

BW - 8

**MECHANICAL
INTEGRITY TEST
(MITs)**

DATE:



PRINTED IN U.S.A.

NOON

10

9

8

7

6 AM

5

4

5

6 PM

7

4

3

2

1

900

800

700

600

500

400

300

200

100

900

800

700

600

500

400

300

200

100

900

800

700

600

500

CHART NO. MC MP-1000

Graphic Controls LLC

METER

CHART PUT ON

LOCATION

TAKEN OFF

REMARKS

2-9-18

Brine Well Test

Salty Dog Inc.

Brine Supply Well #1

30-025-26307-00-00

5-195-36E

Cal date 1-31-18

Ser. # 15698

1000 #

12 Hour

Gary Robinson - OCS
Line of Standard

End 12:01 PM

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS,
NM 88240

FEB 26 2018 PM 03:16

To:Rental

DATE:01/31/18

This is to certify that:

I, RLLarmon ,Technician for American Valve & Meter Inc. has checked the calibration of the following instrument. These points

12 " _Pressure recorder

Ser#15698

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

Remarks: _____

Signature:  _____

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103

Revised August 1, 2011

HOBBS OGD CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505
AUG 20 2013

WELL API NO. 30-025-26307
5. Indicate Type of Lease STATE FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. 25087
7. Lease Name or Unit Agreement Name Brine Supply Well
8. Well Number #001
9. OGRID Number 184208
10. Pool name or Wildcat BSW & Salado
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3963 GL

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other (Brine Well)

2. Name of Operator
PAB Services Inc. DBA Salty Dog Inc.

3. Address of Operator
P O BOX 190, LUBBOCK, TX 79408

4. Well Location
Unit Letter: J, 1980 feet from the SOUTH line and 1980' feet from the EAST line
Section 5 Township 19S Range 36E NMPM County LEA COUNTY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

MIRU Pulling Unit
 Flow well down to tanks
 GIH w/ 4 3/4" bit and 5 1/2" casing scraper to 1820'
 POOH w/ bit and scraper
 GIH w/ 5 1/2" AD-1 packer and set @ 1820' - Test casing to 420# for 30 minutes (See attached chart)
 RDMO

Wait on Drilling rig to finish recompletion

Spud Date: August 5, 2013

Rig Release Date: August 8, 2013

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Randy Post TITLE Manager DATE: 10-18-2012

Type or print name RANDY POSTON E-mail address: randyp@aqueousoperating.com PHONE: (806) 787-1864

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS, NM 88240

T0: RENTAL

DATE: 10/25/16

This is to certify that :

I, Tony Flores, Technician for American Valve & Meter Inc.

has checked the calibration of the following instrument.

12" Pressure recorder

Ser# 18113

at these points:

Pressure #1000			Temperature *or Pressure #		
Test	Found	Left	Test	Found	Left
- 0	-	-0	-	-	-
- 500	-	- 500	-	-	-
- 700	-	- 700	-	-	-
- 1000	-	- 1000	-	-	-
- 200	-	- 200	-	-	-
- 0	-	- 0	-	-	-

Remarks: _____

Signature: 

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

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

WELL API NO. <i>30-025-26307</i>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. <i>25087</i>
7. Lease Name or Unit Agreement Name <i>Brine Supply Well</i>
8. Well Number <i>001</i>
9. OGRID Number <i>184208</i>
10. Pool name or Wildcat <i>BSW & Salado</i>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <i>3963</i>

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other *Brine Well*

2. Name of Operator
PAB Services DBA Salty Dog Inc.

3. Address of Operator
P.O. Box 190 Lubbock TX 79408

4. Well Location
 Unit Letter *J* : *1980* feet from the *South* line and *1980* feet from the *East* line
 Section *5* Township *19S* Range *36E* NMPM County *Lea*

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <i>MIT</i> <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Perform 5 year MIT as directed.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Jim Sayre* TITLE *MANAGER* DATE *11-15-10*
 Type or print name *Jim Sayre* E-mail address: *jim@thestandardenergy.com* PHONE: *575-361-5072*
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

Start 8:20 AM
395 PSI



Graphic Controls Inc

11/15/2016

CHART NO. MC MP-1000

METER #18113

CHART PUT ON

TAKEN OFF

LOCATION American Valve & Meter

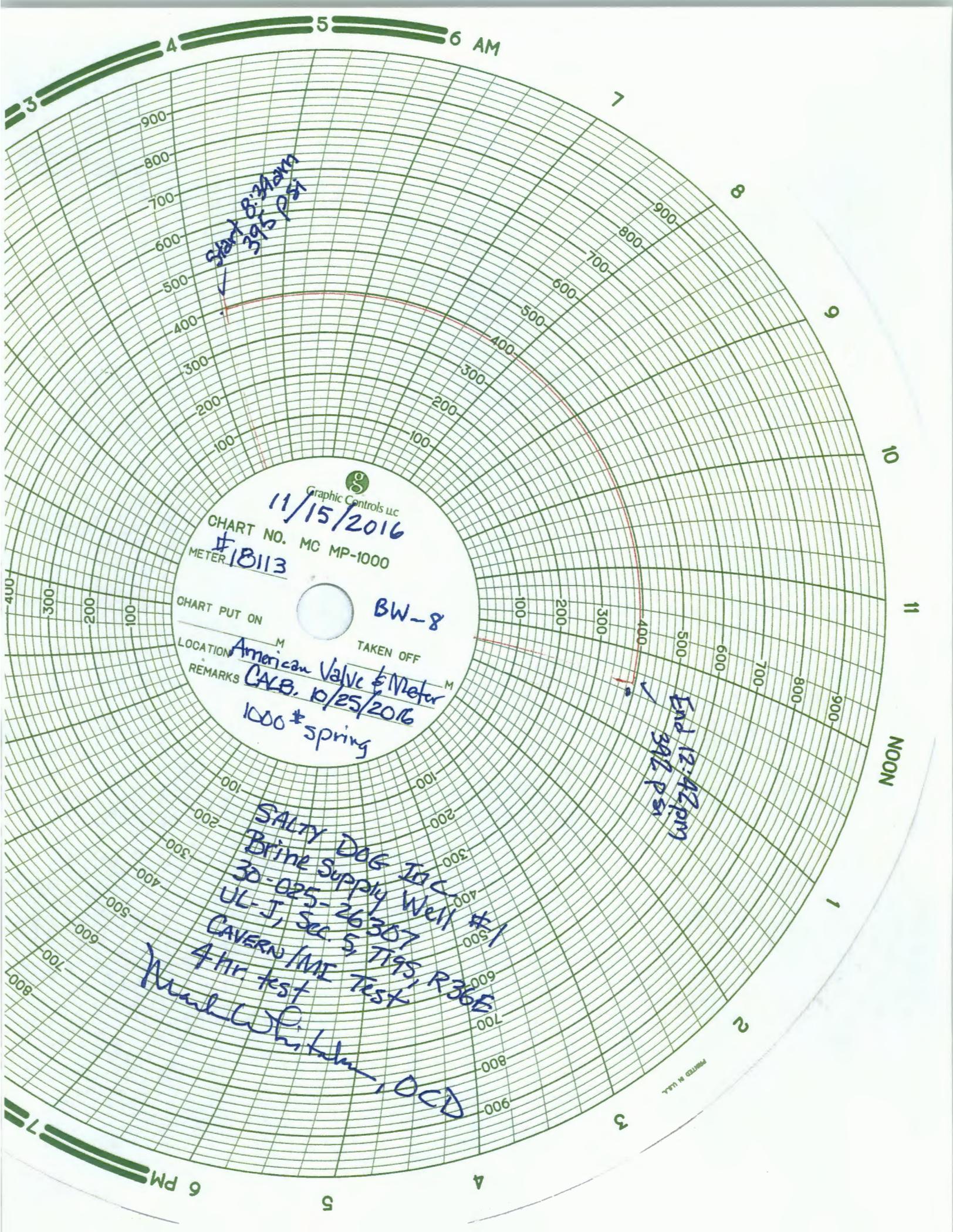
REMARKS CALB. 10/25/2016

1000 # spring

End 12:42 PM
395 PSI

SALTY DOG INC
Brine Supply Well #1
30-025-26307
UL-J, Sec. 5, T19S, R36E
CAVERN / MI TEST
4 hr test
Mark Whistler - 10CD

6 PM



Start 8:30 AM
395 PSI

End 12:42 PM
390 PSI

Graphic Controls Inc
 11/15/2016
 CHART NO. MC MP-1000
 METER #18113
 CHART PUT ON M
 BW-8
 TAKEN OFF M
 LOCATION American Valve & Meter
 REMARKS CALB, 10/25/2016
 1000# spring

SALTY DOG INC
 Brine Supply Well #1
 30-025-26307
 UL-J, Sec. 5, T195, R36E
 CAVERN/ME TEST
 4 hr test
 Mark W. Fisher, OCD

MADE IN U.S.A.

RECEIVED
2011 NOV 18 P 2 11

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 19, 2016 4:56 PM
To: 'pieter@bergsteinerenterprises.com'
Cc: Griswold, Jim, EMNRD; Brown, Maxey G, EMNRD; Whitaker, Mark A, EMNRD; Sanchez, Daniel J., EMNRD
Subject: BW-8 DP-325 A Standard Energy Brine Supply #1 30-025-26307 J-5-19S-36E Brine Well MIT Status (BW-8) Last MIT Date: 11/16/2010
Attachments: EPA 5-Yr Casing MIT 10-12-2016 CJC.pdf; UIC Class III Cavern MIT Guidance 10-12-16CJC..pdf

Mr. Bergstein:

Re: BW-8 DP-325 A Standard Energy Brine Supply #1 30-025-26307 J-5-19S-36E
1980 1980 32.688427 -103.374346 Lea Hobbs 11 Private
Private 1 New Active 5/7/79 5/7/79 -- 372 60 Rustler Salado
2000 1871 5.5 2552 2.5 2958 552 Y 6,814,640 1,022,196 5,465,558
194 0.0972 2/5/09 41 1 1871-1903 720 4/22/2008 8/14/2009 under
review pieter@bergsteinerenterprises.com 806-741-1080

Pieter:

Good afternoon. The New Mexico Oil Conservation Division (OCD) has reviewed its administrative record for the above subject brine well, and notice that your brine well must be tested on or before November 30, 2016.

Please contact Mr. Mark A. Whitaker (see contact information below) to schedule either your Casing MIT or Cavern MIT (see attached procedures). The choice is yours.

District 1
1625 N. French Drive
Hobbs, New Mexico 88240
OFFICE: (575) 393-6161 FAX: (575) 393-0720
EMERGENCY NUMBER - MOBILE: (575) 370-3186
Business Hours:
7:00 AM-12:00 PM and 1:00 - 4:00 PM
Monday through Friday

[Mark A. Whitaker](#) - Petroleum Engineering Specialist

Phone extension: 120

Mobile: (575) 399-3202

- Field Inspections, Plug and Abandonment, Orphan Well Plugging, P&A Site Release

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”)

UIC Program
Brine Well EPA 5-Yr. MIT Guidance
(30-minute hydrostatic well casing MIT closed to formation)

- 1) A work over rig must remove all tubing from the hole.
- 2) A packer or plug must be set within 20 feet of the casing shoe depth and piping must be filled, and pressured up from 300 to 500 psi. The casing/tubing annulus must be loaded with inert fluid at least 24 hours prior to testing.
- 2) Have manpower and equipment available for pressure test. Wellhead shall be prepared for test and all valves and gauges should be in good working order.
- 3) Pumps, tanks, external lines etc. must be isolated from the wellhead during test.
- 4) A continuous recording pressure device with a 1 or 4-hour clock shall be installed on the casing annulus. The pressure range shall not be greater than 500 psig. The operator must provide proof that the pressure-recording device has been calibrated within the past 6 months.
- 5) A minimum of one pressure gauge shall be installed on the casing/tubing annulus.
- 6) OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). **At the end of test operator may be required to bleed-off well pressure to demonstrate recorder and gauge response into an adequately sized containment vessel(s) for this purpose and to verify that there were no obstructions in the well during the test. Effluent from this vessel must be discharged back into the well at the completion of the test.**
- 7) The Operator shall supply the following information on the pressure chart:
 - A. Company Name, Well Name, API #, Legal Location.

- B. Test Procedure (1) Casing + Formation (2) Casing Test Only (3) Both (4) Other
 - C. Testing Media: Water, Gas, Oil, Etc.
 - D. Date, time started and ending.
 - E. Name (printed) and signature of company representative and OCD Inspector
- 8) **TEST ACCEPTANCE:** The OCD will use the following criteria in determining if a well has passed the Mechanical Integrity Test:
- A. **Passes** if Zero Bleed-Off during the test.
 - B. **Passes** if Final Test Pressure is within $\pm 10\%$ of Starting Pressure, if approved by the OCD inspector.
 - C. **Fails** if any Final Test Pressure is greater than $\pm 10\%$ of Starting Pressure. Operators must investigate for leaks and demonstrate that mechanical integrity of the well(s) by ensuring there are no leaks in the casing, or packer, and injected/produced fluids are confined within the piping and injection zones. Wells shall not resume operations until approved by OCD.

Note: OCD recognizes that different operations, well designs, formation characteristics and field conditions may cause variations in the above procedures. If operator wishes to make or anticipate changes, please notify the OCD for approval. All operators are responsible to notify OCD of any procedure that may cause harm to the well system or formation. Please be advised that OCD approval does not relieve any operator of liability should operations result in pollution of surface water, groundwater, or the environment.

Also note: This document is intended to provide technical guidance to operators on technical means to achieve compliance with the rules and regulations of the Oil Conservation Division and the Oil and Gas Act. The test procedures set forth are not regulations or policies and therefore other methods may exist to achieve compliance with the rules and regulations and the Oil and Gas Act.

NMOCD recommends that a licensed professional engineer or licensed geologist, or a licensed professional engineer or licensed geologist designee supervise all test procedures and associated field activity.

DRAFT

OCD UIC Program
Draft Brine Well Cavern MIT Guidance (4-hour hydrostatic well test open to the salt formation)

- 1) The cavern and all piping must be filled, pressured up and stabilized for a period of at least 24 hours prior to testing. If this test requires a packer then casing/tubing annulus must be loaded with inert fluid 24 hours prior to testing.
- 2) Have manpower and equipment available for pressure test. Wellhead shall be prepared for test and all valves and gauges should be in good working order.
- 3) Pumps, tanks, external lines etc. must be isolated from the wellhead during test.
- 4) A continuous recording pressure device with an **8 or 12-hour clock** shall be installed on the casing/tubing annulus. The pressure range shall not be greater than 500 psig. The operator must provide proof that the pressure-recording device has been calibrated within the past 6 months. **Note: Wells with packer installed: If this test requires both the casing/tubing annulus and cavern to be tested then two recording devices must be supplied or one recording device with two pins.**
- 5) A minimum of one pressure gauge shall be installed on the casing/tubing annulus.
- 6) OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). **Ensure that fluids from the well are not spilled onto the ground.**
- 7) The Operator shall supply the following information on the pressure chart:
 - A. Company Name, Well Name, API #, Legal Location.
 - B. Test Procedure (1) Casing + Formation (2) Casing Test Only (3) Both (4) Other
 - C. Testing Media: Water, Gas, Oil, Etc.
 - D. Date, time started and ending.
 - E. Name (printed) and signature of company representative and OCD

Inspector

- 8) **TEST ACCEPTANCE:** The OCD will use the following criteria in determining if a well has passed the Mechanical Integrity Test:
- A. **Passes** if Zero Bleed-Off during the test.
 - B. **Passes** if Final Test Pressure is within $\pm 1\%$ of Starting Pressure, if approved by the OCD inspector.
 - C. **Fails** if any Final Test Pressure is greater than $\pm 1\%$ of Starting Pressure. Operators must investigate for leaks and demonstrate that mechanical integrity of the well(s) by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and injection zones. Wells shall not resume operations until approved by OCD. **Caution is urged to reduce pressure appropriately as a function of depth to the salt cavern to prevent fracturing during testing.**

Note: OCD recognizes that different operations, well designs, formation characteristics and field conditions may cause variations in the above procedures. If operator wishes to make or anticipate changes please notify the OCD for approval. All operators are responsible to notify OCD of any procedure that may cause harm to the well system or formation. Please be advised that OCD approval does not relieve any operator of liability should operations result in pollution of surface water, groundwater, or the environment.

Also note: This document is intended to provide technical guidance to operators on technical means to achieve compliance with the rules and regulations of the Oil Conservation Division and the Oil and Gas Act. The test procedures set forth are not regulations or policies and therefore other methods may exist to achieve compliance with the rules and regulations and the Oil and Gas Act.

OCD recommends that a licensed professional engineer or licensed geologist, or a licensed professional engineer or licensed geologist designee supervise all test procedures and associated field activity.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, April 23, 2010 6:56 AM
To: '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 in a route with start times that is most efficient in the field.

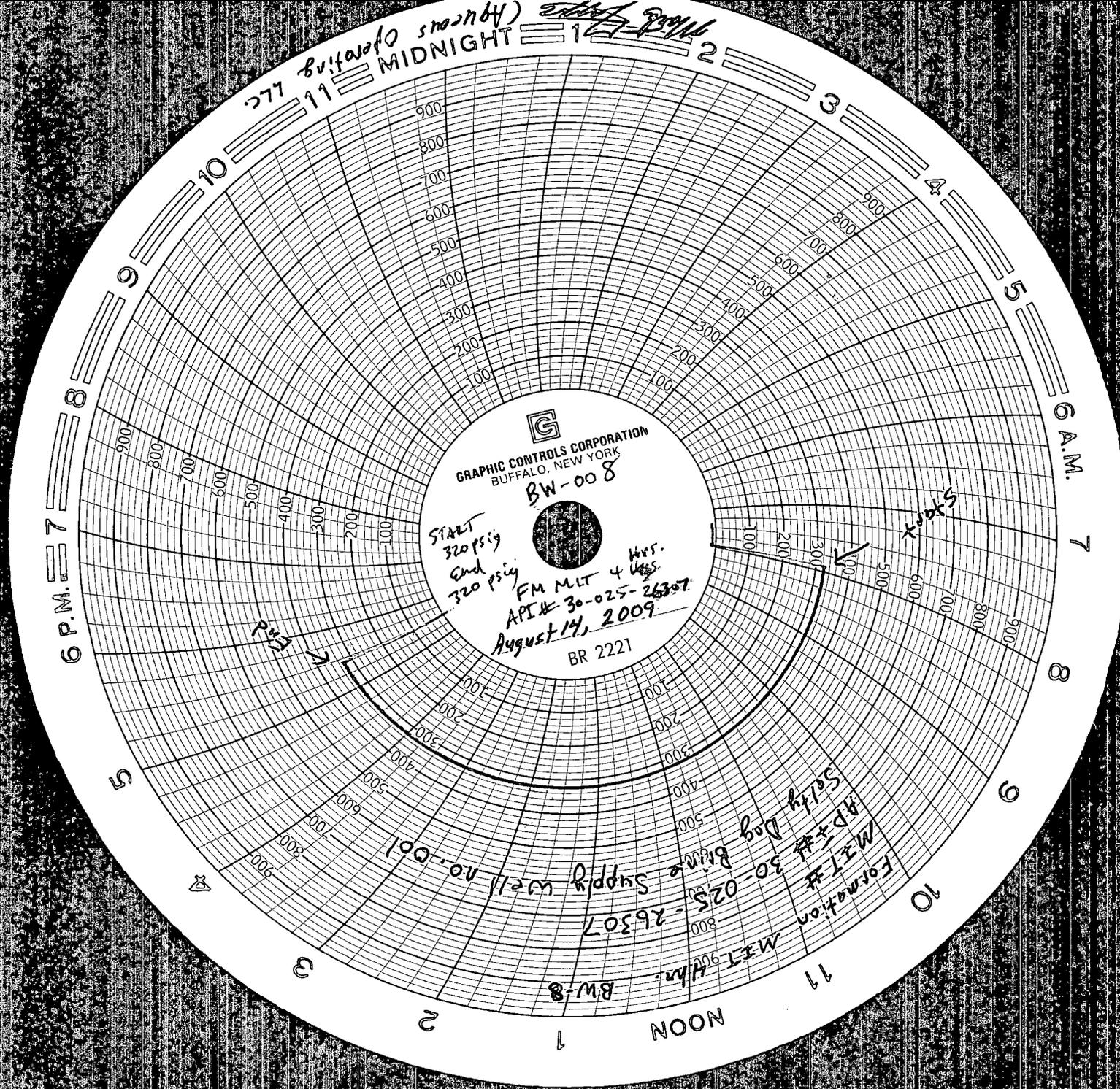
Operators are aware of the annual formation MIT (4-hr @ 300 psig or less depending on historical pressure and TD of well) and every 5-yrs. or after well workover. EPA MIT (30 min. @ 500 psig). Operators need to review well MIT records to inform OCD-EB of the type of MIT it will run this year and inform 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 <http://ocdiimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx> and <http://www.emnrd.state.nm.us/OCD/OCDPermitting/Data/Wells.aspx>. For information on New Mexico's UIC Program and training information, please go to: <http://www.emnrd.state.nm.us/ocd/Publications.htm>.

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




 GRAPHIC CONTROLS CORPORATION
 BUFFALO, NEW YORK
 BW-008

START 320 psig
 End 320 psig
 FM MLT 4 hrs.
 API# 30-025-26307
 August 14, 2009
 BR 2221

Formation MWT# 30-025-26307
 Dog Bone Supply Well no. 001
 MWT# 30-025-26307
 MWT 900° Fm. BW-8

Pressure

Temperature

11 MIDNIGHT
 10
 9
 8
 7
 6 A.M.

6 P.M.

NOON

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2

3

4

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11

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2200

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2400

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2900

3000

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3000

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600

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1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

100

200

300

American Valve & Meter, Inc.

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

RECEIVED

2009 AUG 28 AM 10 55

TO: AMV&M Rental

DATE: 7-30-09

This is to certify that:

I, Bud Collins, Technician for American Valve & Meter,

Inc., has checked the calibration of the following instrument.

"Pressure recorder Serial No: 3399

at these points.

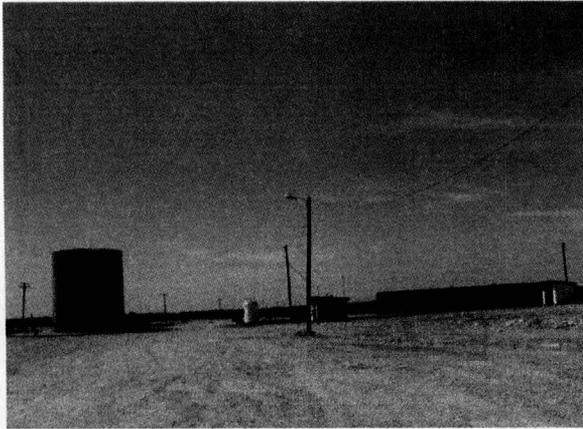
Pressure 0 - 1000 * Temperature _____

<u>Test</u>	<u>Found</u>	<u>Left</u>	<u>Test</u>	<u>Found</u>	<u>Left</u>
<u>0</u>	—	<u>0</u>	—	—	—
<u>500</u>	—	<u>500</u>	—	—	—
<u>1000</u>	—	<u>1000</u>	—	—	—
<u>700</u>	—	<u>700</u>	—	—	—
<u>200</u>	—	<u>200</u>	—	—	—
<u>0</u>	—	<u>0</u>	—	—	—

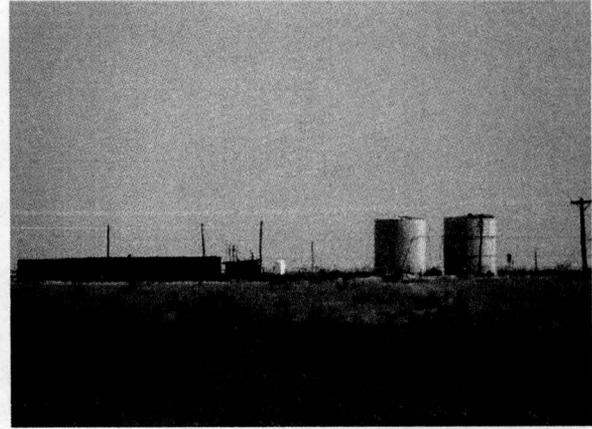
Remarks: _____

Signature Bud Collins

BW-8 Inspection & MIT (8/13/09)



Looking N at brine loading rack w/
temporary black frac brine holding tanks



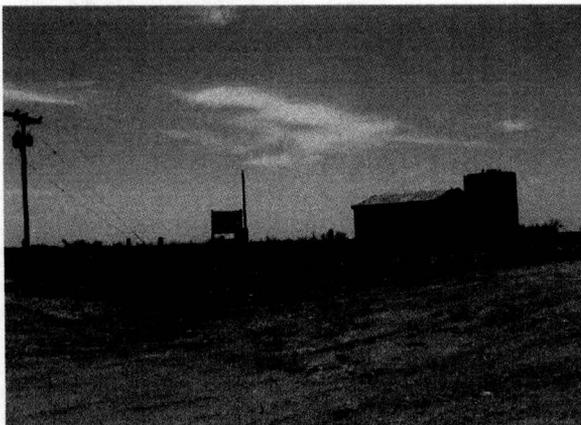
Looking S-SE at out-of-service brine storage
tanks near roadway w/ black frac tanks in
background



Fresh water well inside shed providing fresh
water to brine well for MIT



Looking S-SE Close-up of brine holding
tanks near roadway currently out-of-service



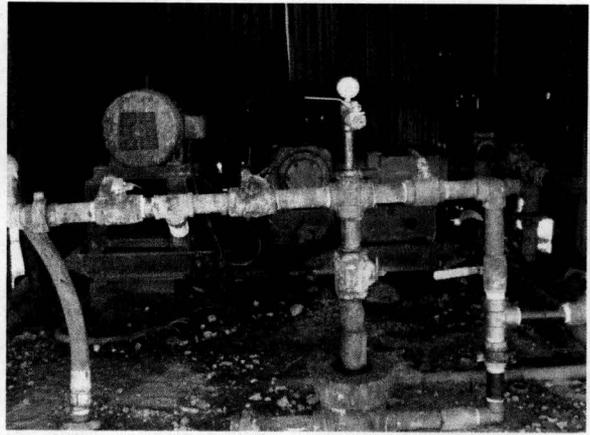
Looking N at shed w/ brine well and fresh
water tank that is currently out-of-service



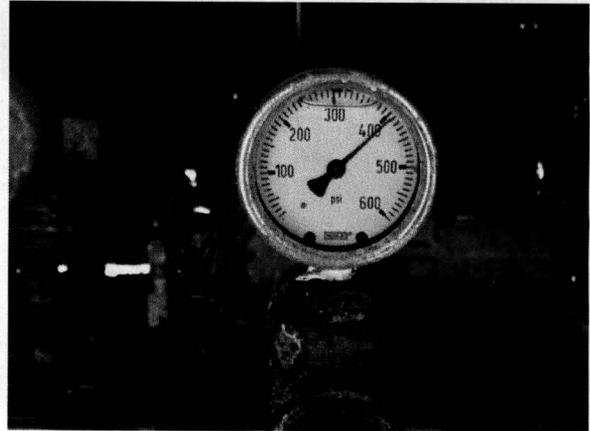
Looking NW at fresh water tank near shed temporarily out-of-service along w/ pump & treat well



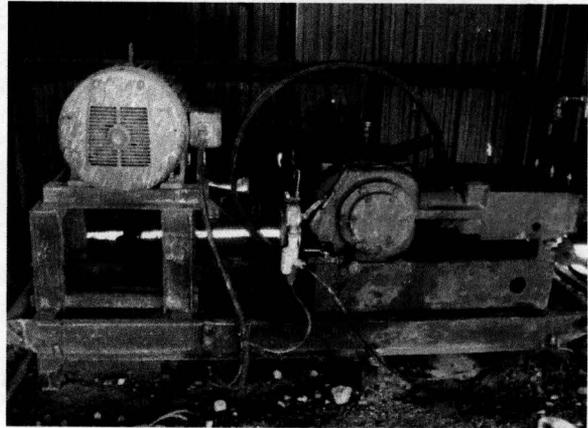
Wellhead inside shed with pump, etc



Well head valve configuration for MIT



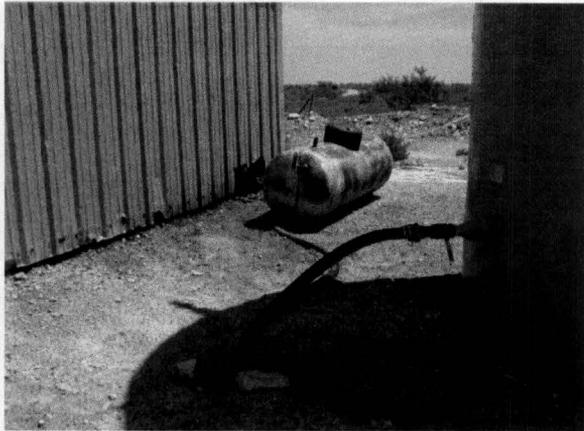
Faulty gauge reads 400 psig while calibrated chart recorder reads 200 psig



Pump in shed



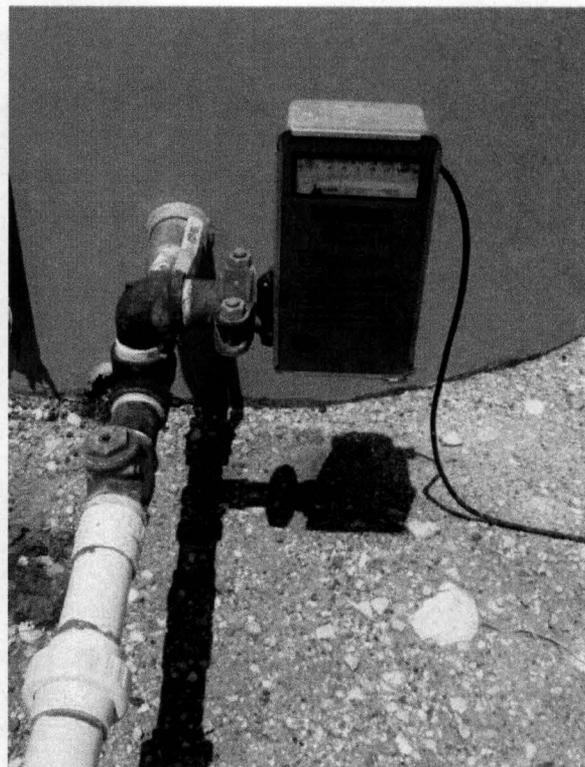
Charged up wellhead valve configuration



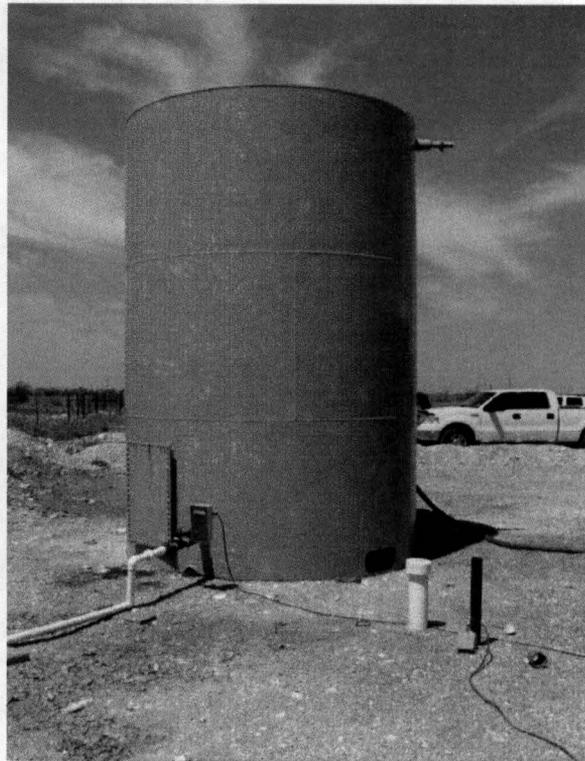
Propane tank between shed and fresh water tank is empty and out-of-service.



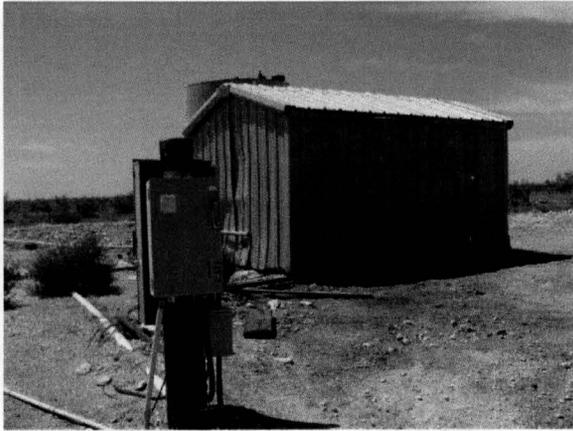
Berm area lacks liner system- awaiting construction w/ liner system



Fresh water tank meter volume empty



Looking E-NE at Fresh water tank out-of-service



Looking S-SW at Shed with brine well in background



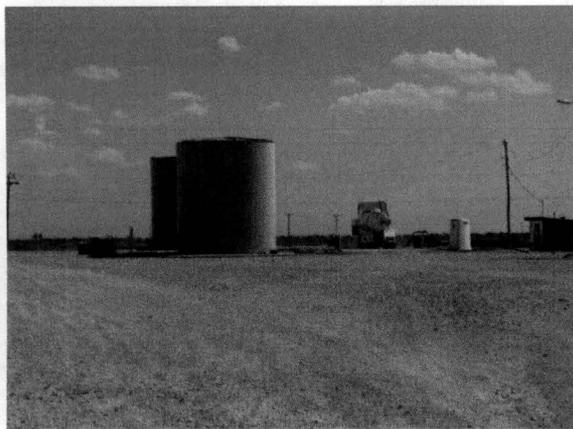
Looking S-SW at blk. temporary frac tanks in background used to store and sell brine



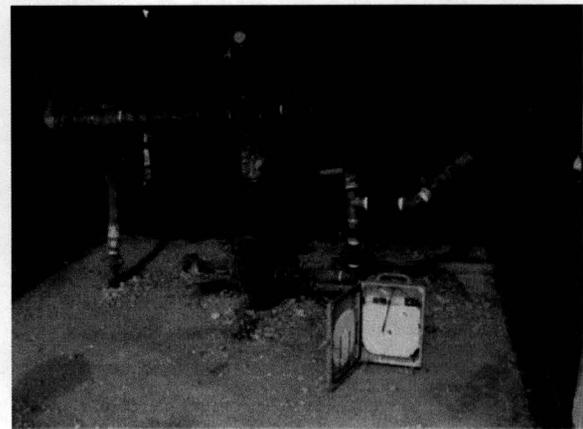
New mobile home within 300 ft. W of wellhead



Blk. temp. frac tanks close-up not within bermed area or on top of secondary liner system



Tanks that replaced brine ponds are currently out-of- service



Wellhead with chart recorder, but pressure is only at 200 psig. Well needs recharging for MIT tomorrow.

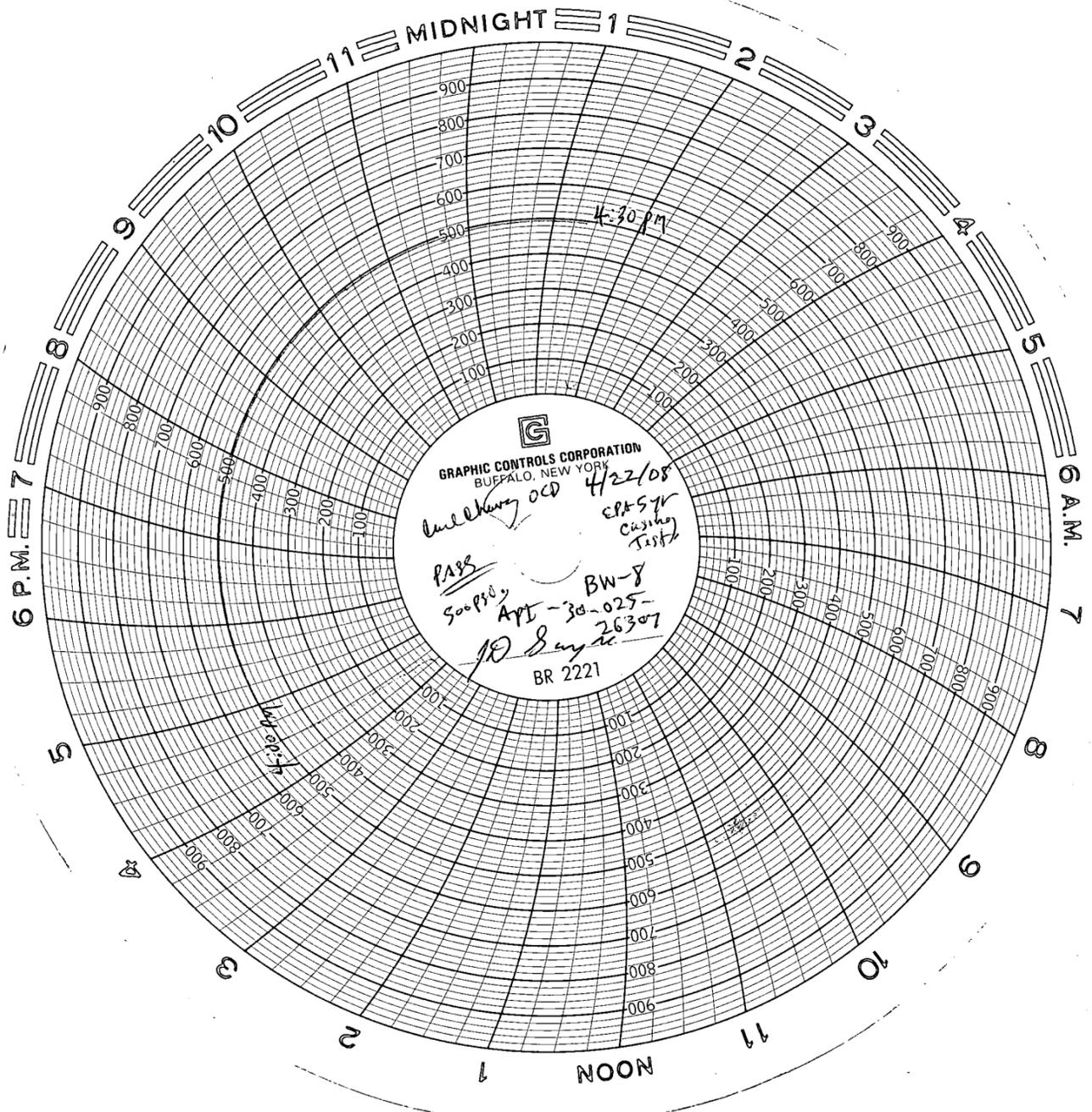
Notes:

- 1) Well pressured up to top gauge pressure of 400 psig was found to be faulty when calibrated chart recorder was connected, pressure was at only 200 psig. Operator agreed to pressure up cavern overnight to run Formation MIT at greater than 300 psig the next morning. C-103 with Formation MIT (4 hrs) will be mailed to OCD the week of 8/17/2009.
- 2) Black frac tanks temporarily used to store and sell brine are not within bermed and lined containment area(s) until tanks can be installed and operational as per item 3 below. The operator shall step up inspections around the tanks for any leakage and reporting under release reporting in the permit.
- 3) Tanks installed to replace brine ponds are not in service yet. What is the date on installation and operation? OCD requires a liner system of sufficient mil thickness with adequate dimensions for containing $1 + \frac{1}{3}$ the volume of a single enclosed tank and interconnected tanks enclosed within the berm area. For guidelines see recent OCD Pit and/or Surface Waste Management Regulations.
- 4) A new mobile home was recently placed within 300 ft. W of the brine wellhead.
- 5) Operator claims it can't make 10 lb. brine under conventional flow regime.
- 6) OCD received chart from MIT (run on 8/14/2009) with calibration sheet via mail on 8/28/09 indicating the unwitnessed Formation MIT passed without any pressure loss at 320 psig.

7) OCD notes that his facility is under an NOV with remedial or corrective action issues ongoing.

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



G
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Paul Henry OCD 4/22/08
PAB
Soc 30
APL - 30 - 025 -
D. S. ...
BR 2221
CPS 571
Casing
Test

4:30 PM

S₂₀ → 495 / 30 min

BW-8 4/22/08
4:00 PM

American Valve & Meter, Inc.

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

TO: Z17 DATE: 9-24-07

This is to certify that:

I, Bud Collins, Technician for American Valve & Meter, Inc., has checked the calibration of the following instrument.

8" Pressure recorder Serial No: 5071

at these points.

Pressure 0-1040* Temperature _____

<u>Test</u>	<u>Found</u>	<u>Left</u>	<u>Test</u>	<u>Found</u>	<u>Left</u>
<u>0</u>	—	<u>0</u>	—	—	—
<u>500</u>	—	<u>500</u>	—	—	—
<u>1000</u>	—	<u>1000</u>	—	—	—
<u>200</u>	—	<u>200</u>	—	—	—
<u>290</u>	—	<u>290</u>	—	—	—
<u>0</u>	—	<u>0</u>	—	—	—

Remarks: _____

Signature Bud Collins

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, March 18, 2008 3:04 PM
To: 'Ammons17@yahoo.com'
Cc: Price, Wayne, EMNRD
Subject: FW: TENTATIVE MIT BW-8 Salty Dog Zia Transports
Attachments: TENTATIVE MIT BW-8 Salty Dog Zia Transports

Mr. Ammon:

The OCD is available to witness the MIT on Tuesday, April 22, 2008 on or after 4 p.m. (if it is the EPA 5 Yr. 30 min. pressure up on casing MIT) or Wednesday morning at 8 a.m. April 23, 2008 (either the annual or EPA MIT).

Please confirm the type of MIT that will need to be performed. When was the last time the tubing was pulled and a packer set with pressure up on the casing for 30 minutes (EPA 5-Yr. MIT)? This is supposed to be performed every 5 years.

If you will be running the annual formation test (4 hr.), OCD records indicate that the casing shoe of the well is set at 1800 feet. This would result in a maximum allowable surface pressure during the test of 540 psig.

Depending on the type of MIT run, let me know what day you would prefer? I spoke with Mr. Sayre earlier today and indicated that OCD records reflect an annual MIT was performed on 12/29/05 for 30 minutes at 340 psig and passed. However, I could not tell whether the tubing was pulled and a packer was set above the casing shoe for the MIT, which would satisfy the EPA 5-Yr. MIT? Please contact me to communicate on the above. 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) 476-3491
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")

3/18/2008

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER brine supply SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Brine Supply Well	
2. Name of Operator BRUNSON & MCKNIGHT, INC.		9. Well No. 1	
3. Address of Operator P. O. Box 297, Hobbs, NM 88240		10. Field and Pool, or Wildcat Undesignated	
4. Location of Well UNIT LETTER J LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 5 TWP. 19 S RGE. 30 E NMPM		12. County Lea	
19. Proposed Depth 3000'		19A. Formation Salt	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 3806.0 GR	21A. Kind & Status Plug, Bond current	21B. Drilling Contractor Marc Drilling Co.	22. Approx. Date Work will start 4/27/79

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11 1/4	8 5/8	26#	1800	750 circ.	
6 1/4	2 3/8"		0--3000	none	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

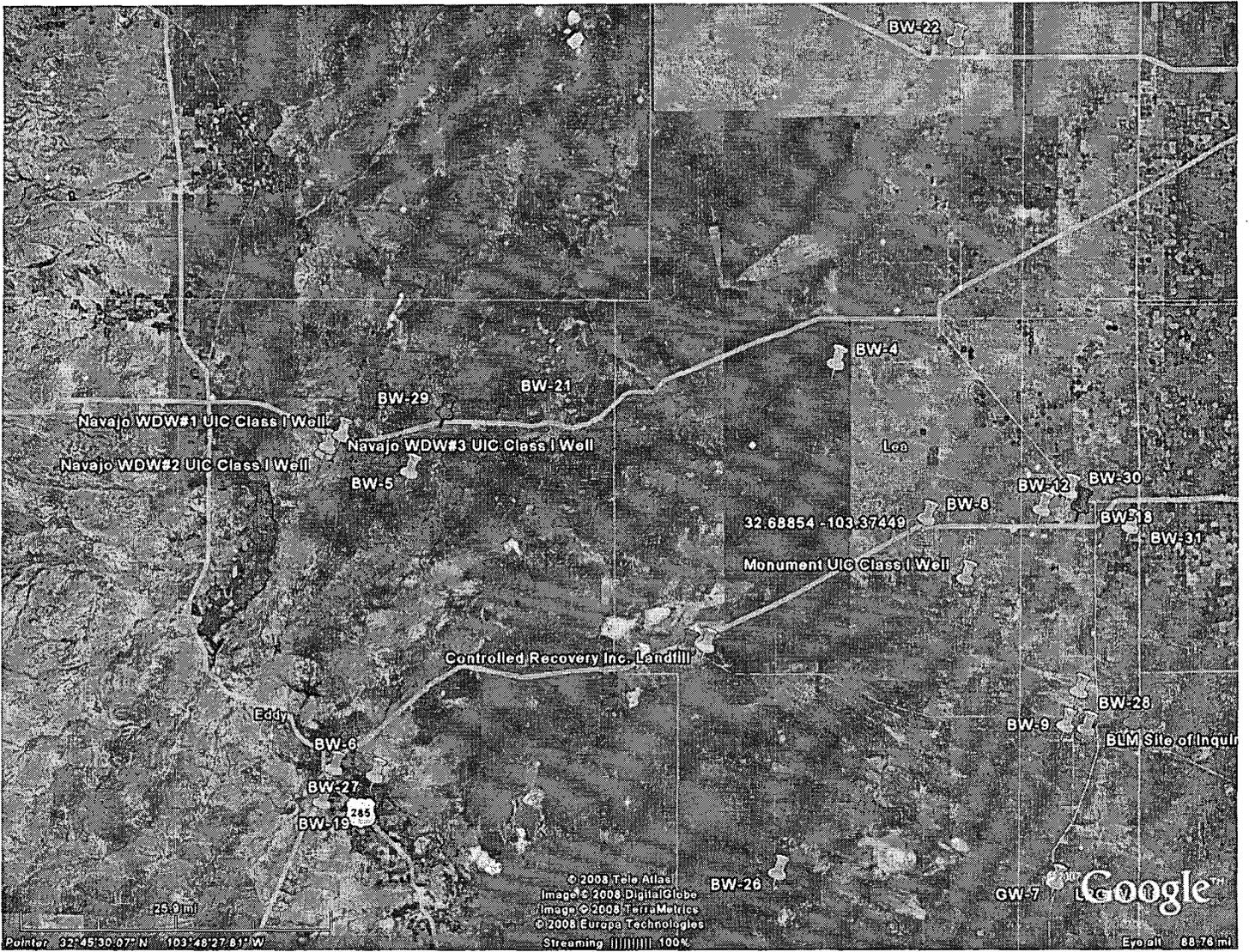
Signed Nolan Brunson, Jr. Title President Date 4/27/79

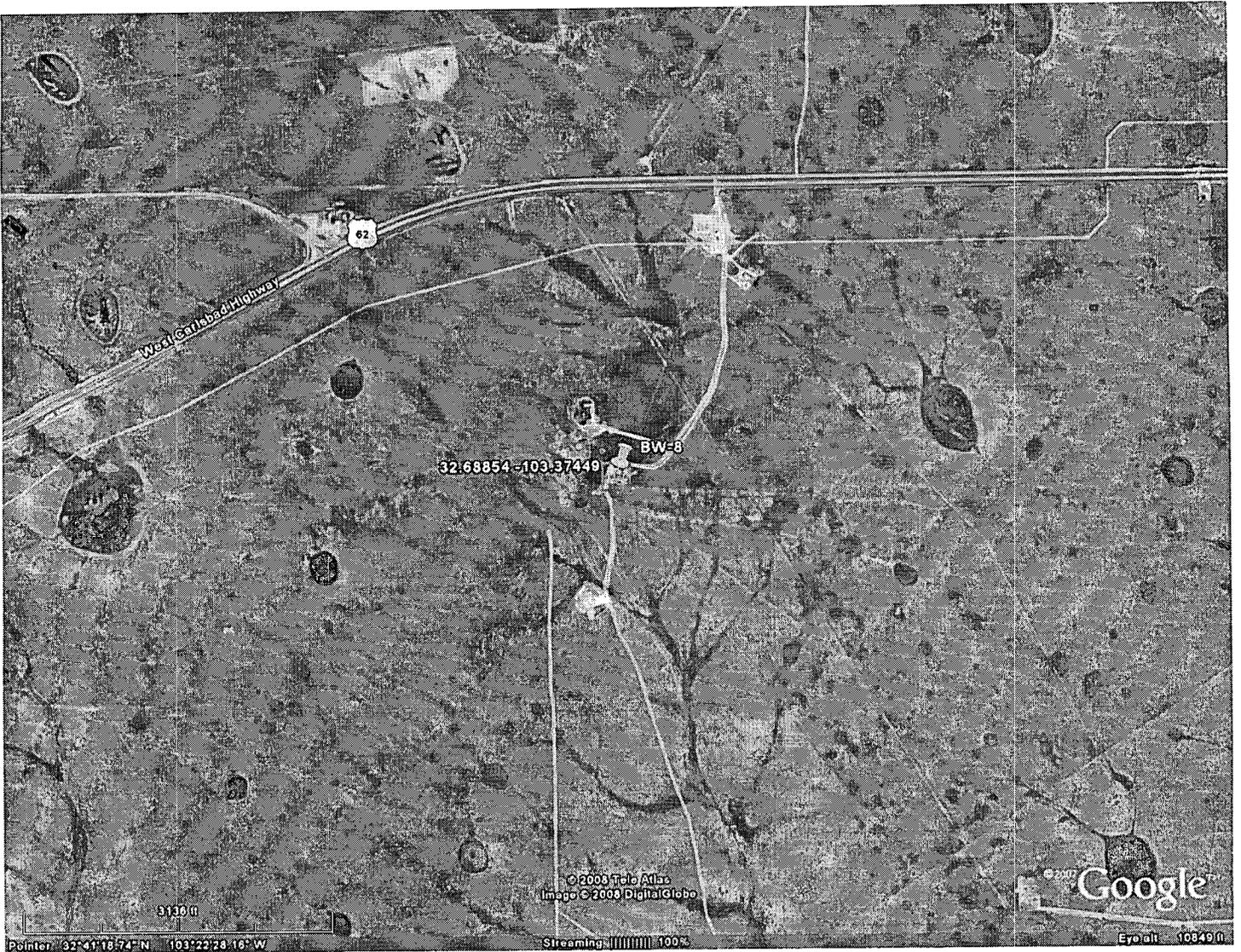
(This space for State Use)

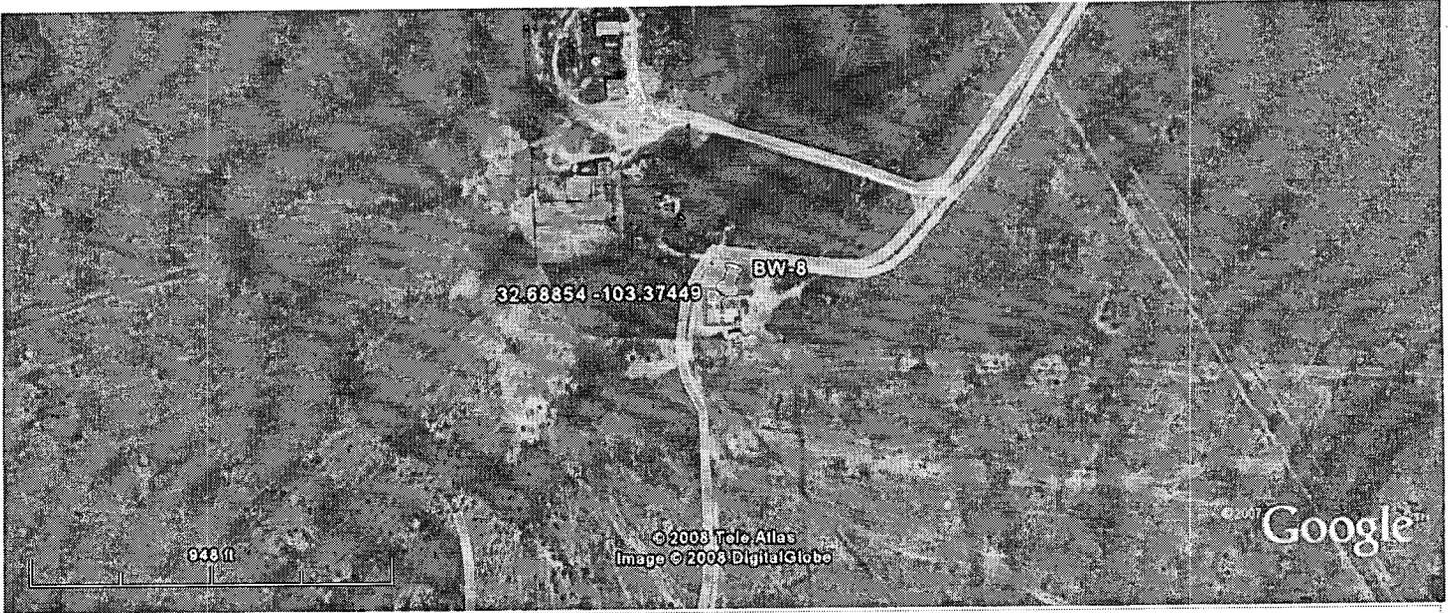
APPROVED BY Gary [Signature] TITLE SUPERVISOR DISTRICT 1 DATE MAY 1 1979

CONDITIONS OF APPROVAL, IF ANY:

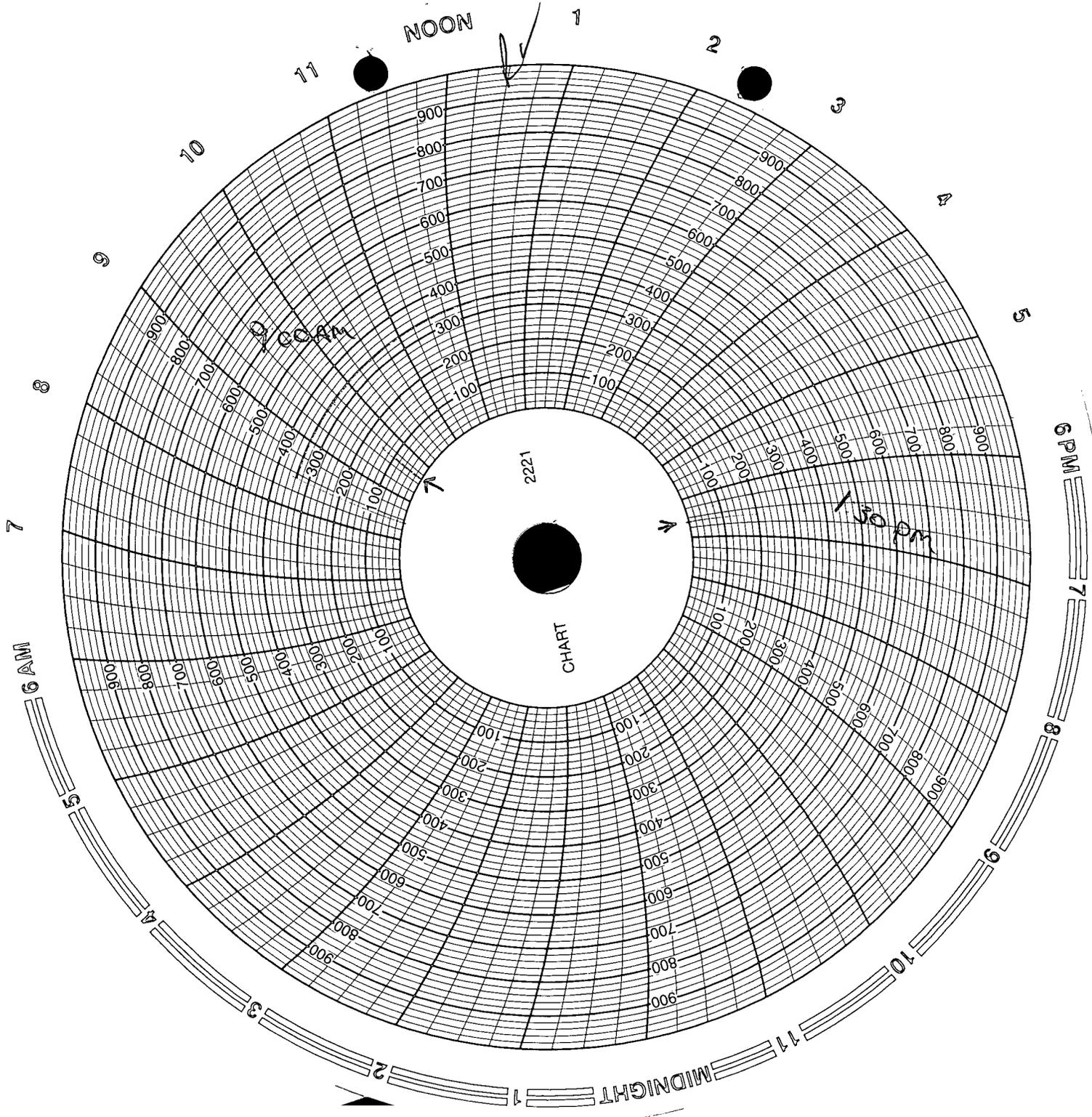
BW-8







32.68854 -103.37449



Orally Dos

12-29-05

Steve Edwards

505-393-8352

Cell 441-5548

Steve Edwards

Hebb's N/A Transport
P.O. Box 513
Hebb's 17M 882411

Paul Sheeley 12-29-05

Wayne.

2/05

Here is the original
for your files.

I have a copy.

Thanks. Julie Suckey
000 1.

PRINTED IN U. S. A.

DAY

NIGHT

ALIBRATED
CHARTS
DATAVIA, N.Y.

BR 2221

5 64600-8

10-14-04

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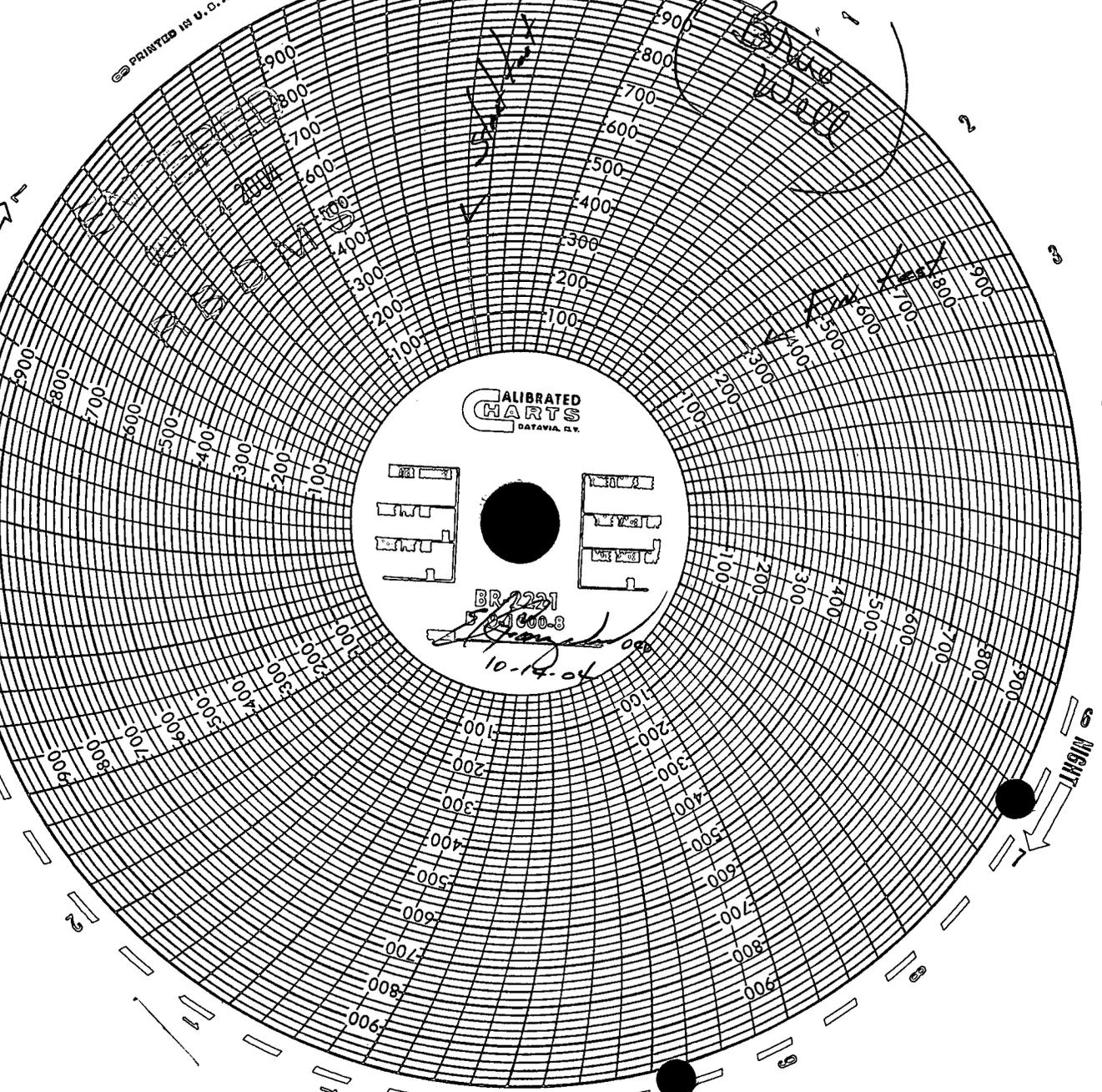
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Operator
= Salty Dog Inc.

~~EM~~ Well Name = Brine Supply
Salty Dog Supply #1 Well.
J.S. 19.36

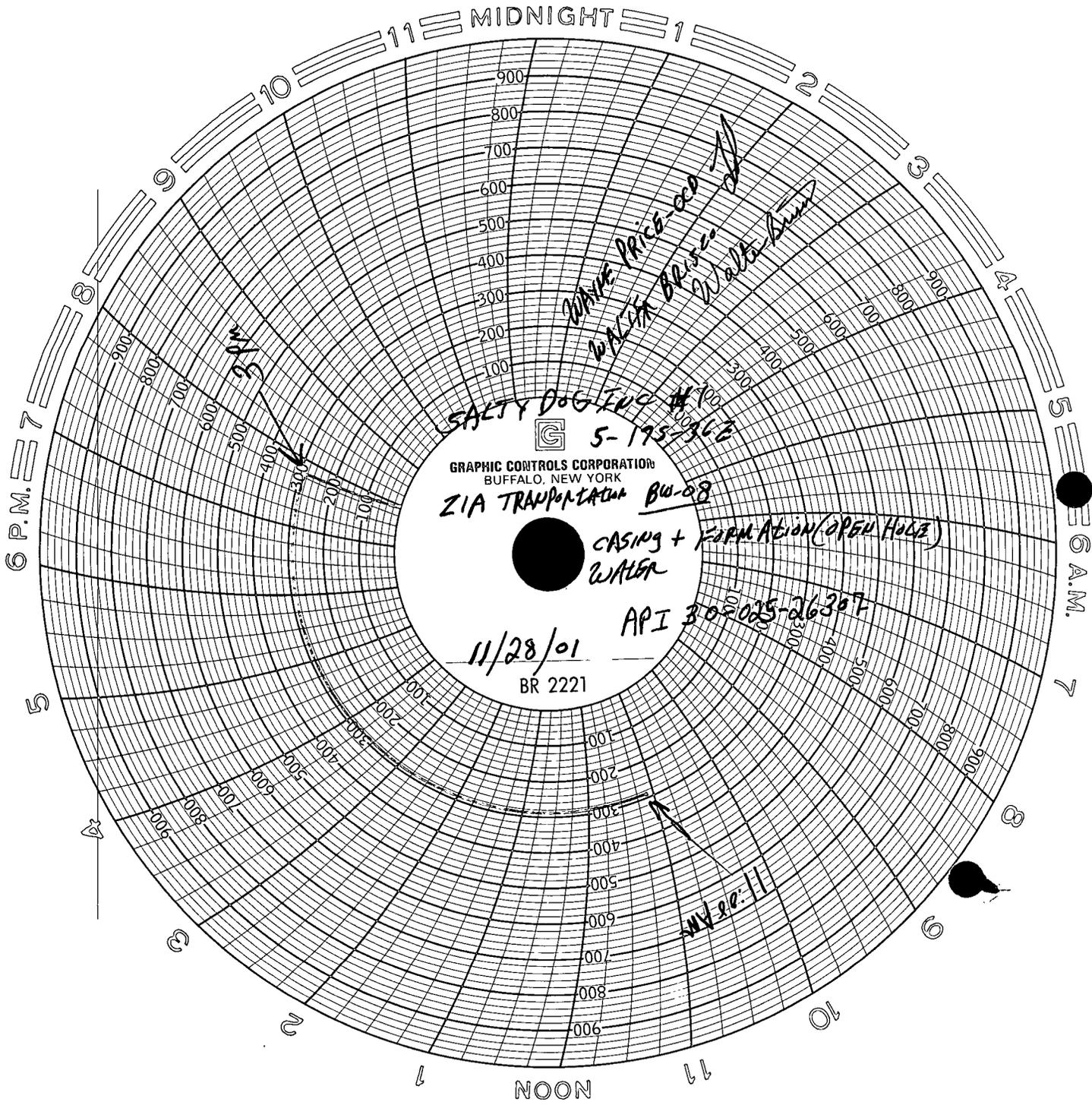
#1
30-025-26307

Gary Wink started test @ 10:45 AM
EGB - pulled chart @ 3:05 PM

Start PSI 300#
Fin PSI 300#
Time 4 Hrs. 20 min.


OCD 10-14-04

(Jim 390-3164)



SALTY DOG INC #10
5-195-362

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
ZIA TRANSPORTATION BU-88

CASING + FORMATION (OPEN HOLE)
WATER

11/28/01
BR 2221
API 30-025-26307

WATER PRICED
WATER BRIS
WATER BRIS

9:45
3:00

11:05 AM

American Valve & Meter, Inc.

113 W. Broadway
P.O. Box 166
Hobbs, NM 88240

BW-08

ZIA

To: _____

Date: 11/27/01

This is to Certify that:

I, JERRY MARTIN, Technician for American Valve & Meter, Inc.,

has checked the calibration of the following instrument

8" Pressure Recorder Serial Number _____

at these points.

Pressure 0-1000 [←]

Temperature _____

Test	Found	Left	Test	Found	Left
<u>0</u>	<u>0</u>	<u>0</u>	_____	_____	_____
<u>500</u>	<u>590</u>	<u>500</u>	_____	_____	_____
<u>1000</u>	<u>1000+</u>	<u>1000</u>	_____	_____	_____
<u>700</u>	<u>790</u>	<u>700</u>	_____	_____	_____
<u>200</u>	<u>290</u>	<u>200</u>	_____	_____	_____
<u>0</u>	<u>0</u>	<u>0</u>	_____	_____	_____

Remarks: _____

Signature

Jerry Martin



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

October 20, 2001

ZIA - SALTY DOG

BW - (8)

CERTIFIED MAIL

RETURN RECEIPT NO. 5357 7520

Attention: Brine Well Operators

Re: Mechanical Integrity Testing of Brine Supply Wells

The Underground Injection Control Program of the Federal Safe Drinking Water Act requires that operators demonstrate mechanical integrity of all injection wells by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and injection zones.

The Oil Conservation Division (OCD) requires operators of brine supply wells to perform the following mechanical integrity test:

1. At least once every five years isolate the cavern formation from the casing/tubing annuals and hydrostatic fluid pressure test the casing at 300 psig for 30 minutes. New brine wells and wells being worked over will have to be tested in this manner before operations begin.
2. Annually perform an open hole cavern formation pressure test by pressuring up the formation with fluids to one and one-half times the normal operating pressure or 300 psig whichever is greater for four hours. However, no operator may exceed surface injection or test pressures that may cause formation fracturing or system failures. Systems requiring test pressures less than 300 psig or methods that use testing media other than fluids, i.e. gas, must be approved by OCD prior to testing. Brine supply wells operating with isolation packers will have to pressure test both the cavern formation and casing/tubing annuals.

Please find enclosed an "OCD Brine Well Test Schedule November 2001" and "Brine Well Test Procedure Guidance Document" for this November 26 through November 30, 2001. Please have your well ready for testing on the date and time you are scheduled. Please refer to the Well Test Schedule attached for the Type of Test you are scheduled to perform. You must receive prior OCD approval to alter the scheduled time or type of test.

What's New!! Please note that operators are required to have their pressure recording devices calibrated to 500 psig and 8-hour clock. See Guidance Document attached.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

October 20, 2001

ZIA - SALTY DOG
BW-018

CERTIFIED MAIL
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What's New!! Please note that operators are required to have their pressure recording devices calibrated to 500 psig and 8-hour clock. See Guidance Document attached.

Brine Well Operators
Oct 20, 2001
Page 2

What's New!! All operators will provide to the OCD the maximum test pressure that will not cause formation fracturing or system failures.

Operators will be responsible for providing equipment and shall bear all costs incurred. All tests must be witnessed by the New Mexico Oil Conservation Division. Operators failing to abide by the procedures, type of test, and time schedules listed herein may be required to shut-in their systems until OCD has an opportunity to approve and witness testing.

If you require any further information or assistance please do not hesitate to write or call me at 505-476-3487 or E-mail WPRICE@state.nm.us.

Sincerely Yours,



Wayne Price- Senior Envr. Engr..
Environnemental Bureau

cc: OCD District Offices

Attachments- 1. OCD Brine Well Test Schedule November 2001
2. Brine Well Testing Procedure Guidance Document

Brine Well Testing Procedure Guidance Document

- 1) The cavern and all piping must be filled, pressured up and stabilized for a period of at least 24 hours prior to testing. If this test requires a packer then casing/tubing annulus must be loaded with inert fluid 24 hours prior to testing.
- 2) Have manpower and equipment available for pressure test. Wellhead shall be prepared for test and all valves and gauges should be in good working order.
- 3) Pumps, tanks, external lines etc. must be isolated from the wellhead during test.
- 4) A continuous recording pressure device with an 8-hour clock (min) shall be installed on the casing/tubing annulus. The pressure range shall not be greater than 500 psig. The operator must provide proof that the pressure-recording device has been calibrated within the past 6 months. **Note: Wells with packer installed: If this test requires both the casing/tubing annulus and cavern to be tested then two recording devices must be supplied or one recording device with two pins.**
- 5) A minimum of one pressure gauge shall be installed on the casing/tubing annulus.
- 6) OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). At the end of test operator may be required to bleed-off well pressure to demonstrate recorder and gauge response.
- 7) The Operator will supply the following information on the pressure chart:
 - A. Company Name, Well Name, API #, Legal Location.
 - B. Test Procedure (1) Casing + Formation (2) Casing Test Only (3) Both (4) Other
 - C. Testing Media: Water, Gas, Oil, Etc.
 - D. Date, time started and ending.
 - E. Name (printed) and signature of company representative and OCD Inspector
- 8) **TEST ACCEPTANCE:** The OCD will use the following criteria in determining if a well has passed the Mechanical Integrity Test:
 - A. **Passes** if Zero Bleed-Off during the test.
 - B. **Passes** if Final Test Pressure is within $\pm 1\%$ of Starting Pressure, if approved by the OCD inspector.
 - C. **Fails** if any Final Test Pressure is greater than $\pm 1\%$ of Starting Pressure. Operators must investigate for leaks and demonstrate that mechanical integrity of the well(s) by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and injection zones. Wells shall not resume operations until approved by OCD.

Note: OCD recognizes that different operations, well designs, formation characteristics and field conditions may cause variations in the above procedures. If operator wishes to make or anticipate changes please notify the OCD for approval. All operators are responsible to notify OCD of any procedure that may cause harm to the well system or formation. Please be advised that OCD approval does not relieve any operator of liability should operations result in pollution of surface water, groundwater, or the environment.

OCD BRINE WELL TESTING SCHEDULE 2001		OCD Contact Wayne Price cell 505-660-1087							
Company	DP#	Facility Name	Date of Test	Start	Stop	Type of Test(s) Required	Contact Person	Telephone	FAX #/cell
Steamers Inc.	BW-013	Crossroads Area Crossroads	28-Nov-01	12 noon	4:00 PM	2 Pressure test cavern	L.A. Stearns	1-505-675-2358	1-505-675-2338
Marbob Brine Well Jims Water Ser.	BW-028 BW-005	Loco Hills Area M. Dodd "A" BW#1 SE of Artesia	27-Nov 27-Nov	9:00 AM 10:00 AM	1:00 PM 2:00 PM	2 Pressure test cavern * Pressure test cavern or casing * 1,2 or 3	Doyle Davis Sammy Stoneman	748-5975 cell 1-505-748-1352	1-505-748-2523 1-505-748-3227
Key Energy Scuflock-Permian Zia Transportation Marathon Brine St	BW-018 BW-012 BW-018 BW-015	Hobbs Area Truckers #2 (Hobbs) Hobbs Station Sally Dog-Ark Jct Marathon Road	28-Nov-01 28-Nov-01 28-Nov-01 28-Nov-01	8:00 AM 9:00 AM 10:00 AM 11:30 AM	12 noon 1:00 PM 2:00 PM 3:30 PM	2 Pressure test cavern 2 Pressure test cavern 2 Pressure test cavern 1 Pressure Test Casing	Royce Crowell Richard Lentz Piter Bergstein CW Trainer	(505) 393-9171 505-392-8212 806-741-1080	505-910-4185 392-8988
P&S Brine Key Simms-McCaalnd Yale E. Key (Old Goldstar)	BW-002 BW-009A BW-028	Eunice Area Eunice Brine Station Eunice Brine Station Eunice Brine Station	28-Nov-01 28-Nov-01 28-Nov-01	8:00 AM 9:00 AM 10:00 AM	12 noon 1:00 PM 2:00 PM	2 Pressure test cavern 2 Pressure test cavern 2 Pressure test cavern	Dink Prather Royce Crowell Royce Crowell	505-394-2545 (505) 393-9171 1-505-394-2504	394-2428 505-910-4185 1-505-394-2560
I & W Key Energy-Carlsbad Scuflock/Permian	BW-06 BW-019 BW-027 & 27A	Carlsbad Area Carlsbad -Eugline Rowland Truckers Carlsbad Brine St.	30-Nov-01 30-Nov-01 30-Nov-01	8:00 AM 9:00 AM 10:00 AM	12 noon 1:00 PM 2:00 PM	2 Pressure test cavern 2 Pressure test cavern 2 Pressure test cavern	George Parchman John Hutcheson Richard Lentz	505-885-8683 1-505-885-2053 505-392-8212	885-8477 cell 390-1833 392-8988
Gandy Gandy Ray Westall	BW-04 BW-22 BW-21	Wells Already Tested In 2001 Wasserhund-Edison Tatum Brine St. Loco Hills Brine St.							
Chaparral SWD	BW-25	Wells Being Repaired- Salado Brine #2. Jat							
Notes:									
Type of Pressure Test:	1 Casing Test					isolate cavern formation from the casing/tubing annulus and hydrostatic fluid pressure test the casing at 300 psig for 30 minutes.			
	2 Open Hole Cavern Pressure Test					Open hole cavern formation pressure test by pressuring up the formation with fluid to one and one-half times the normal operating pressure or 300 psig whichever is greater for four hours. Operators shall not exceed surface pressures that may cause formation fracturing or system failures. OCD prior to test shall approve test pressures below 300 psig and methods that use media other than fluids. Brine supply wells operating with packers will have to pressure both the cavern formation and casing/tubing annulus.			
	3 Others					Nitrogen-Brine Interface Test, Nitrogen Test, Etc.			



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

October 20, 2000

CERTIFIED MAIL

RETURN RECEIPT NO.

5051 4478 BW-008 SALTY Dog

Attention: Brine Well Operators

Re: Mechanical Integrity Testing of Brine Supply Wells

The Underground Injection Control Program of the Federal Safe Drinking Water Act requires that operators demonstrate mechanical integrity of all injection wells by ensuring there are no leaks in the tubing, casing, or packer, and injected/produced fluids are confined within the piping and injection zones.

The Oil Conservation Division (OCD) requires operators of brine supply wells to perform the following mechanical integrity tests:

1. At least once every five years isolate the cavern formation from the casing/tubing annuals and hydrostatic fluid pressure test the casing at 300 psig for 30 minutes. New brine wells and wells being worked over will have to be tested in this manner before operations begin.
2. Annually perform an open hole cavern formation pressure test by pressuring up the formation with fluid to one and one-half times the normal operating pressure or 300 psig whichever is greater for four hours. Operators shall not exceed surface pressures that may cause formation fracturing or system failures. OCD prior to test shall approve test pressures below 300 psig and methods that use media other than fluids. Brine supply wells operating with packers will have to pressure both the cavern formation and casing/tubing annuals.

Please find enclosed an "OCD Brine Well Test Schedule December 2000" and "Brine Well Test Procedure Guidance Document" for this December 8th through 18th 2000. Please have your well ready for testing on the date and time you are scheduled. Please refer to the Well Test Schedule attached for the type of test you are scheduled to perform. You must receive prior OCD approval to alter the scheduled time or type of test.

Brine Well Operators

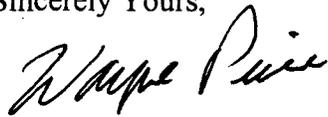
10/20/00

Page 2

Operators will be responsible for providing equipment and shall bear all costs incurred. All tests must be witnessed by the New Mexico Oil Conservation Division. Operators failing to abide by the procedures, type of test, and time schedules listed herein may be required to shut-in their systems until OCD has an opportunity to approve and witness testing.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,



Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD District Offices

- Attachments-
1. OCD Brine Well Test Schedule December 2000.
 2. Brine Well Testing Procedure Guidance Document.

Brine Well Testing Procedure Guidance Document

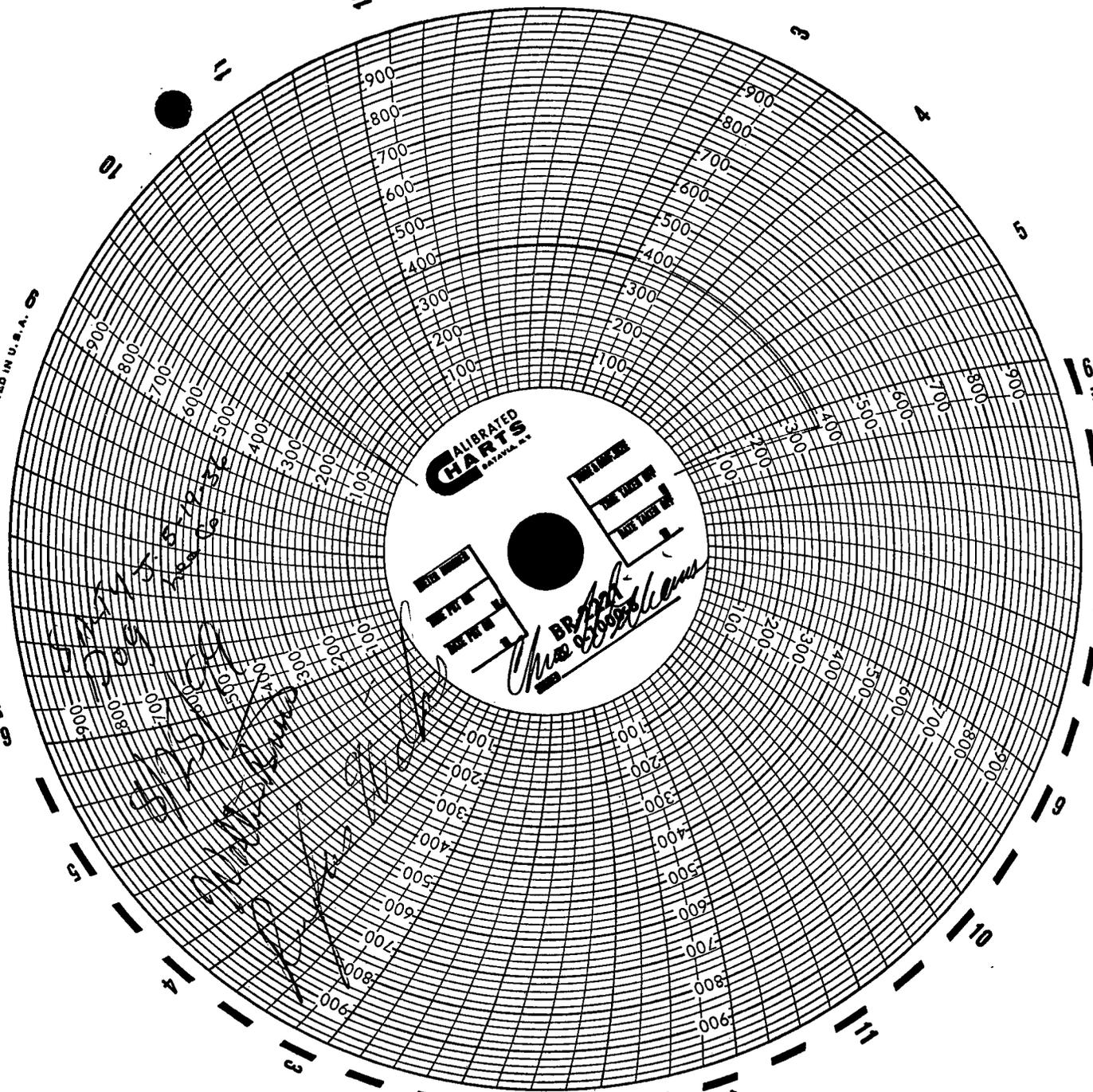
- 1) The cavern and all piping must be filled, pressured up and stabilized for a period of at least 24 hours prior to testing. If this test requires or utilizes a packer then the casing/tubing annulus must be loaded with inert fluid 24 hours prior to testing.
- 2) Have manpower and equipment available for pressure test. Well head shall be prepared for test and all valves and gauges should be in good working order.
- 3) Pressure devices i.e pumps, truck pumps, etc. must be isolated from the well head during test.
- 4) A continuous recording pressure chart with an 8 hour clock shall be installed on the casing/tubing annulus, as directed by the OCD, with a pressure range of not greater than 500 psig. The operator must provide proof that pressure recording device has a range of 0-500 psig and has been calibrated within the past 6 months. Wells, with isolation packers installed, which requires both the casing/tubing annulus and cavern to be tested will require two recording devices or one recording device with two pins. Operators may utilize other types of pressure recording devices, such as electronic data loggers, etc., if approved by OCD.
- 5) A minimum of one pressure gage shall be installed in the system as directed by OCD.
- 6) OCD must witness the beginning of test (putting chart on) and ending of test (removing chart). At the end of test operator may be required to bleed-off pressure to demonstrate recorder response.
- 7) **The Operator will supply the following information on the pressure chart before starting test:**
 1. Company name, discharge plan #, well name and number, legal location UL, section, township, range and county.
 2. Type of Test: Open Hole, Casing Test, or Both.
 3. Date, time test started, time stop.
 4. Chart and Recorder information. (can be attached)
 5. Normal operating surface and formation fracture pressure. (can be attached)
 6. **After Test Completed:**
Name (printed) and signature of company representative and OCD inspector.

Note: NMOCD recognizes that different operations, well constructions, well designs and field conditions may cause variations in the above procedures. Operator is responsible to notify OCD of any procedure that may cause harm to the well or formation. If operator wishes to make or anticipate changes you must notify the OCD for approval.

PRINTED IN U.S.A.

DAY

NIGHT



CALIBRATED CHARTS
BALTIMORE, M.D.

BRADSHAW & COMPANY

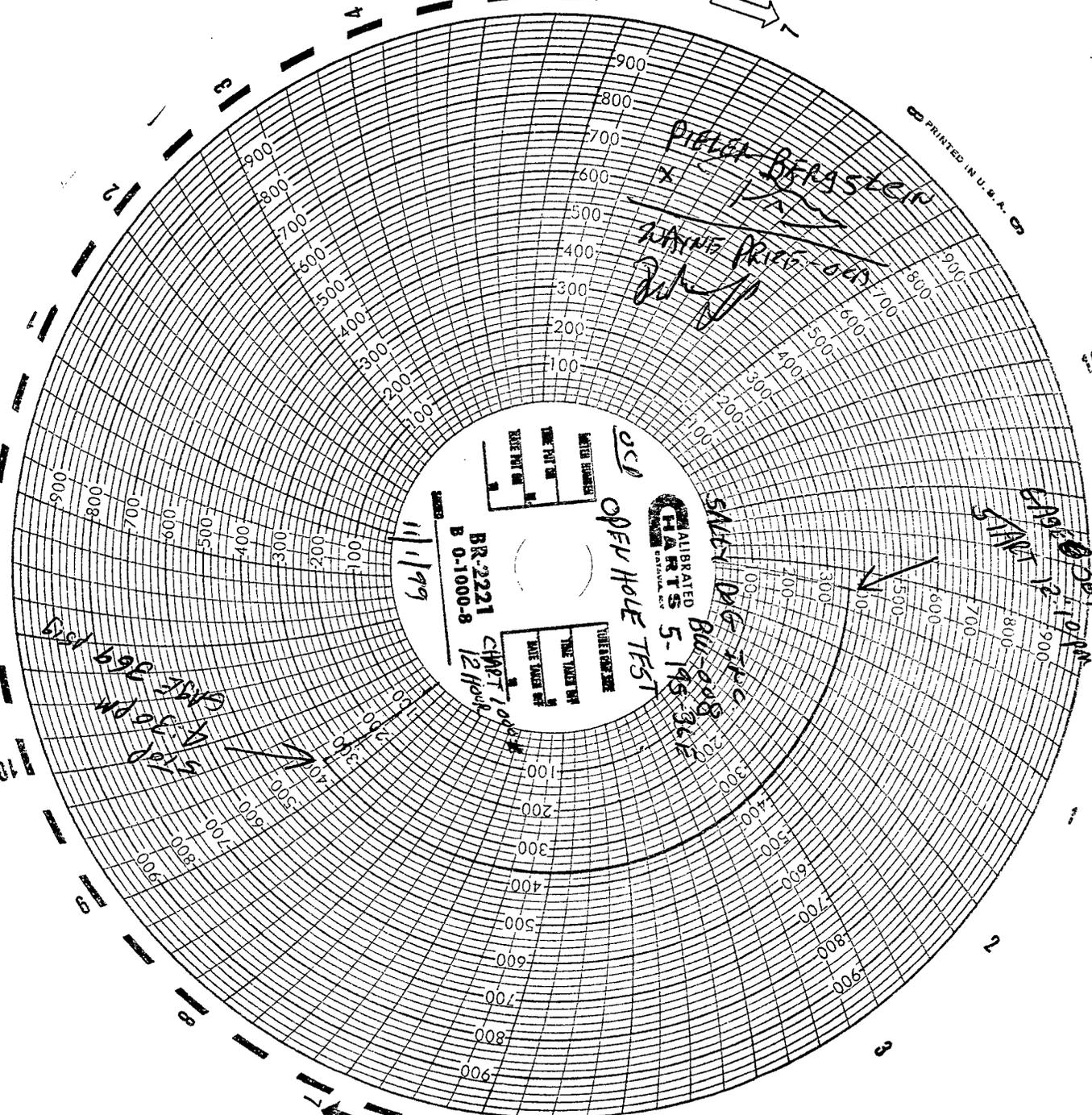
BRADSHAW & COMPANY

SUNSET 15:58
SUNRISE 06:00

PRINTED IN U.S.A. 57

DAY

NIGHT



Price BEAST
WHOLE PRICE
1/11/99

OCJ
 OPEN HOLE TEST
 CALIBRATED
 CHARTS
 5-145-366
 BR-2221
 B 0-1000-8
 11/1/99
 CHART 1000
 12 Hours

START 13 10 PM
9:55 AM
START 13 10 PM
9:55 AM

START 13 10 PM
9:55 AM

START 13 10 PM
9:55 AM

American

Valve & Meter Service

BW-008
SALTY DOG

1113 W. BROADWAY, HOBBS, N.M. 88240
P.O. BOX 1667, PHONE 505-393-578

TO Zia Transportation

DATE: 10-28-99

THIS IS TO CERTIFY THAT:

I, Jesse Young METER TECHNICIAN FOR AMERICAN VALVE, INC., HAS CHECKED THE CALIBRATION ON THE FOLLOWING INSTRUMENT. Cliff Rock

0-1000# pressure gauge SERIAL NUMBER _____

AT THESE POINTS.

