



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://emr.d.state.nm.us/ocd/District 103/district.htm](http://emr.d.state.nm.us/ocd/District%203/district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9-8-12 Operator Foursman 2012 and gas API # 30-045-06714

Property Name Charley-Patt- Well No 2 Location: Unit Section 12 Township 27 Range 9

Well Status (Shut-In or Producing) Initial PSI: Tubing 88.1 Intermediate 17.1 Casing 313 Bradenhead 23.1

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE					FLOW CHARACTERISTICS	
	Bradenhead			INTERM		BRADENHEAD	INTERMEDIATE
	BH	Int	Csg	Int	Csg		
TIME							
5 min	Trickle	Wk	54.6			Steady Flow <u>X</u>	
10 min	Trickle		55.1			Surges <u> </u>	
15 min	Drips		56.7			Down to Nothing <u> </u>	
20 min	Drip		56.8			Nothing <u> </u>	
25 min	Drip		56.8			Gas <u> </u>	
30 min						Gas & Water <u> </u>	
						Water <u>X Trickle</u>	

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

CLEAR X FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 0.6

INTERMEDIATE X

REMARKS:

Upon opening, blew down to 0 in 3 sec, flowed water at a Trickle Trickle for 12 min then just dripping. Recover approx 1 1/2 gal in 30 min water sample pulled from BH and production

By Randy Calder

Witness

Caldar source
(Position)

E-mail address Randy.c@caldersource.com



BAKER HUGHES

Farmington District Lab

Water Analysis Report

Test # 2099

Customer/Well Information

Company: Chevron
Well Name: Various
Location:
State: County, New Mexico
Formation:
Depth:
Date: 9/17/2012
Prepared for:
Submitted by: Allen Eaker
Prepared by: Daniel Capehart
Water Type: Produced
Tank #: CharlesPah2 Bradenhead

Background Information

Reason for Testing:
Completion type:
Well History:
Comments:

Sample Characteristics

Sample Temp: 78 (°F)
pH: 6.00
Specific Gravity: 1.001
S.G. (Corrected): 1.005 @ 60 °F
Resistivity (Calc): 1.53 Ω-m
Viscosity: 1 cp
Color: Clear
Odor: None
Turbidity: Clear
Filtrates: None

Sample Composition

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	891	38.7	890
Calcium	76	3.8	76
Magnesium	2	0.2	2
Barium	0	0.0	0
Potassium	100	2.6	100
Iron	0.00	0.0	0.00

ANIONS

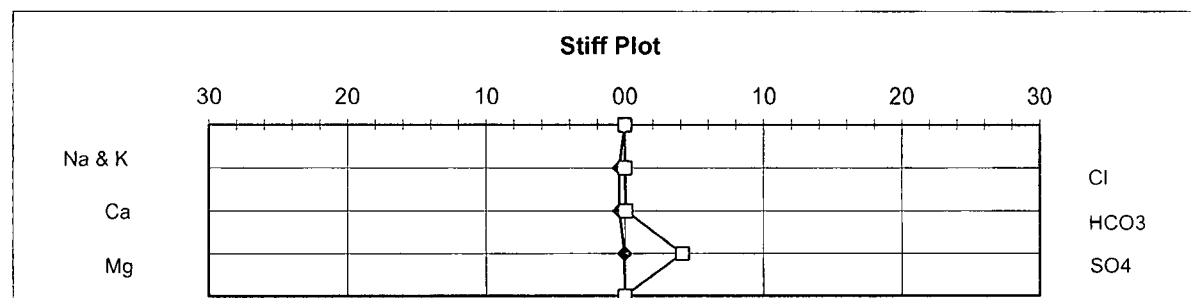
Chloride	100	2.8	100
Sulfate	2000	41.6	1998
Hydroxide	0	0.0	0
Carbonate	< 1	----	----
Bicarbonate	61	1.0	61

SUMMARY

Total Dissolved Solids(calc.)	3130		3127
Total Hardness as CaCO3	200	4.0	200

Scaling/Tendencies

CaCO3 Factor 4647.59 **Calcium Carbonate Scale Probability --> REMOTE**
CaSO4 Factor 152380 **Calcium Sulfate Scale Probability -----> REMOTE**





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 State: County, New Mexico
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 Depth:
 Date: 9/17/2012
 Prepared for:
 Submitted by: Allen Eaker
 Prepared by: Daniel Capehart
 Water Type: Produced
 Tank #: CharlesPah2 Produced

Background Information

Reason for Testing:
 Completion type:
 Well History:
 Comments:

Sample Characteristics

Sample Temp: 78 (°F)
 pH: 6.00
 Specific Gravity: 1.006
 S.G. (Corrected): 1.010 @ 60 °F
 Resistivity (Calc): 0.55 Ω-m
 Viscosity: 1 cp
 Color: Clear
 Odor: None
 Turbidity: Clear
 Filtrates: None

Sample Composition

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	2841	123.6	2824
Calcium	401	20.0	399
Magnesium	< .5	----	----
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

ANIONS

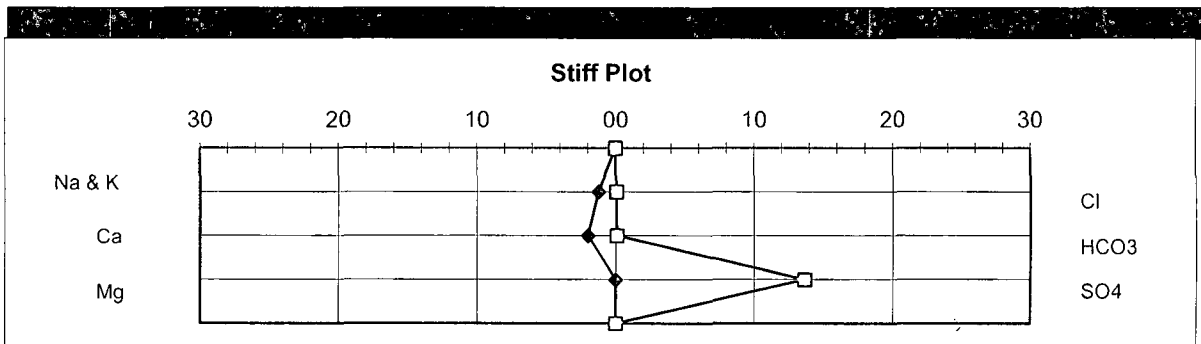
Chloride	200	5.6	199
Sulfate	6600	137.4	6561
Hydroxide	0	0.0	0
Carbonate	< 1	----	----
Bicarbonate	61	1.0	61

SUMMARY

Total Dissolved Solids(calc.)	10103		10042
Total Hardness as CaCO3	1001	20.0	995

Scaling Tendencies

CaCO3 Factor 24461 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 2646600 Calcium Sulfate Scale Probability -----> REMOTE





Geologic Tops:	
Ojo Alamo	
Kirtland	1151
Fruitland FM	1772
Pictured Cliffs	2005
Lewis	2071

Surface Casing:
10-3/4", 40.5#, J-55, Set @ 172' in 15" Hole
TOC = 0' (circulated) w/ 175 sks

Production Casing:
7", 20#, J-55, Set @ 2008' in 8-3/4" Hole
TOC = 0' (circulated) w/ 200 sks

OH section from 2008' - 2061'
Hole Size = 6-1/4"

Completion Details

Frac w/ 40000# 10/20 sd & 42,961 gals water

2/18/1983

Acidized w/ 200 gallons 7.5% HCl w/ 2 gal/1000 gals Cla Sta,
2 gal/1000 gal inhibitor & 600 scf/bbl N2

PBTD = 2061'

TD = 2090'

Prepared by: Jarrod Sparks
Date: 6/7/2010

Revised by:
Date: