

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(605) 334-6178 FAX: (605) 334-6170
[http://emrnr.d.state.nm.us/ocd/District 13/district.htm](http://emrnr.d.state.nm.us/ocd/District%2013/district.htm)

(submit 1 copy to above address)

Date of Test 8-31-12 Operator Foursquare Oil Co. API # 30-045-06445
Property Name W.H. Charles Well No 7 Location: Unit _____ Section 13 Township 27 Range 9
Well Status (Shut-In or Producing) Initial PSI: Tubing 111.8 Intermediate 114 Casing 112 Bradenhead 30.8

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE					
	Bradenhead			INTERM		
	BH	Int	Csg	Int	Csg	
TIME						
5 min	4.7		112			
10 min	6.0		94.7			
15 min	4.8		94.9			
20 min	3.2		95.2			
25 min	1.7		95.3			
30 min	1.0		97			

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow <u>X</u>	
Surges _____	
Down to Nothing _____	
Nothing _____	
Gas _____	
Gas & Water <u>X</u> ^{gassy} _{smell}	
Water <u>X</u>	

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

CLEAR *To Start* FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 27.3 INTERMEDIATE n/a

REMARKS:

REMARKS: Belong for 1 min then water AT Sgal in 25 sec for 2 min then Sgal in 10 sec for 3 min, then no water for 2 min then water at Sgal in 35 sec ^{AT} 15 min, flow Sgal in 45 sec water supply pulled for bleed and protection / AT 50 min Sgal in 38 sec

By Randy Calcutt
Calder service
(Position)

Witness _____

350 gallon
APR 1977 Total

E-mail address Randy.c@calderservices.com

184

5000
5000
5000

[illegible]



BAKER HUGHES

Farmington District Lab

Water Analysis Report

Test # 2099

Customer/Well Information

Company: Chevron Date: 9/14/2012
 Well Name: Prepared for:
 Location: Submitted by: Allen Eaker
 State: County, New Mexico Prepared by: Dave Rasmussen
 Formation: Water Type:
 Depth: Tank #: JohnCharles7 BradenHead

Background Information

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

Sample Characteristics

Sample Temp: 77 (°F) Viscosity: 1 cp
 pH: 9.3.9 Color: Clear
 Specific Gravity: 1.002 Odor: None
 S.G. (Corrected): 1.005 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 0.91 Ω-m Filtrates: None

Sample Composition

CATIONS	mg/l	me/l	ppm
Sodium (calc.)	1784	77.6	1780
Calcium	104	5.2	104
Magnesium	10	0.8	10
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

ANIONS

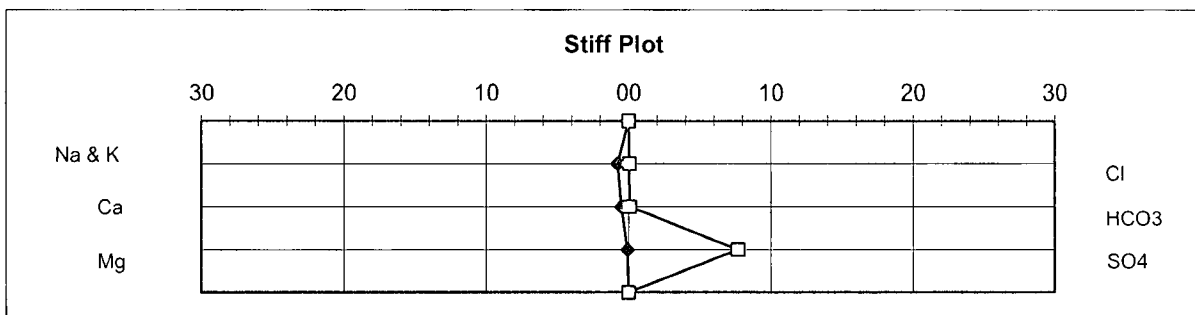
Chloride	200	5.6	200
Sulfate	3700	77.0	3693
Hydroxide	0	0.0	0
Carbonate	13	0.4	13
Bicarbonate	49	0.8	49

SUMMARY

Total Dissolved Solids(calc.)	5847		5835
Total Hardness as CaCO3	300	6.0	300

Scaling Tendencies

CaCO3 Factor 5087.888 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 385762 Calcium Sulfate Scale Probability -----> REMOTE





BAKER HUGHES

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Company: Chevron Date: 9/14/2012
 Well Name: Prepared for:
 Location: Submitted by: Allen Eaker
 State: County, New Mexico Prepared by: Dave Rasmussen
 Formation: Water Type:
 Depth: Tank #: JohnCharles7 Production