TEMPERATURE _____

P.S.I. 0-1000#

TEST	AS FOUND	AS LEFT

TEST	AS FOUND	AS LEFT
<u>0</u>	<u>0</u>	<u>0</u>
<u>500</u>	<u>510</u>	<u>500</u>
<u>1000</u>	<u>1000+</u>	<u>1000</u>
<u>700</u>	<u>715</u>	<u>700</u>
<u>300</u>	<u>300</u>	<u>300</u>
<u>0</u>	<u>0</u>	<u>0</u>

REMARKS: _____

SIGNED: Jesse Young



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Fax: 1-806-741-1301

October 19, 1999

Mr. Piter Bergstein
Salty Dog Inc.
P.O. Box 2724
Lubbock, Texas 79408

806-741-1080

Re: Mechanical Integrity Testing of Brine Supply Wells.

This is a reminder that New Mexico Oil Conservation Division (NMOCD) will be witnessing mechanical integrity test for all brine supply wells during the time period between October 25 through November 2, 1999. A schedule was sent to each operator on September 11, 1999.

Please have your well ready for testing on the date and time you are scheduled. If there is some emergency which interferes with the scheduled date and time please call and notify NMOCD.

Failure to notify NMOCD may result in your operations being suspended until testing is complete.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155) or notify Mr. Roger Anderson at (505-827-7152).

Sincerely Yours,

A handwritten signature in cursive script, appearing to read "Wayne Price".

Wayne Price-Pet. Engr. Spec.
Environmental Bureau

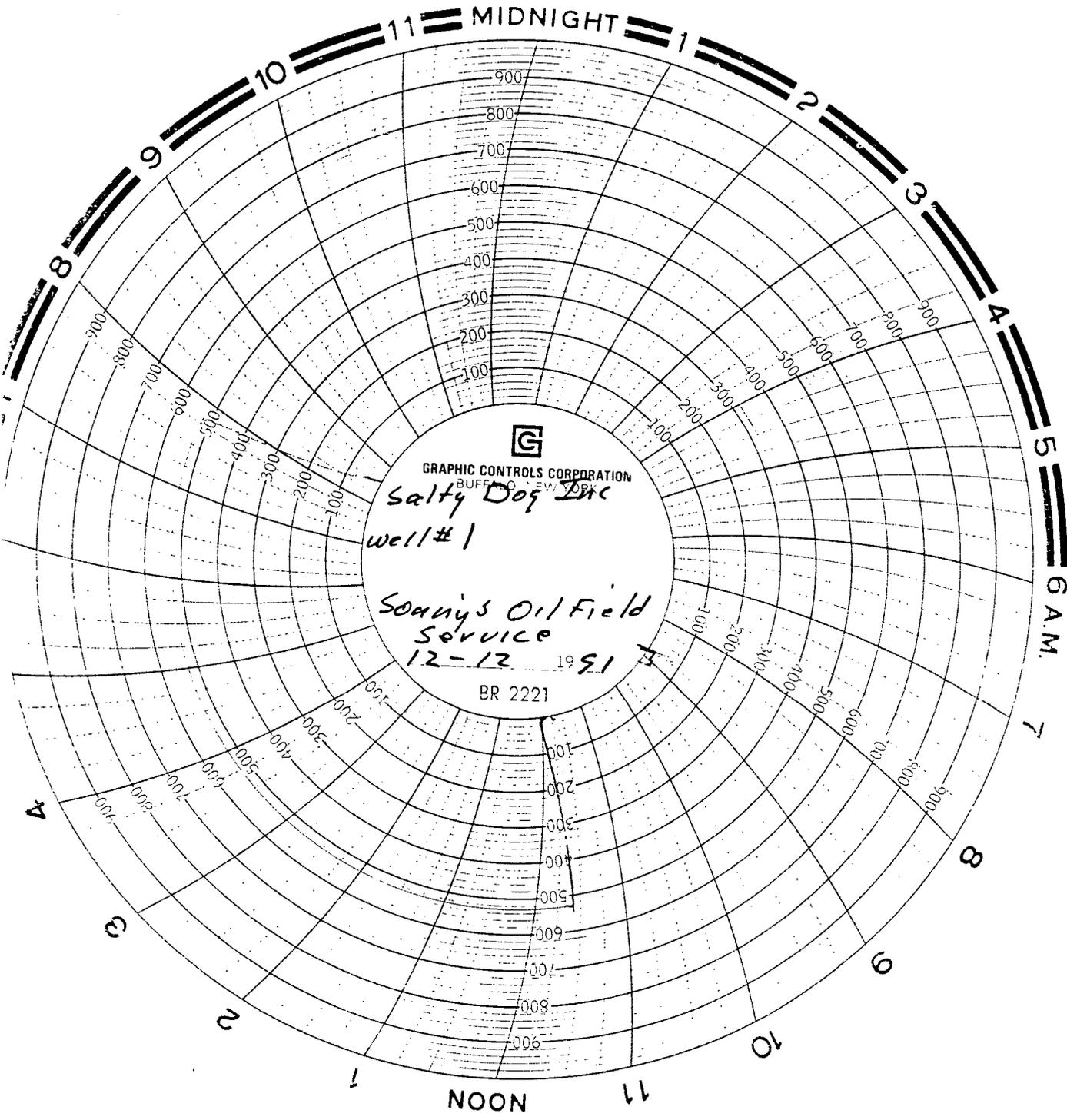
12-12-91

SALTY Dog INC
Well #1

SONNY OILFIELD SERVICE

OIL CONSERVATION DIVISION
RECEIVED
'91 DEC 26 AM 9 33

#7-2-5-19-26



PRINTED IN U.S.A.

DAY

5

3

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7

NIGHT

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4

3

2

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12

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10

CALIBRATED
HARTS
BATAVIA, N.Y.

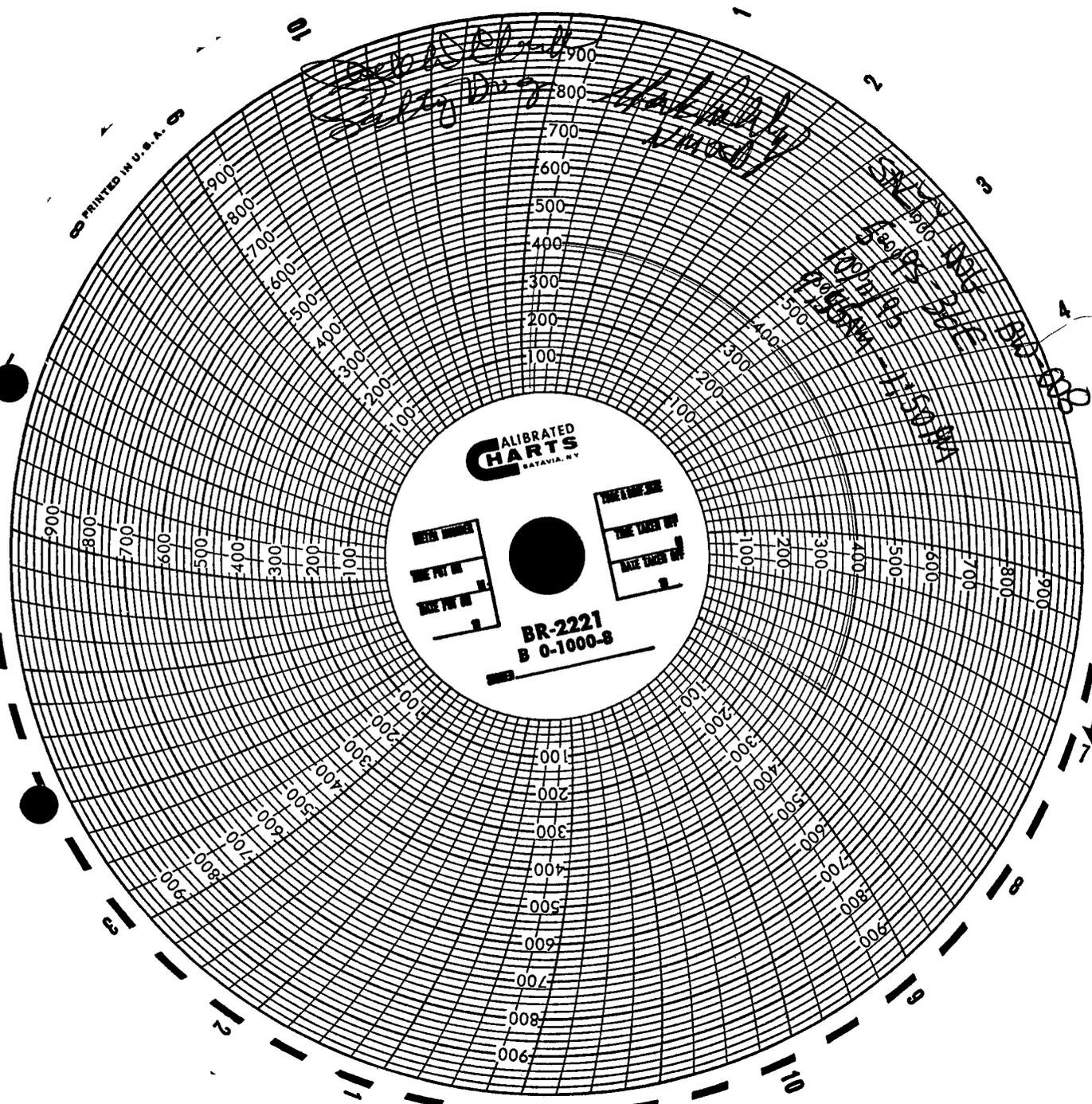
DATE RANGE
TIME TEST BY
DATE TEST BY

DATE RANGE
TIME TEST BY
DATE TEST BY

BR-2221
B 0-1000-S

Handwritten notes:
1000
800
700
600
500
400
300
200
100

Handwritten notes:
SUNNY
WINDY
TEMPERATURE
RELATIVE HUMIDITY
WIND DIRECTION
WIND VELOCITY
SEA STATE
VISIBILITY
CLOUDS
PRESSURE
WAVE PERIOD
WAVE HEIGHT
WAVE LENGTH
WAVE DIRECTION



OIL CONSERVATION DIVISION

October 13, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-778

Mr. Jack Clark
Salty Dog, Inc.
P.O. Box 1438
Hobbs, NM 88240

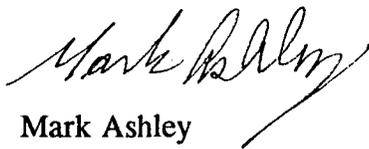
Re: Discharge Plan BW-008
Salty Dog, Inc. Water Station
Mechanical Integrity Test
Lea County, New Mexico

Dear Mr. Clark:

The New Mexico Oil Conservation Division would like to thank you for your cooperation during the October 11, 1995 Mechanical Integrity Test of the Salty Dog, Inc. brine well. Enclosed is a copy of the chart for your records.

Should you have any further questions regarding your facility, please call me at (505) 827-7155.

Sincerely,



Mark Ashley
Geologist

Attachments

xc: OCD Hobbs Office

Z 765 962 778



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

OIL CONSERVATION DIVISION

August 25, 1995

Certified Mail
Return Receipt No. Z-765-962-762

Mr. Jack Clark
Salty Dog, Inc.
P.O. Box 1438
Hobbs, NM 88240

**RE: Mechanical Integrity Testing of Brine Supply Well
Salty Dog, Inc. Water Station
Lea County, New Mexico**

Dear Mr. Clark:

The Underground Injection Control Program of the Federal Safe Drinking Water Act requires that operators demonstrate mechanical integrity of all injection wells by ensuring that there is no leak in the tubing, casing, or packer, and that the injected fluid is confined within the injection zone through proper cementing.

As part of the Federal Safe Drinking Water Act, all injection wells will be required to have an annual open hole pressure test equal to one and one-half of the normal operating pressure for four hours, or 500 psi for four hours, which ever is greater. In addition to that, all injection wells will be required to isolate the casing from the formation and test to 300 psi for 30 minutes prior to commencement of operations, at least once every five years or at the time of discharge plan approval, and during well work overs.

Operators will be responsible for providing equipment and shall bears costs incurred. The date and time of all tests will be scheduled and witnessed by the New Mexico Oil Conservation Division.

As of this date Salty Dog, Inc. has not performed the required mechanical integrity test which was to be completed by May 30, 1995.

Please have your well ready for testing on September 12, 1995 at 8:00 AM as outlined below.

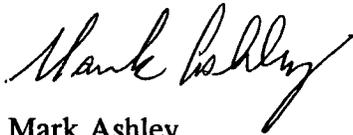
- 1) Have tubing pulled and casing isolated from the formation.

Mr. Jack Clark
August 25, 1995
Page 2

- 2) Pressure test casing to 300 psi for 30 minutes.
- 3) Have continuous recording pressure chart with maximum two hour clock.
- 4) Have well head prepared for test. Valves should be in working order.
- 5) Have manpower and equipment available for pressure test.

If you have any questions regarding this matter, please feel free to contact me at (505) 827-7155.

Sincerely,



Mark Ashley
Geologist

xc: Jerry Sexton, OCD Hobbs Office
Wayne Price, OCD Hobbs Office

Z 765 962 762



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993