

**MECHANICAL
INTEGRITY
TESTS**



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://emnr.state.nm.us/ocd/District III/3district.htm>

RCVD FEB 10 '14
OIL CONS. DIV.
DIST. 3

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 2-10-14 Operator Agua Moss API #30-0 45-28653
Property Name Sunco Dr Well No. 1 Location: Unit E Section 2 Township 29 Range 12
Well Status (Shut-In or Producing) Initial PSI: Tubing 1100 Intermediate N/A Casing 20 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE				
	Bradenhead		INTERM		
	BH	Int	Csg	Int	Csg
5 min	0		20		
10 min	0		20		
15 min	0		20		
20 min					
25 min					
30 min					

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		
Surges		
Down to Nothing		
Nothing	✓	
Gas		
Gas & Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE N/A

REMARKS: Nothing when opened.

By [Signature]

Witness [Signature]

(Position)

E-mail address _____



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

RCVD FEB 10 '14
OIL CONS. DIV.
DIST. 3

MECHANICAL INTEGRITY TEST REPORT

(TA OR UIC)

Date of Test 2-10-14 Operator Agua Moss API # 30-0 45-28653

Property Name Sunco Disposal Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:

State _____
Federal _____
Private /
Indian _____

Well Type:

Water Injection _____
Salt Water Disposal /
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N) (N)

TA Expires: _____

Casing Pres. 0
Bradenhead Pres. 0
Tubing Pres. 1100
Int. Casing Pres. NA

Tbg. SI Pres. _____
Tbg. Inj. Pres. _____

Max. Inj. Pres. 2400

Pressured annulus up to 380 psi. for 30 mins. Test passed failed

REMARKS:

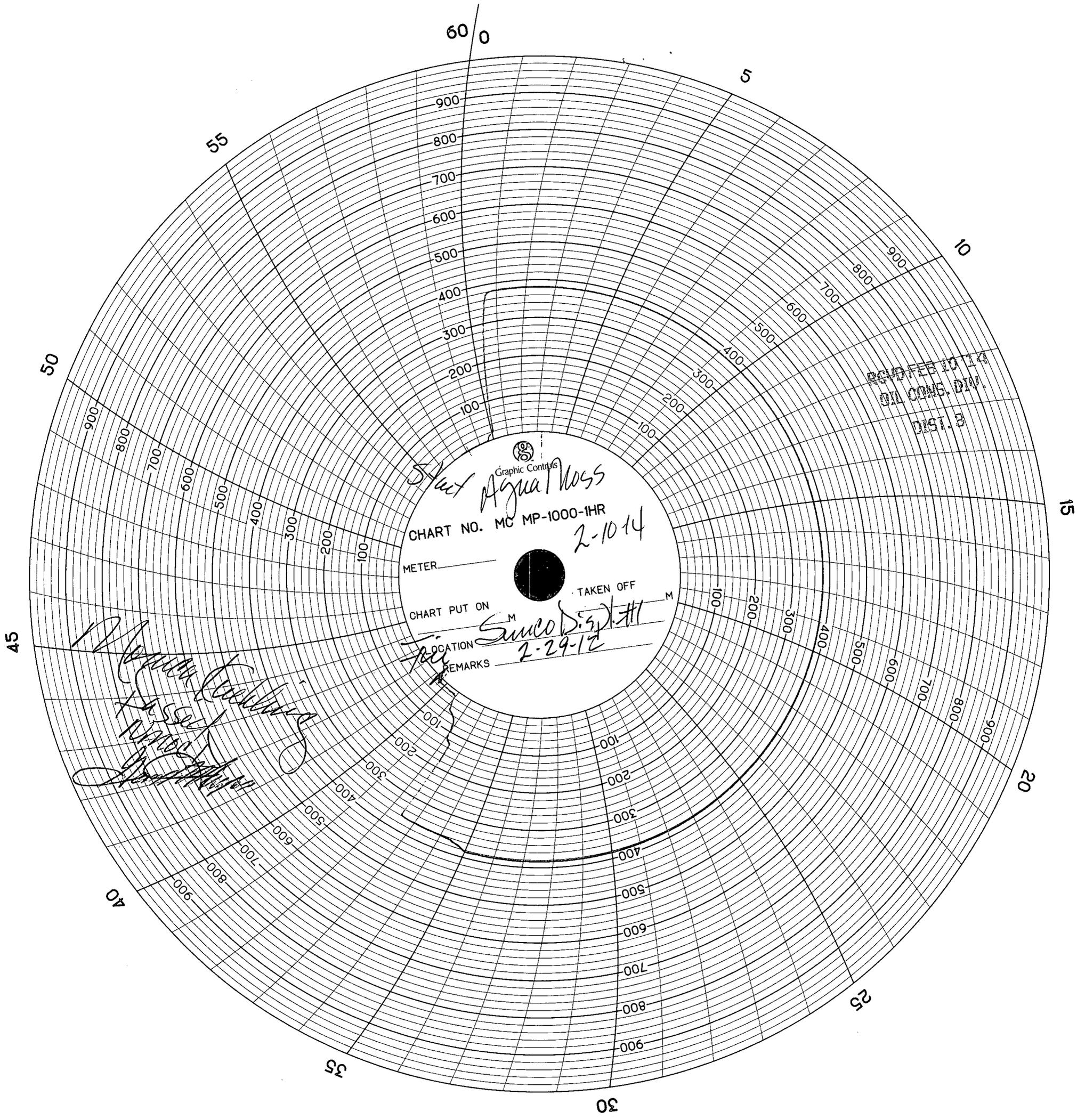
packer at 4282 perf 4350-4460

By [Signature]
(Operator Representative)

Witness [Signature]
(NMOCD)

(Position)

Revised 02-11-02



000 FEB 10 14
 OIL CONS. DIV.
 DIST. B

Graphic Controls
 Start Agua Ross
 CHART NO. MC MP-1000-1HR
 2-10-14
 METER _____
 CHART PUT ON _____
 TAKEN OFF _____
 LOCATION Suncos S. J. #11
 REMARKS 2-29-12

[Handwritten signature]
 HESSOCK
 HESSOCK
 HESSOCK



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT

(TA OR UIC)

Date of Test 2-26-14 Operator Aguar Bloss API # 30-0 45-28653

Property Name Sunco Disposal Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:

State _____
Federal _____
Private
Indian _____

Well Type:

Water Injection _____
Salt Water Disposal
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____ TA Expires: _____

Casing Pres. 0
Bradenhead Pres. 0
Tubing Pres. 1300
Int. Casing Pres. N/A

Tbg. SI Pres. _____
Tbg. Inj. Pres. _____

Max. Inj. Pres. DIST. 3

OIL CONS. DIV.
RCVD FEB 26 '14

Pressured annulus up to 380 psi. for 30 mins. Test passed/failed

REMARKS:

Packer Det 4282
to Perf. 4380-4460

By [Signature]
(Operator Representative)

Witness Monica Truckling
(NMOCD)

[Signature]
(Position)

Revised 02-11-02



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary - Designee

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



December 6, 2011

Mr. Dan Gibson
Key Energy Services, LLC
6 Desta Drive, Suite 4400
Midland, Texas 79705

Re: Letter of Violation Class I (Non-Hazardous) Injection Well Discharge Permit
SUNCO Disposal Well #1 UIC-CLI-005 (I-005) Oil Field Waste Disposal Well, San Juan
County, New Mexico (SUNCO Disposal Well #1 API# 30-045-28653)

Dear Mr. Gibson:

The OCD appreciates Key's prompt response the letter of violation issued on October 20, 2011. The required MIT of the SUNCO Disposal Well #1 was completed on October 31, 2011 and was witnessed by Monica Kueling, of the OCD's Aztec District office. The violation has been resolved by conducting and passing the MIT and Key is now in good standing with the OCD. If you have any questions regarding this letter, please feel free to call me.

Sincerely,



Daniel Sanchez
UIC Director
(505)476-3493





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT (TA OR UIC)

Date of Test 10-31-11 Operator Key Energy API # 30-045-28653 Property Name Sunco Disposal Well # 1 Location: Unit Sec 2 Twn 27 Rge 12

Land Type: State, Federal, Private (marked with X), Indian Well Type: Water Injection, Salt Water Disposal (checked), Gas Injection, Producing Oil/Gas, Pressure observation

Temporarily Abandoned Well (Y/N) TA Expires:

Casing Pres. 0, Bradenhead Pres. 0, Tubing Pres. 1800, Int. Casing Pres. N/A, Tbg. SI Pres., Tbg. Inj. Pres., Max. Inj. Pres., DIST. 3

Pressured annulus up to 340 psi. for 30 mins. Test passed/failed OIL CONS. DIV.

REMARKS: 4350-4460, 4282, RCVD OCT 31 '11

By [Signature] (Operator Representative) Witness [Signature] (NMOCD)

KEY-CONSULT-AGENT (Position)

Revised 02-11-02

AV

SJ MEASUREMENT LLC

STANDARDS FACILITY

SJ MEASUREMENT LLC

CERTIFICATION OF PHYSICAL MEASURING INSTRUMENTS
0.005% I.V. MASTER ACCURACY LEVEL GUARANTEED

DATE : 10-28-11 CUSTOMER : SJ MEASUREMENT RENTAL
 TYPE : BARTON 242E DISTRICT : SAN JUAN BASIN
 PRESSURE RANGE: 0-1000 PSIG TEMP. RANGE NA
 SERIAL NUMBER: 43400 P.O. NO. :
 TEST REF TEMP. 20 DEG. C RECAL DATE : 4-28-12

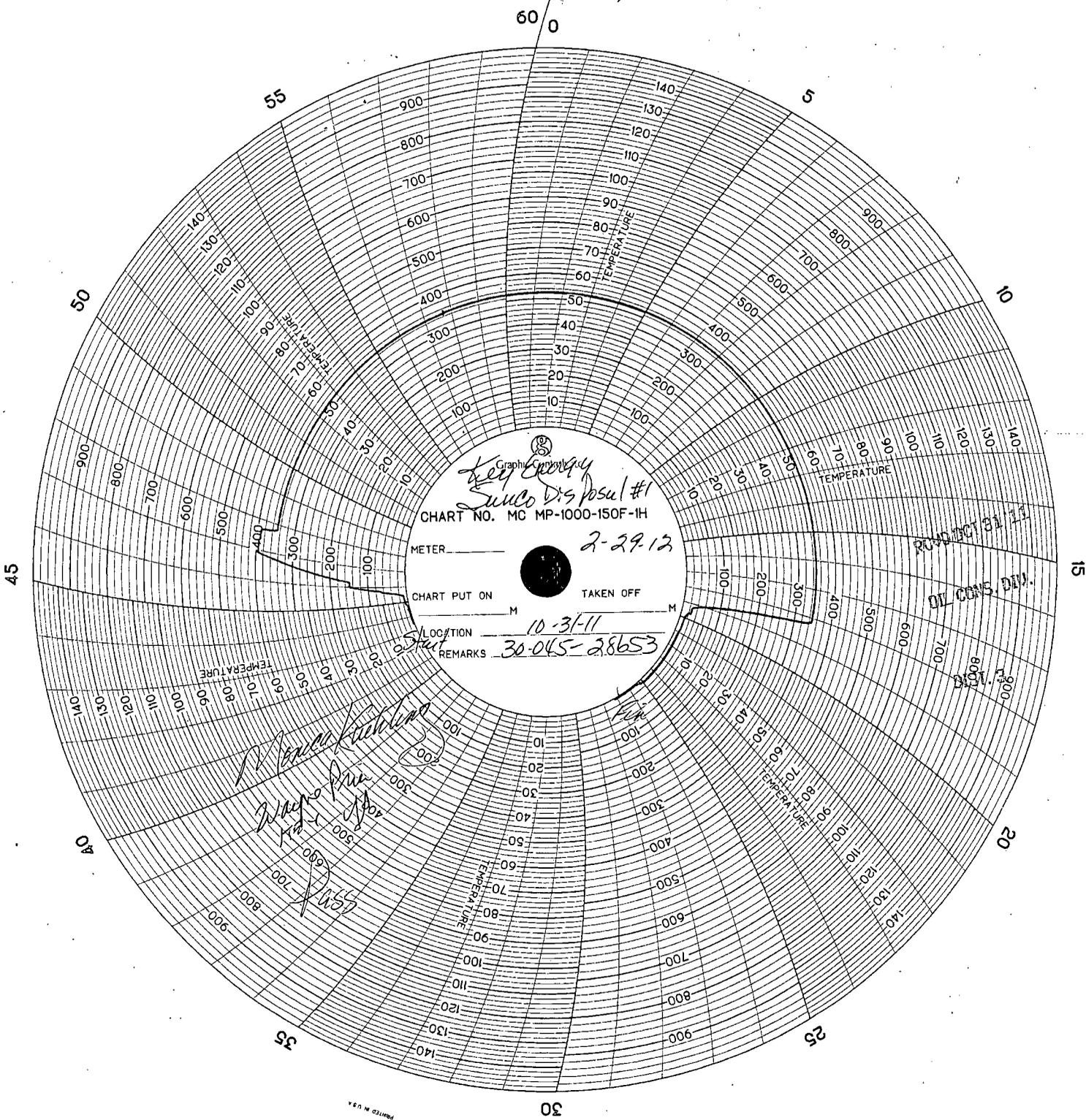
PRESSURE STANDARDS REFERENCED TO N.I.S.T. (PC-20) (WS-16)
 N.I.S.T. MASS REPORT REF. NO. (106354 106354A 106354B)
 PRESSURE REFERENCED @ 980.665 cm/sec. Gravity
 TEMPERATURE REFERENCED TO NIST NO. 227121

PRESSURE APPLIED	STATIC READING	JOFFRA READING	TEMPERATURE READING	DIST. 3
100.0	100.0	15.0	NA	OIL CONS. DIV.
200.0	200.0	30.0	NA	
300.0	300.0	45.0	NA	
400.00	400.00	60.0	NA	RCVD OCT 31 '11
500.00	500.00	75.0	NA	
600.00	600.00	90.0	NA	
700.00	700.00	105.00	NA	
800.00	800.00	120.00	NA	
900.00	900.00	135.00	NA	
1000.00	1000.00	150.00	NA	

ATTESTED BY :

[Handwritten Signature]
 TECHNICAL





Key Energy
Graphical Company

CHART NO. MC MP-1000-150F-1H

METER _____ 2-29-12

CHART PUT ON _____ M TAKEN OFF _____ M

LOCATION 10-31-11

REMARKS 30-045-28653

Handwritten notes:
Suco Disposal #1
2-29-12
10-31-11
30-045-28653
Key Energy
Graphical Company

Handwritten notes:
20-000-01-11
OIL COND. DIV.

SJ MEASUREMENT LLC

STANDARDS FACILITY

SAN JUAN MEASUREMENT

CERTIFICATION OF PHYSICAL MEASURING INSTRUMENTS
 0.005% I.V. MASTER ACCURACY LEVEL GUARANTEED

DATE : 10-31-11 CUSTOMER : WEATHERFORD WELLHEAD
 TYPE : WIKA DISTRICT : SAN JUAN BASIN
 PRESSURE RANGE : 0-100 PSIG PURCHASE # :
 SERIAL NUMBER: # WFG100 ACTUAL ACCURACY: (0.095%FS) or (0.40%IV)
 TEST REF TEMP. : 20 DEG. C RECAL DATE : 1-30-12

PRESSURE STANDARDS REFERENCED TO N.I.S.T. (PC-67, WS-13 and WS-105.)
 Ruska transfer standards are maintained according to calibration
 procedure CS-125 requirements of ANSI/NCSL Z540-1-1994, ISO 9001
 and MIL-STD-45662A

DIST. 3

OIL CONS. DIV.

INDICATED P.S.I.	MODULE P.S.I.	GAUGE READING	PRESSURE CORRECTION	RCVD OCT 31 11 PERCENT ERROR
10.00000	10.00050	10.00	0.00050	-0.00500%
20.00000	20.00100	20.00	0.00100	-0.00500%
30.00000	30.00150	29.90	0.10150	-0.33832%
40.00000	40.00200	39.50	0.50200	-1.25494%
50.00000	50.00230	48.75	1.25230	-2.50448%
60.00000	60.00270	58.50	1.50270	-2.50439%
70.00000	70.00320	68.00	2.00320	-2.86158%
80.00000	80.00360	78.50	1.50360	-1.87942%
90.00000	90.00410	89.50	0.50410	-0.56009%
100.00000	100.00460	99.50	0.50460	-0.50458%

PRECISION ERROR : +/- 0.0015%
 REPEATABILITY : +/- 0.0035%
 BIAS ERROR : +/- 0.3950%
 ACTUAL ACCURACY : +/- 0.4000%

ATTESTED BY :

[Signature]
 Lab Technician



Chavez, Carl J, EMNRD

From: wayne price [wayneprice77@earthlink.net]
Sent: Thursday, October 27, 2011 7:43 AM
To: Kuehling, Monica, EMNRD; VonGonten, Glenn, EMNRD; Chavez, Carl J, EMNRD
Cc: Dan Gibson
Subject: Re: Key Farmington UIC-5 MIT Test
Attachments: Oct MIT C-103.pdf

Morning! I have attached a C-103

On Oct 27, 2011, at 7:28 AM, Kuehling, Monica, EMNRD wrote:

Good morning Wayne,

Sounds good.

Please use a chart sheet that matches the spring on the chart recorder.

I will see you on Monday.

Thank you. Have a good weekend.

Monica Kuehling

Compliance Officer
NM Oil Conservation Division
Aztec New Mexico
Office Phone 505-334-6178
Cell Phone 505-320-0243

From: wayne price [<mailto:wayneprice77@earthlink.net>]
Sent: Wednesday, October 26, 2011 5:05 PM
To: Kuehling, Monica, EMNRD; Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD
Cc: Steve Wilson; keith.schoch@weatherford.com; wherrera@keyenergy.com; Dan Gibson
Subject: Key Farmington UIC-5 MIT Test

Dear Monica,

Ok, we are set for 10 am Monday morning Oct 31, 2011.

We will pump up the annulus to 350 psig, put on chart with 1000# range, with one hour clock. The Chart recorder will be calibrated before test. Weatherford is running the test, witness by Key and OCD. We will also check the pump cut-off switch and do a bradenhead survey.

Here is the following contacts:

Keith Schock Weatherford cell 505-320-9418

Wayne Price- Key 505-715-2809

Monica Kuehling (505) 320-0243

Wes Herrera- 505-330-4191

Steve Wilson- 505-93-6938

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. 30-045-29002
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE XX <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name
8. Well Number Sunco #1
9. OGRID Number 209522
10. Pool name or Wildcat

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 Injection Well

2. Name of Operator Key Energy Services LLC

3. Address of Operator
6 Desta Drive Suite 4400 Midland TX 79705

4. Well Location
 Unit Letter E : _____ feet from the _____ line and _____ feet from the _____ line
 Section 2 Township 29N Range 12W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK xx <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.

Check Bradenhead-Run MIT-Check Inj Well Pump Hi-Press SW.

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 

TITLE Agent-Consultant

DATE Oct 27, 2011

Type or print name Wayne Price
For State Use Only

E-mail address: wayneprice77@earthlink.net

PHONE: 505-715-2809

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit 1 Copy To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 October 13, 2009

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

WELL API NO. 30-045-28653
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. <i>na</i>
7. Lease Name or Unit Agreement Name <i>na</i>
8. Well Number <i>Key (Sunco) Disposal Well #1</i>
9. OGRID Number
10. Pool name or Wildcat <i>Injection into Point-Lookout formation</i>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

2. Name of Operator
Key Energy Services, Inc.

3. Address of Operator
6 Desta Drive, Suite 4400, Midland, TX 79705

4. Well Location
 Unit Letter: **E 1595** feet from the **North** line and **1005** feet from the **West** line
 Section **2** Township **29N** Range **12W** NMPM County **San Juan**

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: Run Annual Class I MIT and Fall-Off Test Per UIC-CLI-005 permit conditions.	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <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.

Attached #1: Key Energy Sunco #1 SWD 2010 Fall-Off Test procedure write up: 2 pages

Attached #2: Key will abide by specific instructions from the OCD Santa Fe office: E-mail attached from Carl Chavez dated July 8, 2010: 1 page

In addition, Key will abide by any OCD-Aztec request:

Start Date:
 Spud Date: **July 8, 2010** Rig Release Date: **July 16, 2010**

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

SIGNATURE *Wayne Price* TITLE **Agent for Key Energy Services, Inc.** DATE **July 2, 2010**

Type or print name **Wayne Price-Price LLC** E-mail address: **waynceprice77@earthlink.net** PHONE: **505-715-2809**
For State Use Only:

APPROVED BY: *Carl J. Chavez* TITLE **Environmental Engineer** DATE **7/2/2010**
 Conditions of Approval (if any):

Comply with OCD July 2, 2010 e-mail notification & approved Fall-off test plan.

Key Energy: Sunco #1 SWD 2010 Fall-Off Test

Once again, I am coordinating the OCD required annual fall-off test (FOT) for Key Energy Services.

The test plan schedule is as follows:

Date	Start Time	Event	Remarks
Thursday, July 8, 2010	9 AM	RU WL, RIH to check TD	Ensure perforations are open
Thursday, July 8, 2010	1 PM	Mechanical Integrity Test	Notify Aztec OCD 48-hrs in advance
Friday, July 9, 2010	7 AM	Begin 96-hr pre-conditioning period	2000 Bpd constant injection period
Tuesday, July 13, 2010	7 AM 9 AM	RU WL, RIH w/ tools SI injection to begin FOT	RU Tefteller, run pressure bombs to mid-perfs, Shut-in for 72-hours
Friday, July 16, 2010	9 AM	End FOT, pull and download data	POOH making gradient stops

The 4-step process will run from July 8th-16th in the following sequence:

1. Wellbore **mechanical integrity** test: initial several hours
2. Injection well **conditioning** period: constant-rate injection for the next 96-hours
3. **Fall-Off** test: shut-in the well for the next 72-hours
4. **Reporting** to OCD/EPA upon receipt of the test data from Key Energy and Tefteller.

Mechanical – I will set up Tefteller, Inc. to rig up on the well with a slickline unit and run a gauge ring down and out the end of tubing to ensure they can get their expensive pressure bombs to bottom. This will also ensure that the injection perforations are not covered by any fill. After Tefteller is finished we will need to rig up a Key pump truck and pressure test the casing/tubing annulus to 500 psi. The test results must be recorded on a 24-hour circular chart recorder for submission to the OCD-Aztec office. The OCD must be notified at least 48-hours in advance of the test so one of their representatives can be present for the testing. I will take care of this notification to the OCD. Your field supervisor at the disposal facility should arrange for the Key pump truck (and fresh water).

Conditioning – it will be necessary to inject into the well at a constant rate for an uninterrupted 96-hour period. The main triplex pump should be run at its normal operating speed. Any injection upsets that affect the rate significantly will cause the conditioning period to be aborted and dictate that a new conditioning period be recommenced. To avoid potential pump problems any scheduled pump maintenance should be done in advance as to limit the possibility of a pump shutdown or failure during the conditioning period. New water filters should be in place. Prior to conditioning the facility should “bank” enough disposal fluid volume to ensure uninterrupted injection. 20,000 bbls should be adequate. A 24-hour chart recorder should capture the wellhead injection pressure data. The chart should be changed at 8 AM each day. A log sheet should be kept that can substantiate and demonstrate a near-constant injection rate during the conditioning period. This log sheet and the four (4) pressure charts will be included in the Final Report that will be submitted to the OCD and the EPA.

Fall-Off Test – I will arrange for Tefteller to be on location to run tandem pressure bombs at the end of the conditioning period. They will run into the hole a few hours prior to the end of the conditioning period without interrupting or diminishing the injection rate. Once their bombs are on-bottom they will record the stabilized bottomhole injection pressure for about two hours. Afterwards the main triplex pump can be stopped and the flowline injection valve closed. 72-hours of bottomhole pressure will be

captured by the electronic downhole memory gauges. The 24-hour surface circular recorder will continue to record the shut-in surface pressure. Once again, the chart should be changed at 8 AM on a daily basis and retrained for inclusion in the final report. At the conclusion of the test the bombs will be pulled while making the necessary gradient stops along the way. Once Tefeller is rigged down the facility can resume normal facility operations.

Reporting – I will take the raw field data back to Midland and prepare the required reports for the OCD. Your field personnel should make copies of the documents that are sent back with me to Midland.

From: "Chavez, Carl J, EMNRD" <CarlJ.Chavez@state.nm.us>
Subject: **July 8, 2010 Mobilization fo FOT**
Date: July 2, 2010 8:17:19 AM MDT
To: "Gibson, Dan" <dgibson@keyenergy.com>
Cc: "wayne price" <wayneprice77@earthlink.net>, "Kuehling, Monica, EMNRD" <monica.kuehling@state.nm.us>
▷ 1 Attachment, 0.8 KB

Dan:

I heard from Wayne Price that Key is planning to mobilize to conduct the annual Fall-Off Test (FOT). This is just a reminder for Key to submit its C-103 Sundry Notice outlining the work in advance for OCD approval.

Also, due to the length of the test, opportune times for OCD staff to witness the test would be during the emplacement of bottom hole gauges at least 48 hours in advance of start of FOT and at least one hour before system shut-off to witness a steady-state injection conduction before start of FOT and to remain for an unspecified period to evaluate formation pressure gauges.

Please contact me if you have questions. 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: <http://www.emnrd.state.nm.us/oecd/index.htm>
(Pollution Prevention Guidance is under "Publications")

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NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emnr.state.nm.us/ocd/District III/district.htm](http://emnr.state.nm.us/ocd/District%20III/district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8-7-10 Operator Key Energy Sv. API #30-0 45-28653
Property Name Sunco Disposal Well No. 1 Location: Unit Section 2 Township 29 Range 12
Well Status (Shut-In or Producing) Initial PSI: Tubing 1795 Intermediate N/A Casing 0 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
5 min					
10 min					
15 min					
20 min					
25 min					
30 min					

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		
Surges		
Down to Nothing		
Nothing	<input checked="" type="checkbox"/>	<u>DICT. 3</u>
Gas		
Gas & Water		<u>OIL CONS. DIV.</u>
Water		<u>RCVD JUL 8 '10</u>

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE N/A

REMARKS: Nothing when opened.

By Wayne Price
KEY-AGENT
(Position)

Witness Monica Kuehling

E-mail address WAYNE PRICE⁷⁷@EARTHLINK.NET



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT

(TA OR UIC)

Date of Test 7-8-10 Operator Key Energy Serv. API # 30-0 45-28653

Property Name Sunco Disposal Well # 1 Location: Unit Sec 2 Twn 29 Rge 12

Land Type: State Federal Private Indian

Well Type: Water Injection Salt Water Disposal Gas Injection Producing Oil/Gas Pressure observation

Temporarily Abandoned Well (Y/N): TA Expires:

Casing Pres. 0 Tbg. SI Pres. Max. Inj. Pres. Bradenhead Pres. 0 Tbg. Inj. Pres. Tubing Pres. 1795 Int. Casing Pres. N/A

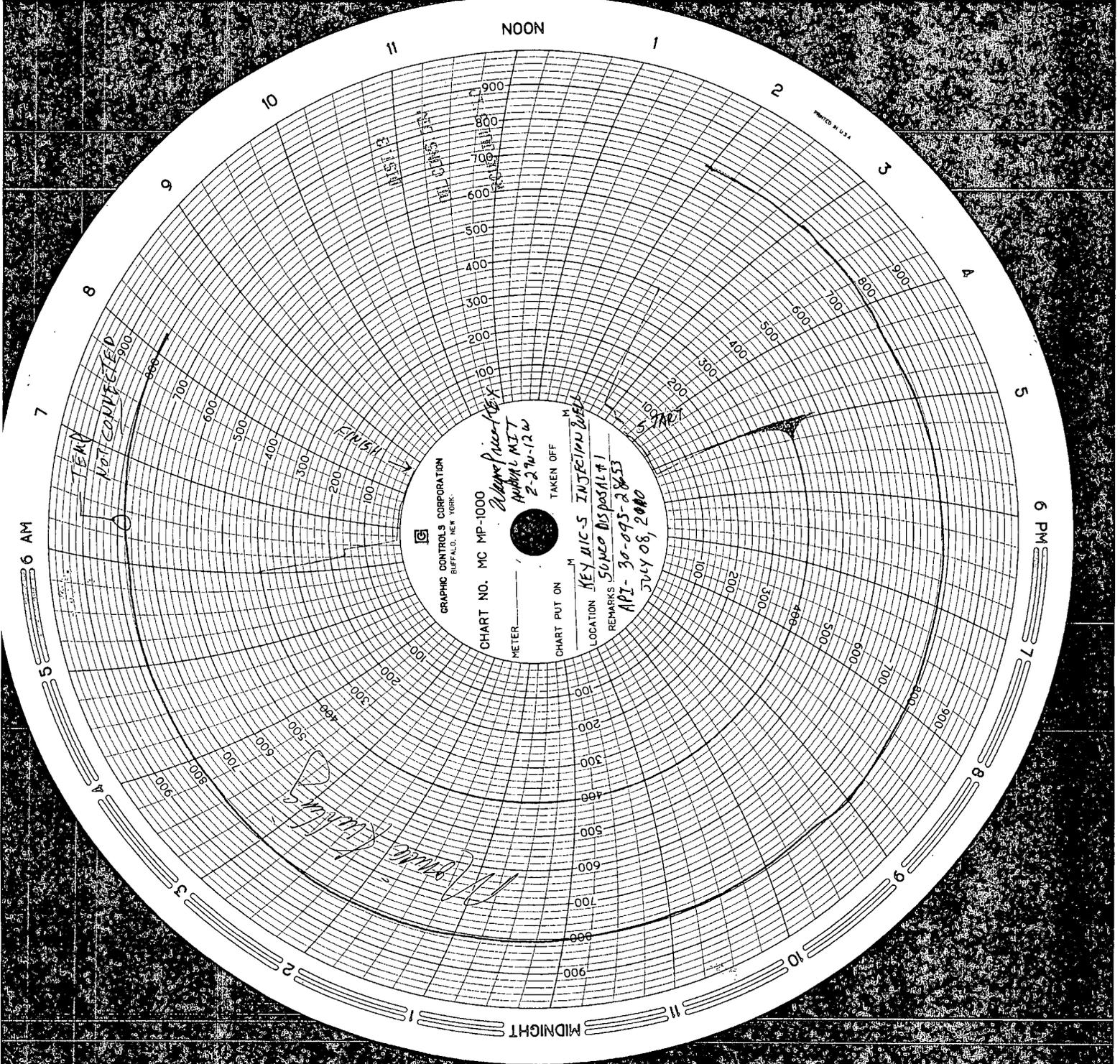
Pressured annulus up to 400 psi. for 30 mins. Test passed/failed DIST. 3

REMARKS: Packer set 4282 top of pack 4380 OIL CONS DIV RCVD JUL 8 '10

By Wayne Smith (Operator Representative) KEY-AGENT (Position)

Witness Monica Kuehling (NMOCD)

Revised 02-11-02



NOON

6 AM

6 PM

MIDNIGHT

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-1000

METER

CHART PUT ON

TAKEN OFF

LOCATION

REMARKS

Allegro Pico-Tex
Medical MIT
2-27-12 w

KEY MIC'S INJECTION 200

50 pps Disposal #1

API-30-095-2853

JULY 08, 2000

PRINTED IN U.S.A.

TEST
METERS

GENISH

TEMP
NOT CONNECTED

M. J. K...

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Monday, July 14, 2008 4:37 PM
To: Chavez, Carl J, EMNRD
Cc: Price, Wayne, EMNRD; Sanchez, Daniel J., EMNRD; Jones, William V., EMNRD; Williams, Chris, EMNRD; Gum, Tim, EMNRD; Perrin, Charlie, EMNRD
Subject: UIC Class I Well MIT Status 2007 vs. 2008

Note to file for 2007 and 2008.

OCD district staff successfully witnessed MITs in 2007 and 2008 at the Class I Wells listed below.

The status of Class I MITs for 2007 is as follows:

1) San Juan Refining (UICL-9): Annual MIT performed on 10/17/07 (Annual MIT 578-560 psi over 30 min.)

2) Key Energy (UICL-5) MIT performed on 10/15/07 (Annual MIT 520-500 psi over 30 min.)

3) Navajo WDW#1 (UICL-8) MIT performed on 3/7/07 (5-Yr. MIT 750-750 psi over 30 min.)

4) Navajo WDW#2 (UICL-8) MIT performed on 3/7/07 (5- Yr. MIT 750-740 psi over 30 min.)

5) Navajo WDW#3 (UICL-8) MIT performed on 3/7/07 (5-Yr. MIT 500-490 psi over 30 min.)

It appears that five of the five Class I Wells completed either an annual or 5-Yr. MIT w/ bradenhead

Two MITs were witnessed by District Staff in 2008. One was tested after the end of the OCD reporting period of 6/30/2008. Navajo Refining Company Artesia, while completing the Fall-Off Tests at WDWs #1-3, did not complete MITs for the OCD

7/15/2008

Reporting period ending 6/30/2008. Navajo has been contacted to arrange a date and time for the annual MITs, bradenheads, etc to be completed before the end of the EPA fiscal year reporting period ending September 30, 2008. In addition, an official Test Plan for the Fall-Off Testing was requested, since Navajo performed the Fall-Off Tests without an OCD approved Test Plan w/ schedule for OCD to witness the tests. Annual MITs should be performed in advance of running the Fall-Off Tests each year, since equipment is mobilized to satisfy the annual MIT and Fall-Off Test Schedule.

The status of Class I MITs for 2008 is as follows:

1) San Juan Refining (UICL-9): Annual MIT performed on 5/7/08 (Annual MIT 538-560 psi over 30 min. w/ Bradenhead- nothing noticed). San Juan County

2) Key Energy (UICL-5) MIT performed on 7/1/08 (Annual MIT 510-522 psi over 30 min.) San Juan County

3) Navajo WDW#1 (UICL-8) MIT performed on 4/1/08 (Fall-Off Test- no annual MIT during reporting period ending 6/30/08)) Eddy County

4) Navajo WDW#2 (UICL-8) MIT performed on 4/2/08 (Fall-Off Test- no annual MIT during reporting period ending 6/30/08) Eddy County

5) Navajo WDW#3 (UICL-8) MIT performed on 4/3/08 (Fall-Off Test- no annual MIT during reporting period ending 6/30/08)) Eddy County

6) Monument Disposal Well was converted back to a Class II SWD Well shortly after obtaining Class I Well Status. No longer a Class I Well. Lea County

Carl J. Chavez, CHMM

7/15/2008



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6170 FAX: (505) 334-6170
<http://nemnr.d.state.nm.us/ood/District/II/3/district.htm>

**MECHANICAL INTEGRITY TEST REPORT
(TA or UIC)**

Date of Test 5/22/2001 Operator Key Energy API # 30-0 4528653

Property Name Sunco Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:
State _____
Federal _____
Private X
Indian _____

Well Type:
Water Injection _____
Salt Water Disposal X
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): N

TA Expires: _____

Casing Pres. 0
Bradenhead Pres. TSTM
Tubing Pres. _____
Int. Casing Pres. _____

Tbg. SI Pres. 1650
Tbg. Inj. Pres. _____

Max. Inj. Pres. 2850

Pressured annulus up to 420 psi. for 30 mins. Test passed/failed

REMARKS: Puff of gas on BH



By [Signature]
(Operator Representative)

Witness [Signature]
(NMOCD)

(Position)



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS BOA.
AZTEC, NEW MEXICO 8741
(505) 334-417

MECHANICAL INTEGRITY TEST REPORT

(TA or UIC) API# 30-045-28653

Date of Test 6-16-2000 Operator Key Four Corners INC

Lease Name Sunco Disposal Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:	State <u> </u>	Well Type:	Water Injection <u> </u>
	Federal <u> </u>		Salt Water Disposal <u>X</u>
	Private <u>X</u>		Gas Injection <u> </u>
	Indian <u> </u>		Producing Oil/Gas <u> </u>
			Pressure Observation <u> </u>

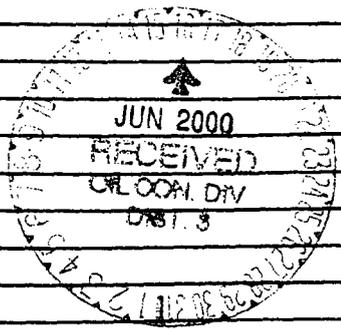
Temporarily Abandoned Well (Y/N): N TA Expires:

Casing Pres. <u>0</u>	Tbg. SI Pres. <u>1580</u>	Max. Inj. Pres. <u>2850</u>
Bradenhead Pres. <u>1575</u>	Tbg. Inj. Pres. <u> </u>	
Tubing Pres. <u> </u>		
Int. Casing Pres. <u> </u>		

Pressured annulus up to 420 psi. for 15 mins. Test passed failed.

REMARKS: Started test @ 1:15pm pressured casing to 420 psi
Pressure held steady for 15 min - No loss - Test passed. Test end
at 1:30pm

Puff of gas on BH valve.



By [Signature]
(Operator Representative)
Facility Manager
(Position)

Witness [Signature]
(NMOCD)

PRINTED BY
CALIBRATED CHARTS CORP.

STET

Instruments, Inc.

TYPE & SIZE

13.30

UNIT WEIGHT OFF

N

DATE OF

3/15

TIME FOR ON

3:15

DATE FOR ON

3/16

4 P.M.

5 P.M.

6 P.M.

7 P.M.

8 P.M.

9 P.M.

3 P.M.

700

600

500

400

300

200

100

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

9 A.M.

8 A.M.

7 A.M.

6 A.M.

5 A.M.

4 A.M.

3 A.M.

PRESSURE

900

800

700

600

500

400

300

200

100

700

600

500

400

300

200

100

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

600

500

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1600

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1800

1900

2000

<



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Wayne Price

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-8178 FAX: (505) 334-8170
<http://lemnrd.state.nm.us/ocd/District/III/3d/Integ.htm>

MECHANICAL INTEGRITY TEST REPORT (TA or UIC)

Date of Test 5-23-03 Operator Key Four Corners Inc. API # 30-045-28653

Property Name Sunco Disposal Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:
State _____
Federal _____
Private X
Indian _____

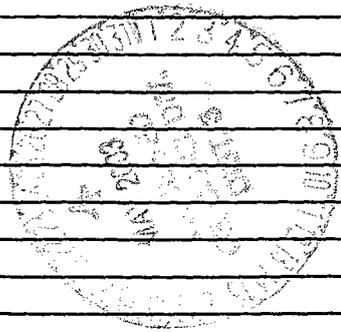
Well Type:
Water Injection _____
Salt Water Disposal X
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____ TA Expires: _____

Casing Pres. 0 Tbg. SI Pres. 1450 Max. Inj. Pres. _____
Bradenhead Pres. 0 Tbg. Inj. Pres. _____
Tubing Pres. _____
Int. Casing Pres. _____

Pressured annulus up to 340 psi. for 30 mins. Test passed ~~failed~~

REMARKS:



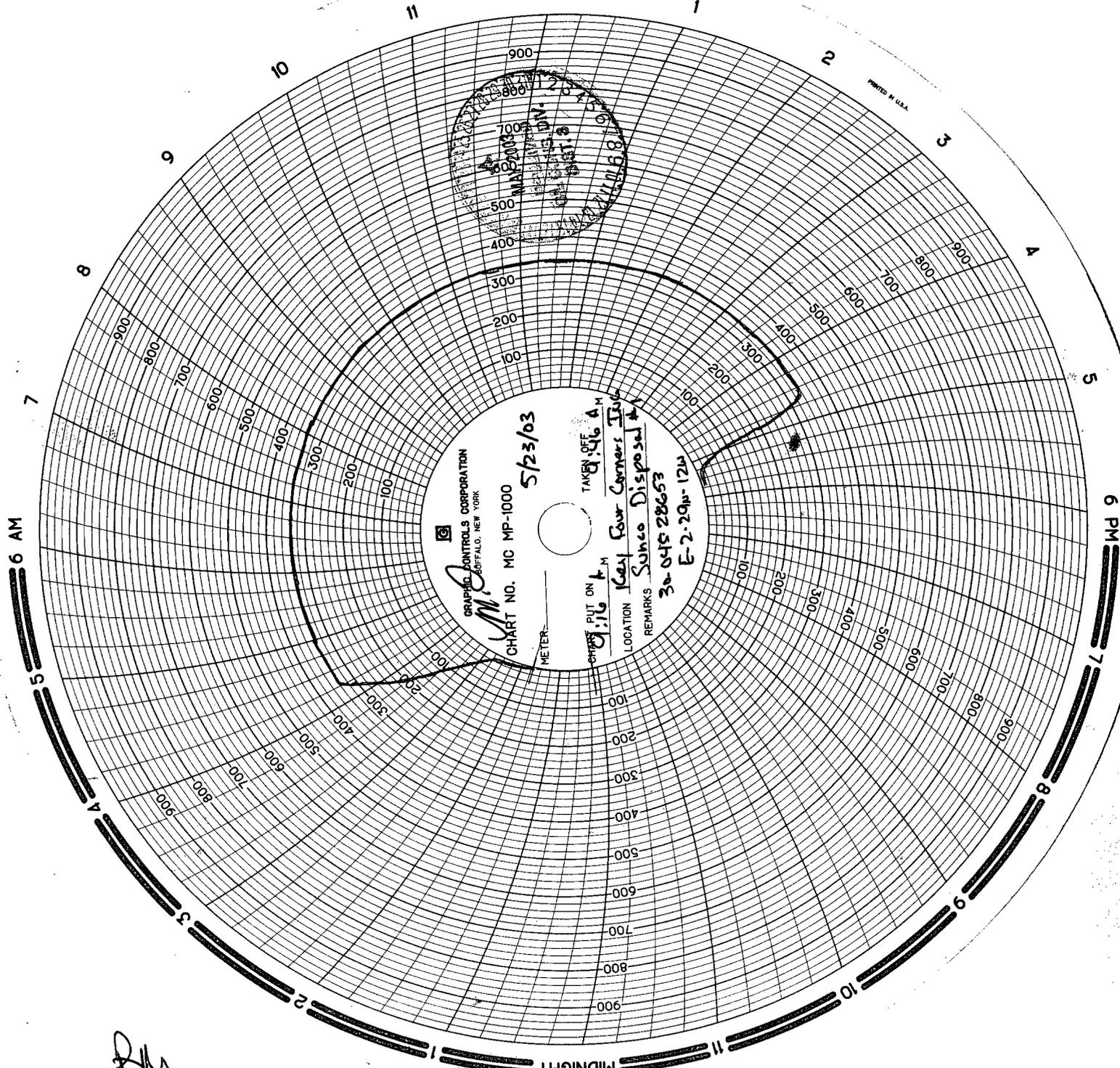
By Michael J. Smith
(Operator Representative)

Witness Renee Marti
(NMOCD)

(Position)

NOON

PRINTED IN U.S.A.



GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

M.P.
CHART NO. MC MP-1000

5/23/03

METER

CHART PUT ON

5:16 P.M.

TAKEN OFF

8:46 A.M.

LOCATION

Key Four Corners, Ind.

REMARKS

Sunco Disposal

30-045 28653

E-2-29-12-11

DM
Red line drawn by Bruce Martin on 5/29/03





STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS BOA.
AZTEC, NEW MEXICO 8741
(505) 334-417

MECHANICAL INTEGRITY TEST REPORT

(TA or UIC) API# 30-045-28653

Date of Test 6-16-2000 Operator Key Four Corners Inc

Lease Name Sunco Disposal Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:	State <u> </u>	Well Type:	Water Injection <u> </u>
	Federal <u> </u>		Salt Water Disposal <u>X</u>
	Private <u>X</u>		Gas Injection <u> </u>
	Indian <u> </u>		Producing Oil/Gas <u> </u>
			Pressure Observation <u> </u>

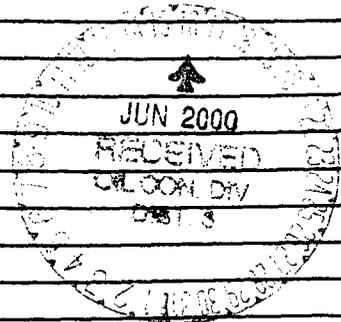
Temporarily Abandoned Well (Y/N): N TA Expires:

Casing Pres. <u>0</u>	Tbg. SI Pres. <u>1580</u>	Max. Inj. Pres. <u>2850</u>
Bradenhead Pres. <u>1570</u>	Tbg. Inj. Pres. <u> </u>	
Tubing Pres. <u> </u>		
Int. Casing Pres. <u> </u>		

Pressured annulus up to 420 psi. for 15 mins. Test passed failed.

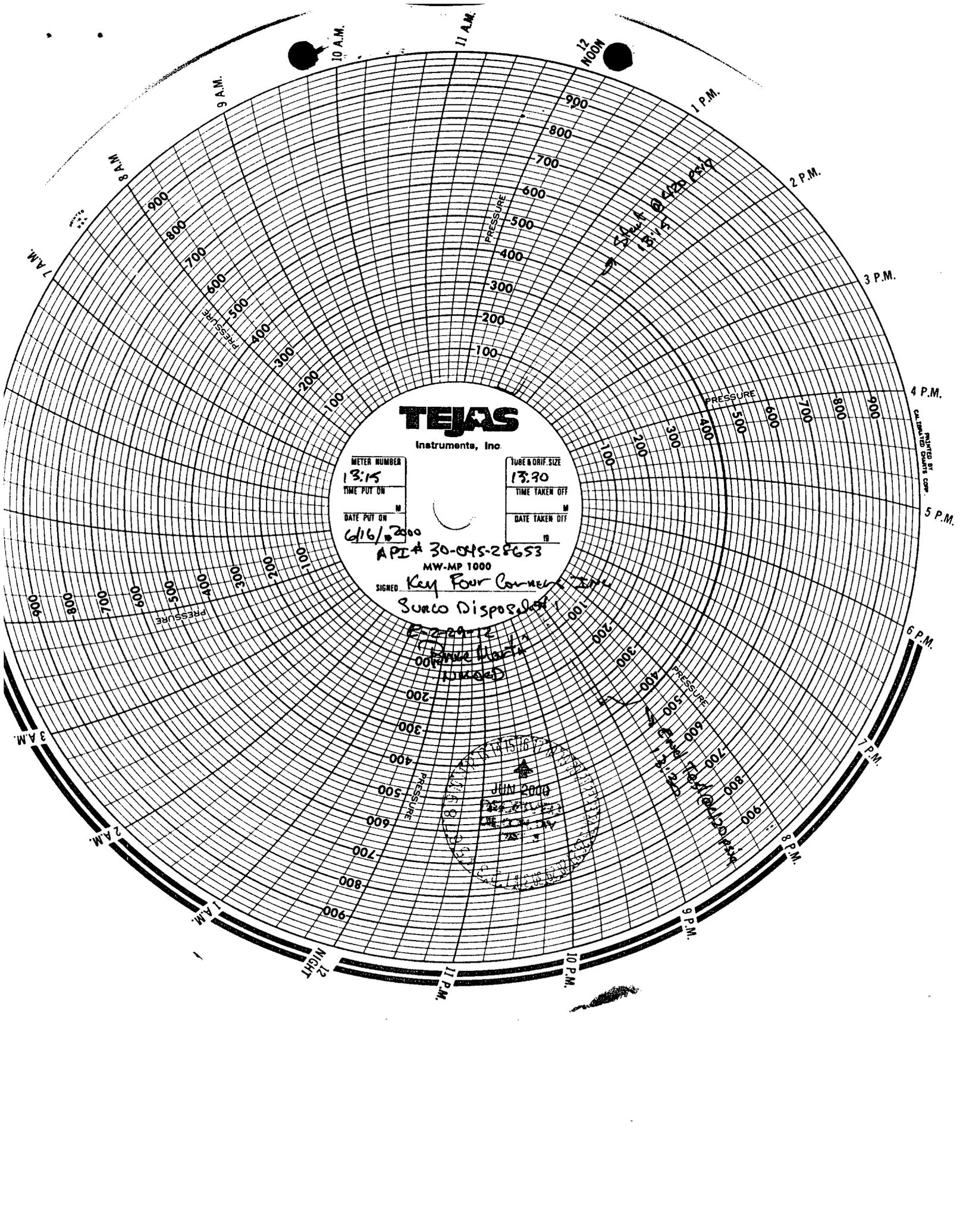
REMARKS: Started test @ 1:15pm pressured casing to 420 psi
Pressure held steady for 15 min - No loss - Test passed. Test end
at 1:30pm

Puff of gas on BH valve.



By [Signature]
(Operator Representative)
[Signature]
(Position)

Witness [Signature]
(NMOCD)



TEJAS

Instruments, Inc

METER NUMBER
13:15
TIME PUT ON
DATE PUT ON
6/16/2000

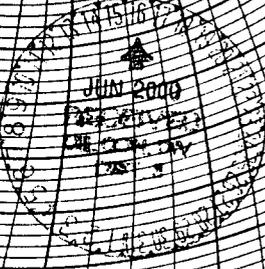
TUBE & DRIF. SIZE
13:30
TIME TAKEN OFF
DATE TAKEN OFF

API # 30-045-28653
MW-MP 1000

SIGNED Key Four Concrete

Surco Disposal

7-22-2000
Dave Harbo
100000



4 P.M.
5 P.M.
6 P.M.

7 P.M.

8 P.M.

9 P.M.

10 P.M.

11 P.M.

12 NIGHT

1 P.M.

2 P.M.

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12 NOON

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12 NIGHT

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12 NIGHT

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9 P.M.

10 P.M.

11 P.M.

12 NIGHT



Wayne Price

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6170 FAX: (505) 334-6170
[http://nemnr.d.state.nm.us/ocd/District 153/district.htm](http://nemnr.d.state.nm.us/ocd/District%20153/district.htm)

MECHANICAL INTEGRITY TEST REPORT (TA or UIC)

Date of Test 5/19/99 Operator Key Energy API # 30-0 45-28653

Property Name SUNCO SWD Well Well # 1 Location: Unit E Sec 2 Twn 29 Rge 12

Land Type:

State _____
Federal _____
Private X
Indian _____

RECEIVED
MAY 19 1999

Well Type:

Water Injection _____
Salt Water Disposal X
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____

TA Expires: _____

Casing Pres. 0
Bradenhead Pres. 0
Tubing Pres. _____
Int. Casing Pres. _____

Tbg. SI Pres. 1700
Tbg. Inj. Pres. 2040

Max. Inj. Pres. 2850

Pressured annulus up to 580 psi. for 30 mins. Test passed failed

REMARKS:

By Michael Talan
(Operator Representative)

Witness Bruce Martin
(NMOCD)

(Position)



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

Mark Ashley



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZ
AZTEC, NEW MEX
88

MECHANICAL INTEGRITY TEST REPORT
(TA or UIC)

Date of Test 6-30-99 Operator Coleman O&G Inc
Lease Name SUPCO (S.W.D) CLASS 1 Well # 1 Location: Unit E Sec 2 Twn 29N Rge 12W

Land Type: State
Federal
Private X
Indian

Well Type: Water Injection
Salt Water Disposal X
Gas Injection
Producing Oil/Gas
Pressure Observation

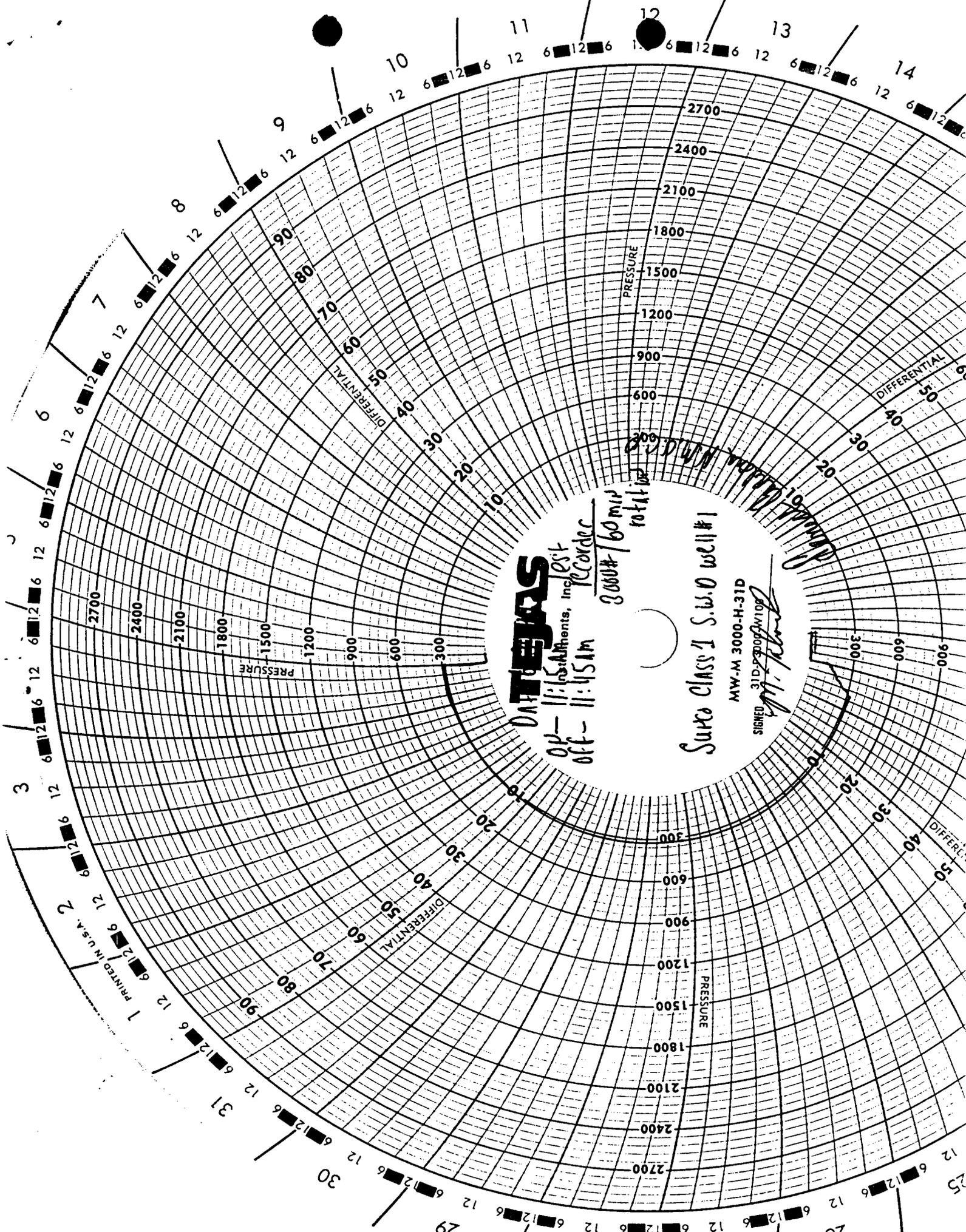
Temporarily Abandoned Well (Y/N): No TA Expires: N.A

Casing Pres. Tbg. SI Pres. Max. Inj. Pres. 2850
Bradenhead Pres. Tbg. Inj. Pres.
Tubing Pres. 1700#
Int. Casing Pres.

Pressured annulus up to 310 psi. for 30 mins. Test passed/failed.

REMARKS:
Started test @ 11:15 am w/ 100# csg 1 tbg annulus. Pressured up the csg annulus to 310# pressure @ end of 30 min test - 11:45 am 300#; pressure maintained on gauge also; Along w/ being reported on chart. Well passed test

By [Signature] (Operator Representative)
Witness [Signature] (NMOCD)
(Position)



DATARECORDERS

OP - 11:55 AM, inc test
 off - 11:45 AM

3000# / 60 min
 total up

Handwritten note: 3000# / 60 min total up

Super Class 1 S.W.D well #1

MW-M 3000-H-31D

SIGNED: 31D-3000/H-31D

Signature

1 PRINTED IN U.S.A. 2