

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT IN DUPLICATE
(See other in-
structions on
reverse side)

FORM APPROVED
OMB NO. 1004-0137

Expires: February 28, 1995

2003 JUL -3 AM 9:30

LEASE DESIGNATION AND SERIAL NO.

NM 20314

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

070 Farmington, NM

1a. TYPE OF WORK

OIL ☐ GAS ☐ DRY ☐
WELL ☐ WELL ☐

1b. TYPE OF WELL

NEW ☐ WORK ☐ DEEP- ☐ PLUG ☐ DIFF. ☐
WELL ☒ OVER ☐ EN ☐ BACK ☐ RESVR. ☐

2. NAME OF OPERATOR

Calpine Natural Gas Limited Partnership

3. ADDRESS AND TELEPHONE NO.

1200 17th St. Suite 770, Denver Colorado 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface

1830' FSL & 780' FEL

Sec. 22-30N-14W

At top prod. Interval reported below

Same

At total depth

Same

14. PERMIT NO.

DATE ISSUED

3/19/2003

12. COUNTY OR PARISH

San Juan

13. STATE

NM

15. DATE SPUDDED

03/27/03

16. DATE T.D. REACHED

03/29/03

17. DATE COMPL. (Ready to prod.)

06/18/03

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4015 MD

4015 TVD

21. PLUG, BACK T.D., MD & TVD

ID

3965 MD

3965 TVD

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

Point Lookout

3735-3830

25. WAS DIRECTIONAL
SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

No Logs run. Used open hole logs from Roosevelt #1 for perforations which is on the same well pad.

27. WAS WELL CORED

NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8" J-55 ST&C	32#	227	12 1/4"	Surface	
5 1/2" J-55 LT&C	15.5#	4010	7 7/8"	Surface	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	3701	3701

31. PERFORMANCE RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER
3810-3830	0.37	80
3790-3800	0.37	40
3762-3772	0.37	40
3735-3745	0.37	40

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3810-3830	Acidized with 1000 gals. 15% HCL
3790-3800	
3762-3772	
3735-3745	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE
	PROD.N. FOR TEST PERIOD	OIL--BBL.
		GAS--MCF.
		WATER--BBL.
		GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE
		OIL--BBL.
		GAS--MCF.
		WATER--BBL.
		OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

ACCEPTED FOR RECORD
Paul Thompson

35. LIST OF ATTACHMENTS

Water Analysis, Mechanical Integrity Report

JUL 07 2003

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

[Signature]

TITLE Production Manager

FARMINGTON FIELD OFFICE 7/2/2003

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

7d
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6176 FAX: (505) 334-6170
[http://nemnr.state.nm.us/ocd/District II/District.htm](http://nemnr.state.nm.us/ocd/District%20II/District%20II.htm)

MECHANICAL INTEGRITY TEST REPORT
(TA or UIC)

Date of Test 6-18-03 Operator Calpine Natural Gas, L.P. API # 30-045-31448

Property Name Roosevelt SWD Well # 1 Location: Unit I Sec 22 Twn 30 Rge 14

Land Type:

State _____
Federal X _____
Private _____
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. _____
Bradenhead Pres. _____
Tubing Pres. _____
Int. Casing Pres. _____

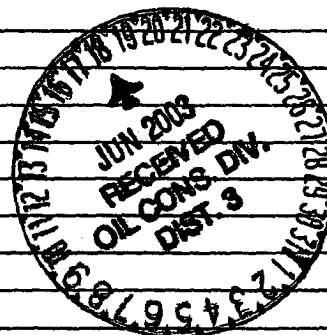
Tbg. SI Pres. _____
Tbg. Inj. Pres. _____

Max. Inj. Pres. _____

Pressured annulus up to 360 psi. for 30 mins. Test passed/failed

REMARKS:

No pressure drop.

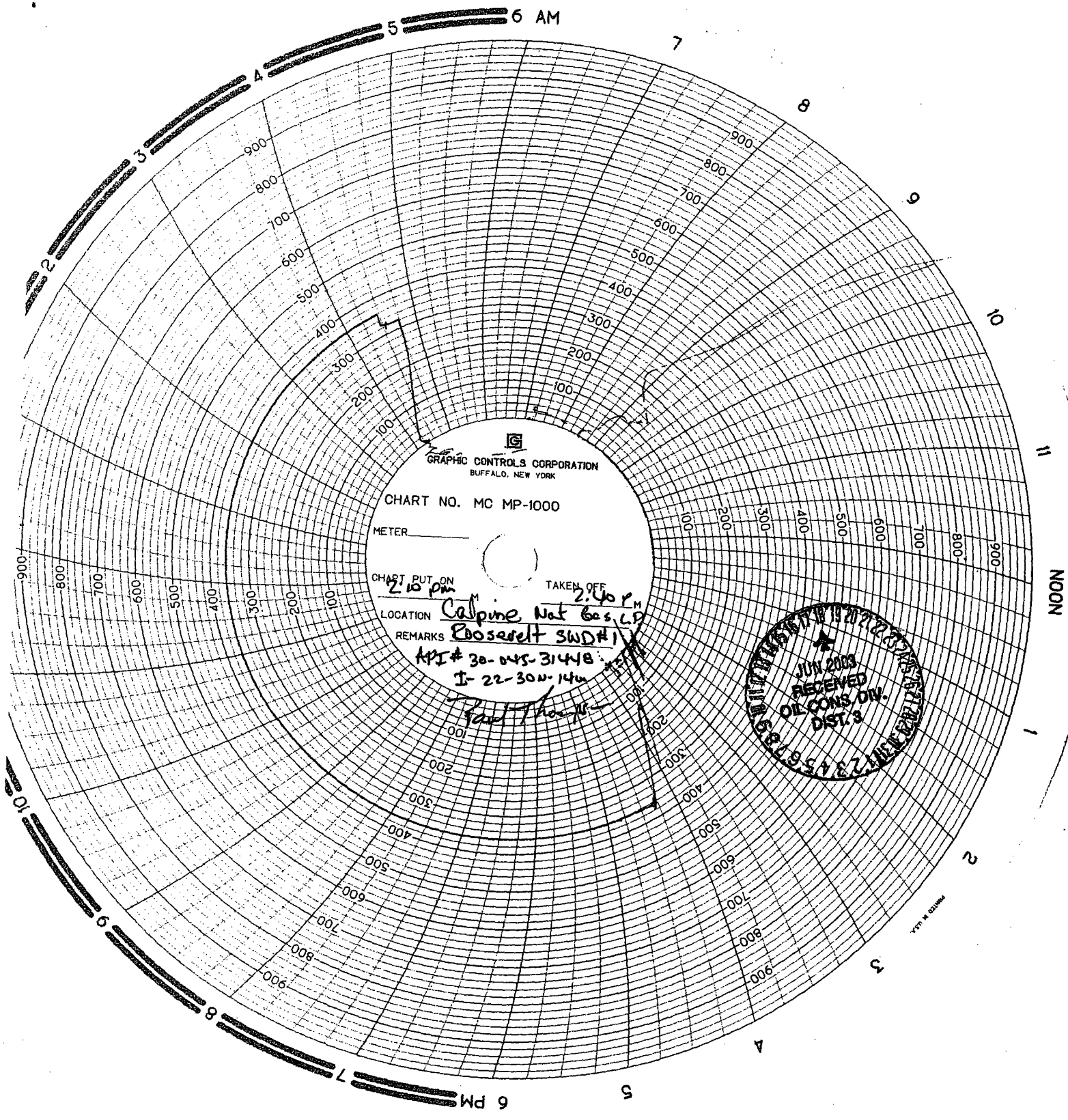


By Paul Thompson
(Operator Representative)

Witness Rene Martin
(NMOCD)

(Position)

REVISED 11-17-98



GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-1000

METER _____

CHART PUT ON
2:10 PM

TAKEN OFF
2:40 P.M.

LOCATION

Calpine Nat Gas, L.P.

REMARKS

Booster SWD #1

API # 30-045-31448

I-22-30W-14W

Paul Thompson



Calpine

County: San Juan
State: NMSampled at:
Date: 06/25/03

Field:

Location: Roosevelt SWD

Formation:

Depth: 0

H & M Precision

Water Analysis Report

Sum +	mg/L	meq/L	Sum -	mg/L	meq/L
Potassium	0.0	0.00	Sulfate	56.0	1.17
Sodium	5,783.1	250.88	Chloride	7,500.0	211.55
Calcium	115.2	5.75	Carbonate	0.0	0.00
Magnesium	59.9	4.63	Bicarbonate	3,180.0	51.79
Iron	22.8	1.22	Hydroxide	0.0	0.00
Barium	0.0	0.00	-	0.0	0.00
Strontium	0.0	0.00	-	0.0	0.00
CATIONS	5,961.0	262.58	ANIONS	10,716.0	264.51

Analysis
Balanced

Total Dissolved Solids @180C

16,677 mg/L

Sample Temperature, °F

70 F

Sample pH, standard units

7.43 Units

Dissolved Oxygen

0.0 ppm

Carbon Dioxide

0.0 mg/L

Total Sulfide, (TS)

0.0 mg/L

Sulfide Ion, (S)

0 mg/L

Dissolved Hydrogen Sulfide, (TS-S)

0 mg/L

Specific Gravity

1.0114

Resistivity, measured

0 ohm/m³

Ionic strength

0.270

Sulfate Reducing Bacteria

nd

Aerobic Bacteria

nd

CaCO₃

Temp F	Stiff Davis Index	A Index
32	0.25	43
50	0.41	60
68	0.59	74
77	0.69	79
86	0.79	84
104	1.02	91
122	1.26	96
140	1.53	98
158	1.82	99
176	2.13	100

CaSO₄

Temp F	Actual	Calculated	S Index	A Index
50	1.17	47.98	-46.79	-1115
68	1.17	48.34	-47.17	-1124
86	1.17	48.72	-47.55	-1133
104	1.17	48.98	-47.81	-1140
122	1.17	49.13	-47.96	-1143
140	1.17	49.22	-47.05	-1122
158	1.17	47.30	-46.13	-1100
176	1.17	46.36	-45.19	-1077

BASO₄ SCALE POSSIBLE

NO

NOTE: Stiff Davis Index

- Indicates undersaturation. Scale formation negative.
- 0 indicates the water is at saturation point. Scale unlikely.
- + Indicates supersaturation. A positive scaling condition exists.

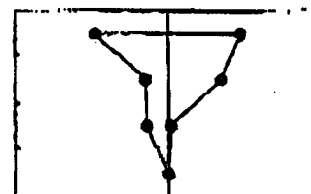
NOTE: Skellman Method Calcium Sulfate 'S' Index

- Indicates undersaturation. Scale formation negative.
- 0 indicates the water is at saturation point. Scale unlikely.
- + Indicates supersaturation. A positive scaling condition exists.

NOTE: A Index: worst possible case. Assumes 100% precipitation.

- Units = pounds of scale produced / 1000 bbls. of water.
- A Index = - A Scale formation negative.
- A Index > 0 Scale formation positive.

Water Analysis Pattern

Approved: Alben Rich
08/30/2003

v4.01