Background Information

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

Sample Characteristics

Sample Temp: 78 (°F) Viscosity: 1 cp
 pH: 7.81 Color: Clear
 Specific Gravity: 1.000 Odor: None
 S.G. (Corrected): 1.004 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 3.02 Ω-m Filtrates: None

Sample Composition

CATIONS	mg/l	me/l	ppm
Sodium (calc.)	502	21.8	502
Calcium	24	1.2	24
Magnesium	19	1.6	19
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

ANIONS

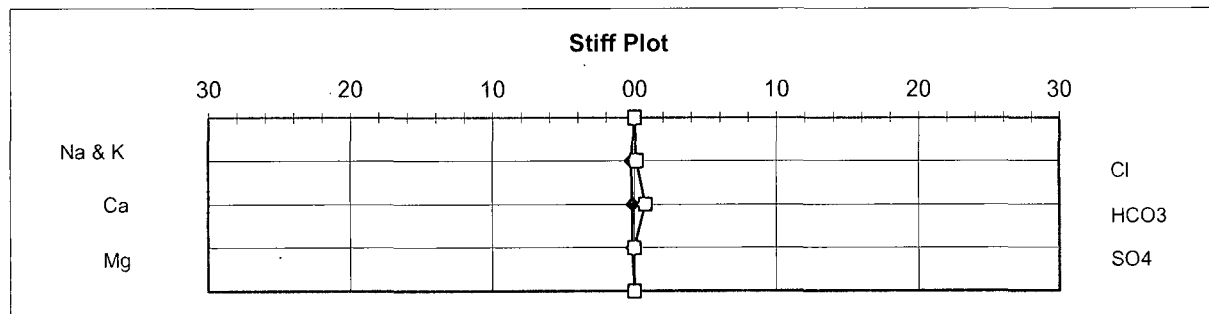
Chloride	600	16.9	600
Sulfate	0	0.0	0
Hydroxide	0	0.0	0
Carbonate	< 1	----	----
Bicarbonate	476	7.8	476

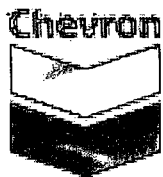
SUMMARY

Total Dissolved Solids(calc.)	1621		1621
Total Hardness as CaCO3	140	2.8	140

Scaling Tendencies

CaCO3 Factor 11447.75 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 0 Calcium Sulfate Scale Probability -----> REMOTE





John Charles 7
San Juan County, New Mexico
Current Well Schematic as of 12-18-2007

API: 30-045-0644500
Legals: Sec 13 - T 27N - R 9W
Field: Blanco MV

KB
KB Elev
GR Elev

Spud Date: 5/6/60
Compl Date:

Formation Tops:
MV 3583
Point Lookout 4238
Mid. Gallup 5528
Lower Gallup 5740
I Dakota 6373
II Dakota 6411
III Dakota 6500
IV Dakota 6627

Surface Casing:
10-3/4" 32.75# H-40 Csg Set @ 335 in 15" hole
Cmt'd with 375 sks
TOC = 0' (Circ cmt)

Tubing Details:
2-3/8" tbg, 4.7# @ 6344'

2-3/8" tbg, 4.7# @ 4356'

Pt. Lookout (MV) Perforations: 4 SPF

Perforations	Net Feet	Holes
4290-4334	44	176
4340-4354	14	56
4360-4372	12	48
4375-4385	10	40

Intermediate Casing:
7" 23# N-80 & J-55
Set @ 6677'
1st stage w/550 sks TOC @ 2900' (temp. survey)
2nd stage w/100 sks

Packer @ 6344' (1960)
Module 'D'

Dakota Perforations: 4 SPF

Perforations	Net Feet	Holes	
6374-90	16	64	Dakota I
6450-56	6	24	Dakota II
6464-80	16	64	Dakota II

6/09/60 Dakota II (6450-80') 20,000# 40-60 Sand & 27,105 gals Crude Oil
BDP 4000-2800#, avg IR 8.2 bpm

6/11/60 Dakota I (6374-90') 20,000# 40-60 Sand & 26,100 gals Crude Oil
BDP 3700#, avg IR 8 bpm

7-01-60 Test (3hrs) Dakota (6374-6480')
950 mcfd, CAOF 985 mcfd

Prepared by: Jean Kohoutek
Date: 1/3/2008

Revised by:
Date:

