. Name of Operator	6 6	9. OGRID Number
Key Key	Energy Denices, LLC	
3. Address of Operator	Sil la million	10. Pool name or Wildcat
6 Desta Ikin	e Suite 4300 Midland, TX	
4. Well Location	79785	330 feet from the W line
Unit Letter :	1340 feet from the     line and	
Section 15	Township 2/S Range 37 = 11. Elevation (Show whether DR, RKB, RT, GR, G	NMPM County Lea
	SL 345 K	<i>u.,</i>
12. Check	Appropriate Box to Indicate Nature of Notice	ce. Report or Other Data
_		JBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL W	_
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE I MULTIPLE COMPL CASING/CEM	DRILLING OPNS.□ PANDA □ ENTJOB □
PULL OR ALTER CASING DOWNHOLE COMMINGLE	MOLTIFIE COMPL D CASING/CEM	EN 305
CLOSED-LOOP SYSTEM		
OTHER:	a MIT OTHER:	
13. Describe proposed or comp	eted operations. (Clearly state all pertinent details,	and give pertinent dates, including estimated date
	ork). SEE RULE 19.15.7.14 NMAC. For Multiple	Completions: Attach wellbore diagram of
proposed completion or rec	completion,	
		•
Spud Date:	Rig Release Date:	
_		
I hereby certify that the information	above is true and complete to the best of my knowl	edge and belief.
1	0	
SIGNATURE LAND WAY	Jakse TITLE Hadufto Ser	Wice Seprusa DATE 1.3.17
Type or print name Joseph Way For State Use Only	Jackson E-mail address: jackson	45 @ Key energy PHONE: (806) 637-350 7
APPROVED BY: Col 1.		, ,
Conditions of Approval (if any):	TITLE Environmental	Engineer DATE 1/10/2017

# **OCD Condition of Approval**

Mr. Houston, et al.:

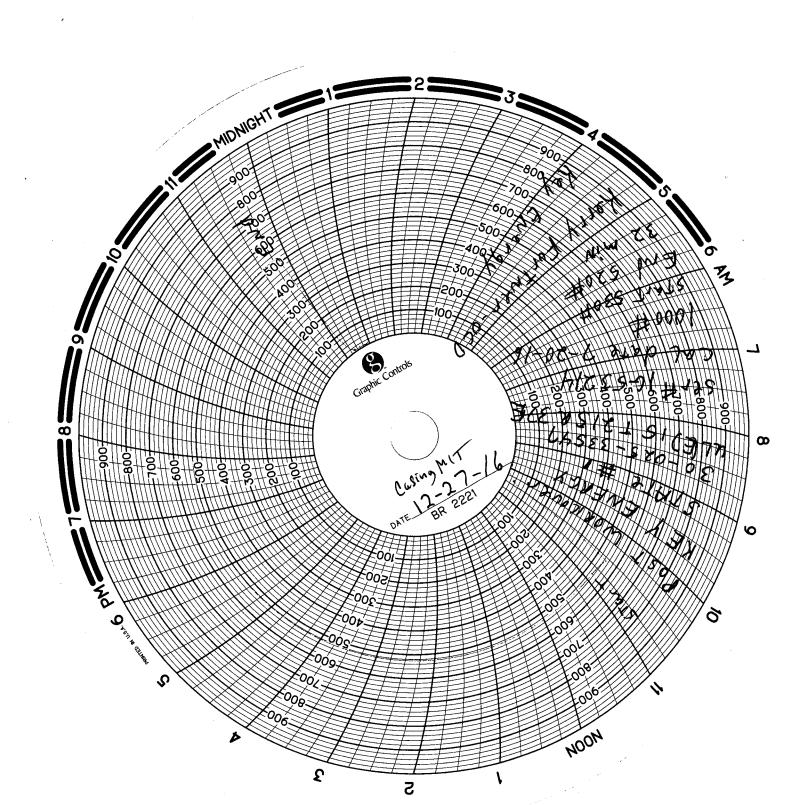
OCD hereby requires that Key Energy Services, LLC (Key) conduct within 30-days of receipt of this Form, a Cavern MIT with pressure up to at least 200 psig for at least 4 hrs. recorded on a calibrated chart ( within past 90 days) recorder with not greater than a 500 lb. spring. The start of the MIT shall be witnessed by OCD Hobb Field Staff. The intent of this test is to verify that the cavern has healed or whether there may be an external MIT problem with the well.

You may contact Mr. Mark A. Whitaker at the OCD Hobbs District Office at (575) 393-6161 Ext. #120 or Cell at (575) 399-3202.

Please acknowledge receipt of this message and provide Key's schedule for completing the above.

OCD appreciates Key's cooperation in this matter.

Please contact Mark A. Whitaker if you have questions. Thank you.



# American Valve & Meter, Inc.

# 1113 W. BROADWAY

# P.O. BOX 166 HOBBS, NM 88240

T0: Key Energy

DATE:07/20/16

This	İS	to	certify	that:
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- I, Tony Flores, Technician for American Valve & Meter Inc. has checked the calibration of the following instrument.
- 8 "\_Pressure recorder

Ser# 1G53214

at these points.

Pressure #		* Pressure #				
Test	Found	Left	Test	Found -	Left -	
- 500	- <b>S</b>	- 500	-	-	-	
- 700	- A	- 700	-	-	-	
- 1000	- M	- 1000	-	-	-	
- 200	- E	- 200	-	-	-	
- 0	-	- 0	-	-	-	

Remarks:	

Signature:

From: Chavez, Carl J, EMNRD

Sent: Tuesday, January 3, 2017 8:41 AM

**To:** Houston, Ken; 'Jackson, Jerry'; Boone, Teresa

Cc: Catanach, David, EMNRD; Griswold, Jim, EMNRD; Brown, Maxey G, EMNRD; Whitaker, Mark A,

**EMNRD** 

**Subject:** BW-28 Key Energy Services, L.L.C. State Well #1 (API# 30-025-33547): Casing MIT Pass on

12/27/2016

Mr. Houston, et al.:

The New Mexico Oil Conservation Division (OCD) witnessed the recent above subject MIT, and the well passed the test. Please submit the C-103 Form for the MIT, original MIT chart, and copy of chart calibration sheet to me in order to update the administrative record within 7-days of receipt of this message.

OCD hereby allows Key Energy Services, LLC to resume brine production operations. OCD is also evaluating the formation leak-off problem from the prior Formation MIT, and may require additional testing and/or information.

Please contact me if you have questions. Thank you.

Mr. Carl J. Chavez
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: http://www.emnrd.state.nm.us/OCD and see "Publications")

From: Griswold, Jim, EMNRD

Sent: Thursday, December 15, 2016 3:50 PM

**To:** Catanach, David, EMNRD <David.Catanach@state.nm.us>; Brown, Maxey G, EMNRD <MaxeyG.Brown@state.nm.us>; Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>

Subject: FW: State S Brine

From: Houston, Ken [mailto:KHouston@keyenergy.com]

Sent: Thursday, December 15, 2016 3:48 PM

To: Griswold, Jim, EMNRD < Jim.Griswold@state.nm.us>

Cc: Jackson, Jerry <jjackson05@keyenergy.com>; Coligan, Maren <mcoligan@keyenergy.com>; Aqueron, Rene

<raqueron@keyenergy.com>

Subject: State S Brine

December 15, 2016 Dear Mr. Griswold,

Key's State S brine well has been shut in. No water is being injected and no brine produced from the cavern. Key will resume contact with the area OCD office to provide notice prior to performing the casing MIT.

Best regards,

Ken Houston | Key Energy Services, LLC
Vice President QHSE and SWD Operations
1301 McKinney Street, Suite 1800, Houston, TX 77010
o: 713.757.5512 | c: 713.419.3908 | e: khouston@keyenergy.com

Doing it the right way. The KeyWay. Every time.

Please consider the environment before printing this email

**From:** Griswold, Jim, EMNRD

**Sent:** Thursday, December 15, 2016 3:50 PM

To: Catanach, David, EMNRD; Brown, Maxey G, EMNRD; Chavez, Carl J, EMNRD

**Subject:** FW: State S Brine

From: Houston, Ken [mailto:KHouston@keyenergy.com]

Sent: Thursday, December 15, 2016 3:48 PM

To: Griswold, Jim, EMNRD < Jim.Griswold@state.nm.us>

Cc: Jackson, Jerry <jjackson05@keyenergy.com>; Coligan, Maren <mcoligan@keyenergy.com>; Aqueron, Rene

<raqueron@keyenergy.com>

Subject: State S Brine

December 15, 2016 Dear Mr. Griswold,

Key's State S brine well has been shut in. No water is being injected and no brine produced from the cavern. Key will resume contact with the area OCD office to provide notice prior to performing the casing MIT.

# Best regards,

# Ken Houston | Key Energy Services, LLC

Vice President QHSE and SWD Operations 1301 McKinney Street, Suite 1800, Houston, TX 77010

o: 713.757.5512 | c: 713.419.3908 | e: khouston@keyenergy.com

Doing it the right way. The **KeyWay**. Every time.

Please consider the environment before printing this email

From: Chavez, Carl J, EMNRD

**Sent:** Friday, December 2, 2016 10:15 AM **To:** 'Jackson, Jerry'; Boone, Teresa

Cc: Whitaker, Mark A, EMNRD; Fortner, Kerry, EMNRD; Brown, Maxey G, EMNRD; Griswold, Jim, EMNRD

**Subject:** BW-28 Key Energy Services, L.L.C. State Well #1 (API# 30-025-33547): Cavern MIT Reschedule

# Mr. Jackson, et al.:

Good morning. The New Mexico Oil Conservation Division (OCD) is following up on our phone call this morning. There is one key change requiring a Casing MIT instead of a Cavern MIT from this morning's communication.

Key Energy Services, LLC (Key) experienced difficulty pressuring up to the 300 psi MIT pressure this morning. On Thursday (12/1), pressure in the cavern would not exceed  $\sim$  280 psi. OCD believed that the salt cavern was fractured, and requires time to heal. However, the cavern bled off overnight to 240 psi, which is a very significant reduction in pressure. Historical Cavern MITs have been successfully run as high as 350 psi. Consequently, OCD is concerned this may be more than a cavern fracture scenario, and more likely a casing issue.

Therefore, OCD requires Key to reschedule a Casing MIT (300 psi for 30 min. +/- 10% pass/fail) within the next 90 days. A packer should be set within 50 ft. or less from the casing shoe depth.

Also, on a side note, OCD has noticed pressuring up on the mature cavern with fluid has taken a longer period of time, and Key may want to consider nitrogen gas for future Cavern MITs where the pressure up time would be minimal. Let's see if we can get past this EPA 5-Yr. MIT with the Casing MIT.

Please contact Mark A. Whitaker with the OCD Hobbs District Office to reschedule the Casing MIT. Thank you.

Mr. Carl J. Chavez 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: http://www.emnrd.state.nm.us/OCD and see "Publications")

# Griswold, Jim, EMNRD

**From:** Griswold, Jim, EMNRD

**Sent:** Tuesday, July 30, 2013 1:58 PM

To: 'wayne price'

Cc: Mike Slaughter; Brian Kenne; Gonzales, Elidio L, EMNRD; Whitaker, Mark A, EMNRD;

Brown, Maxey G, EMNRD

**Subject:** RE: Key Energy Eunice BW-28 5 year MIT

Please proceed with whatever arrangements must be made to facilitate the future testing. Be aware that the test as proposed will subject both the brine cavern and entry casing to pressure. If the combination is not able to sustain the static test pressure for the duration, then further testing will be needed to determine where any observable loss might be occurring. This may dictate removal of all tubing from the well, installation of a packer to isolate the well casing, and independent pressure testing. Thank you.

### Jim Griswold

Senior Hydrologist EMNRD/Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505.476.3465

email: jim.griswold@state.nm.us

----Original Message-----

From: wayne price [mailto:wayneprice77@earthlink.net]

Sent: Tuesday, July 30, 2013 9:10 AM

To: Griswold, Jim, EMNRD Cc: Mike Slaughter; Brian Kenne

Subject: Key Energy Eunice BW-28 5 year MIT

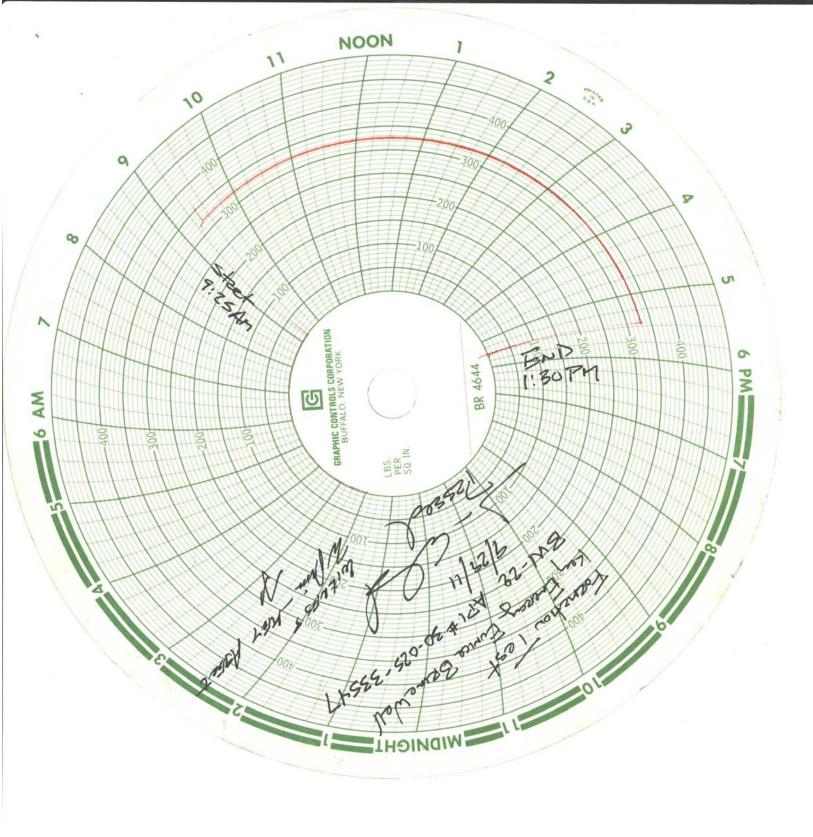
Dear Jim,

Pursuant to our meeting in Santa Fe the other day, we would like to officially request that our next 5 year MIT, (schedule 2014) Key would be able to use the normal open to formation pressure test using either nitrogen or water, pressure up to approximately 300 psig, use a conventional chart recorder calibrated for 0-500 psig, use a maximum of 12 hour clock, hold pressure for 4 hours.

Please advise so we can make proper arrangements.

Wayne Price

	State of New Mexico	Form C-103
District I - (575) 393-6161 HOBBS OCD Energy, M	Minerals and Natural Resources	Revised August 1, 2011
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II - (575) 748-1283 811 S. First St., Artesia, NM 883 EP 2 2 2011OIL CC	DNSERVATION DIVISION	30-025-33547
District III - (505) 334-6178	20 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE X FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, N <b>RECEIVED</b>	Salita Fe, INIVI 87303	6. State Oil & Gas Lease No.
87505	,	MS-0004
SUNDRY NOTICES AND REP		7. Lease Name or Unit Agreement Name
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DIFFERENT RESERVOIR. USE "APPLICATION FOR PERI PROPOSALS.)	MIT" (FORM C-101) FOR SUCH	STATE S
	Other Brine Well	8. Well Number #1
2. Name of Operator	Since Wen	9. OGRID Number
Key Energy Services		5. OGIGE Number
3. Address of Operator		10. Pool name or Wildcat
Box 99 Eunice, N.M. 88231		BSW-SALADO
4. Well Location		
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W line	icct from theiv fine	andleet from the
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Section 15 To	ownship 21S Range 37E	NMPM County LEA
11. Elevation	(Show whether DR, RKB, RT, GR, etc.,	
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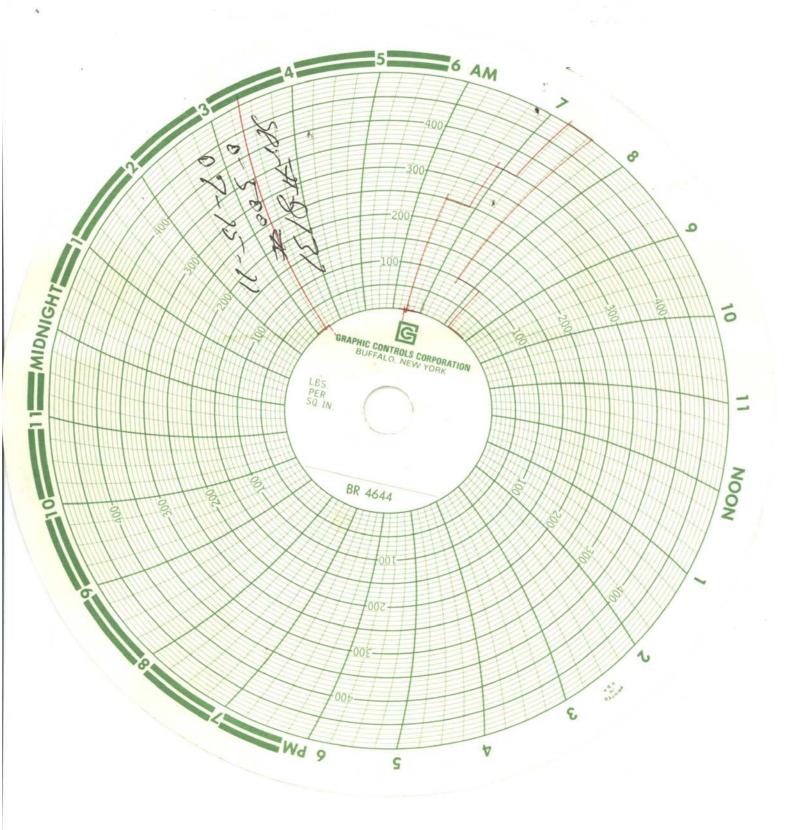


# American Valve & Meter, Inc.

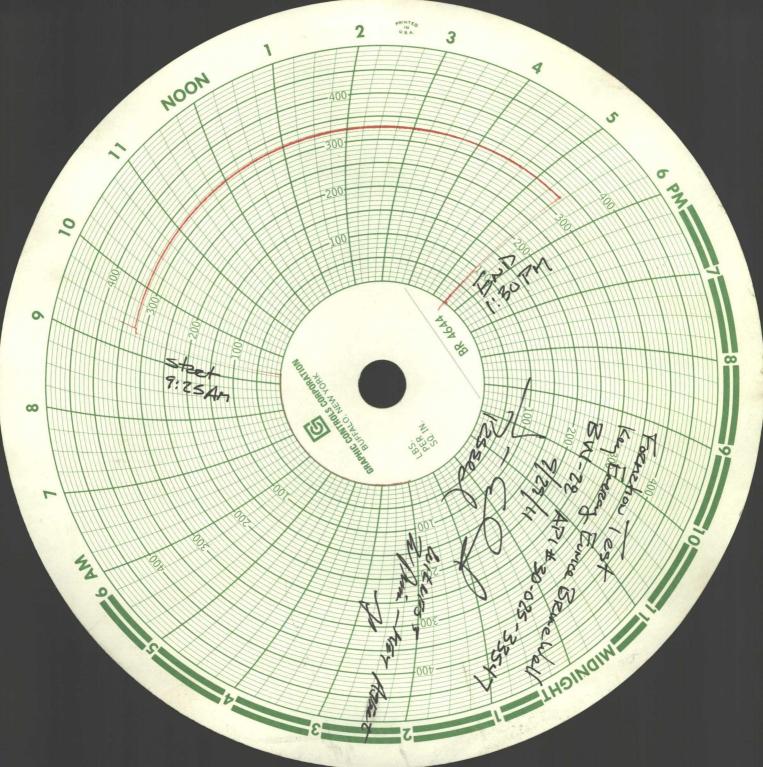
# 1113 W. BROADWAY P.O. BOX 166 HOBBS, NM 88240

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Office of French Dr., Robes, NM 85240  District II - (375) 392-6165  REPORT French Dr., Robes, NM 85240  District II - (375) 392-6165  REPORT French Dr., Robes, NM 85240  District II - (375) 392-6165  District III - (375) 392-6165  SUNDRY NOTICES AND REPORTS ON WEILS  (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUIC BACK TO A DIFFERENT RESERVOIR. USE - APPLICATION FOR PREMITY (705M C16) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well	Form C-103
SEAST, French Dr., Hobbes, NM 85240   Substituit.   G573748-1283   Subst	Revised August 1, 2011
12.2 South St. Francis Dr.   STATE 2	•
12.2 South St. Francis Dr.   STATE 2	
1000 Rio Brazos Rd., Arec., NM 87410   Santa Fe, NM 87505   Site Oil & G MS-0004	
Sunday Notice   Sunday   Sun	
SUNDRY NOTICES AND REPORTS ON WELLS  TO NOT USE THIS FORM PROPOSALS TO PORLIGO RO DEFERO R PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well	s Lease No.
PROPOSALS,   S. Well Other Brine Well   S. Well Number	Unit Agreement Name
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4. Well Location Unit Letter E 1340 feet from the N line and 330  W line Section 15 Township 21S Range 37E NMPM  11. Elevation (Show whether DR, RKB, RT, GR, etc.)  12. Check Appropriate Box to Indicate Nature of Notice, Report or Other  NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON COMMENCE DRILLING OPNS.  TEMPORARILY ABANDON MULTIPLE COMPL COMMENCE DRILLING OPNS.  OTHER: TEST FORMATION TO:  13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach v proposed completion or recompletion.  PRESSURE FORMATION TO 350# WITH FRESH WATER FOR 4 HR TEST TEST DATE 9-29-2011  Thereby certify that the information above is true and complete to the best of my knowledge and belief.	Wildcat
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W   line   Section   15   Township   21S   Range   37E   NMPM	
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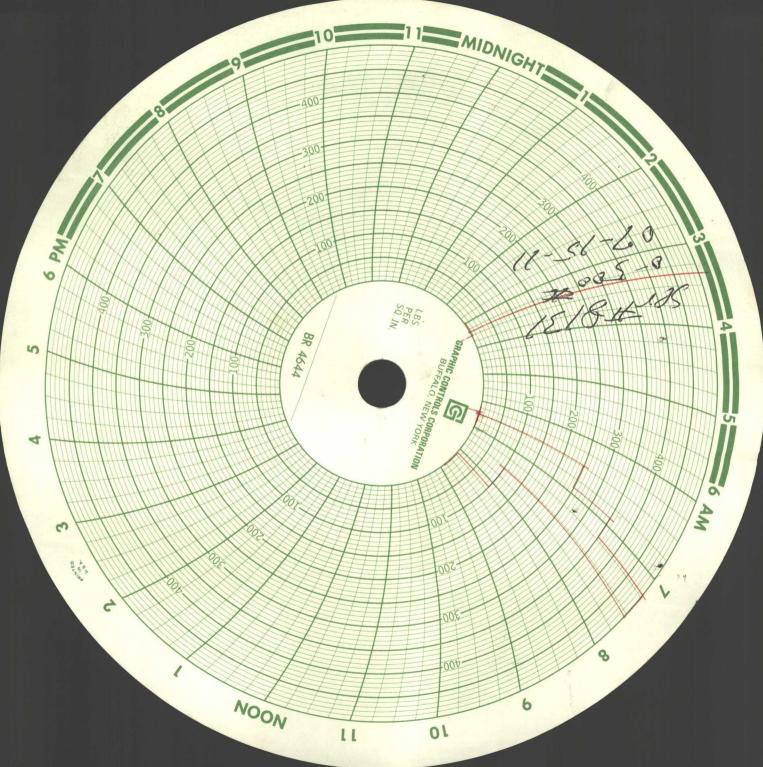


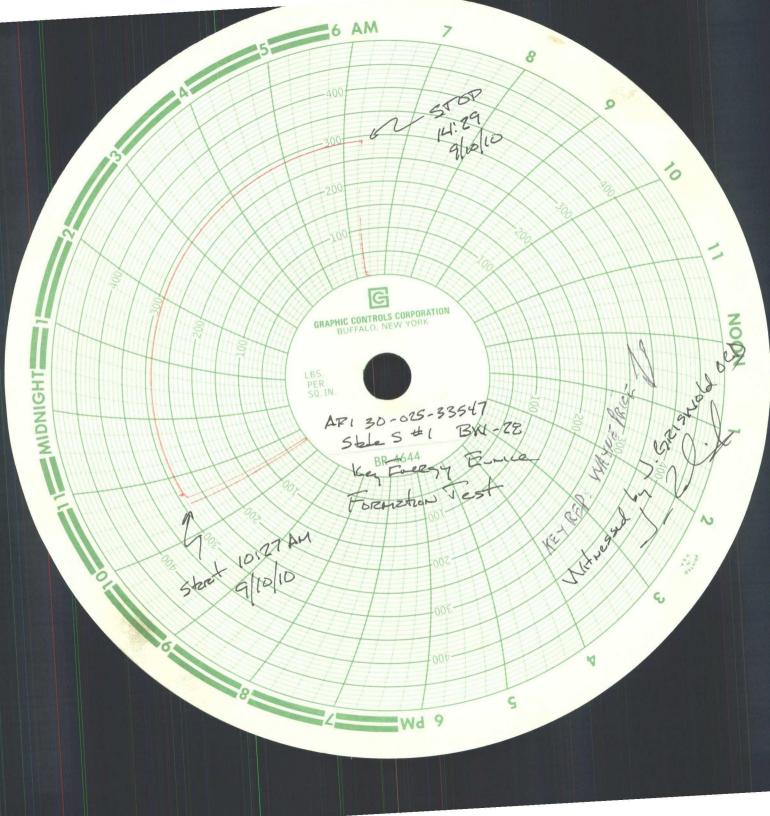
# American Valve & Meter, Inc. 1113 W. BROADWAY

# 1113 W. BROADWAY P.O. BOX 166 HOBBS, NM 88240

TO:	Rey		DATE:_	07-15	- >>
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Signature Bull Con



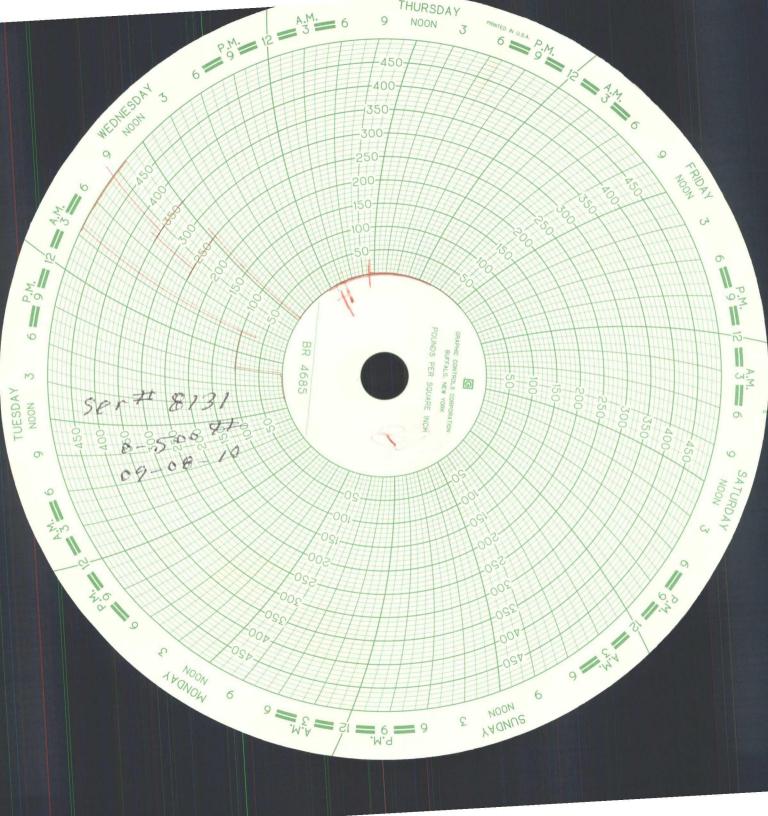


# American Valve & Meter, Inc.

# 1113 W. BROADWAY P.O. BOX 166 HOBBS, NM 88240

TO: Key Energy			DATE: 09-08-10				
This is to co	ertify that:	,					
I, Bua	1 Co//s.	ns.	, Technician for American Valve & Meter				
Inc., has ch	ecked the cali	bration of the	e following instrume	nt.			
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Signature Butto ollina



From:

Chavez, Carl J, EMNRD

Sent:

Friday, April 23, 2010 6:56 AM

Sent

'Alvarado, David'; 'lyn.sockwell@basicenergyservices.com'; 'James Millett'; Clay Wilson;

'Patterson, Bob'; 'gandy2@leaco.net'; 'Gary Schubert'; 'Dan Gibson'

Cc:

VonGonten, Glenn, EMNRD; Griswold, Jim, EMNRD

Subject:

New Mexico UIC Class III Brine Well MIT Scheduling with Completion by September 30, 2010

Gentlemen:

Re:

Basic Energy Services: BW-002 & BW-025 Gandy Corporation: BW-004 & BW-022 Key Energy Services, LLC: BW-028

Mesquite: BW-027 (MITs on 2-Well System Completed this Season) & BW-030

Salty Dog: BW-008 HRC: BW-031

Good morning. It is that time of year again to remind operators that their MITs for this season must be completed by 9/30/2010. The list of operator names w/ associated brine wells are provided above and as in the past, the OCD attempts to schedule MITs logistically on the same day and it in a route with start times that is most efficient in the field.

Operators are aware of the annual formation MIT (4-hr @ 300 psig or less depending on historical pressure and TD of well) and every 5-yrs. or after well workover. EPA MIT (30 min. @ 500 psig). Operators need to review well MIT records to inform OCD-EB of the type of MIT it will run this year and inform OCD-EB of any issues or concerns associated with this season's MIT.

You may access your well information on OCD Online either by API# and/or Permit Number at <a href="http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx">http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx</a> and <a href="http://www.emnrd.state.nm.us/OCD/OCDPermitting/Data/Wells.aspx">http://www.emnrd.state.nm.us/OCD/OCDPermitting/Data/Wells.aspx</a>. For information on New Mexico's UIC Program and training information, please go to: <a href="http://www.emnrd.state.nm.us/ocd/Publications.htm">http://www.emnrd.state.nm.us/ocd/Publications.htm</a>.

Please contact Jim Griswold at (505) 476-343465 on or before May 7, 2010 to schedule your preferred MIT date and time. Jim will work to finalize the witness schedule with each of you. Thank you in advance for your cooperation.

Copy: Brine Well Files BWs- 2, 4, 8, 22, 25, 27, 28, 30 & 31

Carl J. Chavez, CHMM UIC Program Quality Assurance & Quality Control Officer New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

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

Website: <a href="http://www.emnrd.state.nm.us/ocd/index.htm">http://www.emnrd.state.nm.us/ocd/index.htm</a> (Pollution Prevention Guidance is under "Publications")

And Andrews Test Date 5-21-09 KEY ENERLY SERVICES State #1 30.025-33547 30.025-33547 ULE SEC 15, 7215, P376 MILE J BOMINY PRO-0-1290

# American Valve & Meter, Inc. EIVED

1113 W. EROADWAY P.O. BOX 166 HOBBS, NM 38240

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10: <u>Key</u>			DATE:			
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Signature Budios Ric

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From:

Chavez, Carl J. EMNRD

Sent:

Thursday, July 02, 2009 11:47 AM

To:

'Patterson, Bob'

Subject:

Key Energy Services (BW-28) Chart Request from 5/21/09 MIT

Attachments:

image001.gif

Bob:

Good morning. Could you please send me the chart w/ calibration sheetfrom the recent 5/21/09 MIT for our record?

Hope you have a Happy 4<sup>th</sup>! Thank you.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

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

Office: (505) 476-3490 Fax: (505) 476-3462

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

Website: <a href="http://www.emnrd.state.nm.us/ocd/">http://www.emnrd.state.nm.us/ocd/</a>index.htm (Pollution Prevention Guidance is under "Publications")

From:

Chavez, Carl J, EMNRD

Sent:

Thursday, July 02, 2009 11:30 AM

To:

'james@pabservicesinc.com'

Subject:

MIT Chart w/ Calibration Sheet Request for Record from Feb. 2009 Well Work

Attachments:

image001.gif

### James:

Hi. OCD is requesting your MIT chart w/ calibration sheet from the well work conducted during Feb. of 2009. We also need this info. to confirm that you satisfied your MIT for this season.

Hope you have a happy 4<sup>th</sup>! Thank you.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Nátural Resources Dept.

Oil Conservation Division, Environmental Bureau

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

Office: (505) 476-3490 Fax: (505) 476-3462

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

Website: http://www.emnrd.state.nm.us/ocd/index.htm (Pollution Prevention Guidance is under "Publications")

# **Active Brine Well Facilities**

# • BW-2 Basic Energy/P&S Eunice #1 (API 30-025-26884)

Began production in July 1980.

Depth to top-of-salt 1320 ft bgs. Casing shoe @ 1440 ft bgs. Tubing depth 1718 ft bgs.

Last sonar log completed February 2009. Interval imaged 1440 to 1666 ft bgs. Log indicates only 21,000 bbls of cavern volume despite historic production of 6.8 Mbbls. Cavern should be ~1Mbbls.

Permit renewal date: 1/6/2014

# • BW-4 Gandy Corporation/Eidson State #1 (API 30-025-26883)

Began production in August 1980.

Depth to top-of-salt 1865 ft bgs. Casing shoe @ 1895 ft bgs. Tubing depth 2461 ft bgs.

Last sonar log completed October 2008. Interval imaged 1909 to 1944 ft bgs. Log indicates only 11 bbls of cavern volume despite historic production of 5.28 Mbbls. Cavern should be ~800,000 bbls.

Permit renewal date: 6/11/2011

# • BW-8 PAB Services/Brine Supply #1 (API 30-025-26307)

Began production in May 1979.

Depth to top-of-salt 2000 ft bgs. Casing shoe @ 1871 ft bgs. Tubing depth 2552 ft bgs.

Last sonar log completed February 2009. Interval imaged 1871 to 1903 ft bgs. Log indicates only 720 bbls of cavern volume despite historic production of perhaps 12 Mbbls. Cavern should be 1.8 Mbbls.

Permit renewal application currently under review.

# • BW-22 Gandy Corporation/Watson #1 (API 30-025-28162)

Began production in April 1983.

Depth to top-of-salt 2290 ft bgs. Casing shoe @ 2249 ft bgs. Tubing depth 2870 ft bgs.

Last sonar log completed August 2008. Interval imaged 2200 to 2220 ft bgs. Log indicates only 11,289 bbls of cavern volume despite historic production of perhaps 18 Mbbls. Cavern should be 2.7 Mbbls.

Permit renewal date: 3/11/2012

# • BW-25 Basic Energy/Salado #2 (API 30-025-32394)

Began production in September 1993.

Depth to top-of-salt 1220 ft bgs. Casing shoe @ 1220 ft bgs. Tubing depth 1385 ft bgs.

No sonar log run. Historic production of perhaps 1.7 Mbbls, indicating cavern volume of 25,500 bbls.

Permit renewal application currently under review.

### • BW-27 Mesquite SWD/Dunaway #1 and #2 (APIs 30-015-28083 and 28084)

Began production in January 1995.

Depth to top-of-salt 1060 ft bgs. Casing shoe @ 1064 ft bgs. Tubing depth 1024 ft bgs.

Last sonar log attempted December 2008 but failed to get any data due to configuration of casing and tubing.

Permit renewal date: 9/21/2009

# • BW-28 Key Energy/State Brine Well #1 (API 30-025-33547)

Began production in October 1996.

Depth to top-of-salt 1390 ft bgs. Casing shoe @ 1390 ft bgs. Tubing depth 2074 ft bgs.

Sonar log completed 5/20/09. Report not yet provided. Estimated production of perhaps 4 Mbbls. indicating cavern volume of 600,000 bbls.

Permit renewal date: 7/18/2011

### • **BW-30** Liquid Resource/Hobbs State #10 (API 30-025-35915)

Began production in July 2002.

Depth to top-of-salt 1645 ft bgs. Casing shoe @ 1633 ft bgs. Tubing depth 1930 ft bgs.

OCD did not require them to run sonar due to shortness of operational life. Estimated brine production of 1.4 Mbbls, indicateing cavern may be 207,000 bbls.

Permit renewal date: 5/29/2012

# • BW-31 HRC/HRC Schubert 7 #1 (API 30-025-36781)

Began production in October 2006.

Depth to top-of-salt 1800 ft bgs. Casing shoe @ 1865 ft bgs. Tubing depth 2300 ft bgs.

No sonar log run. Estimated production of only 560,000 bbls and thus cavern only 84,000 bbls.

Permit renewal date: 6/22/2011