



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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AZTEC NM 87410
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[http://emrnr.d.state.nm.us/ocd/District III/district.htm](http://emrnr.d.state.nm.us/ocd/District%20III/district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8-31-12 Operator FOUR STAR OIL SERVICES API #30-045-22660

Property Name John Charles Well No 6A Location: Unit F Section 13 Township 27 Range 9W

Well Status (Shut-In or Producing) Initial PSI: Tubing 98.3 Intermediate X Casing 18.4 Bradenhead 30.1

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	<u>0.8</u>	<u>1</u>	<u>186.4</u>	<u>X</u>	<u>X</u>
10 min	<u>0.8</u>	<u>1</u>	<u>186.0</u>	<u>X</u>	<u>X</u>
15 min	<u>0.8</u>	<u>1</u>	<u>185.5</u>	<u>X</u>	<u>X</u>
20 min	<u>0.8</u>	<u>1</u>	<u>184.5</u>	<u>X</u>	<u>X</u>
25 min	<u>0.7</u>	<u>1</u>	<u>185.6</u>	<u>X</u>	<u>X</u>
30 min	<u>0.7</u>	<u>1</u>	<u>188.1</u>	<u>X</u>	<u>X</u>

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow <u>X water</u>	
Surges	
Down to Nothing	
Nothing	
Gas	
Gas & Water	
Water <u>X</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 28.7 INTERMEDIATE N/A

REMARKS:

Sg in 35 sec, AT 15 min flowing Sg in 35 sec AT 30 min
flow Sg in 38 sec 200 gallon APPAR in 30 min
Water sample pulled off B-head and production

By Randy calder
calder service
(Position)

Witness _____

E-mail address Randy.c@calderservices.com

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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 #: JohnCharles6A BradenHead

Background Information

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

Sample Characteristics

Sample Temp: 72 (°F) Viscosity: 1 cp
 pH: 10.19 Color: Clear
 Specific Gravity: 1.000 Odor: None
 S.G. (Corrected): 1.002 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 8.58 Ω-m Filtrates: None

Sample Composition

CATIONS	mg/l	me/l	ppm
Sodium (calc.)	72	3.1	72
Calcium	12	0.6	12
Magnesium	7	0.6	7
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

ANIONS

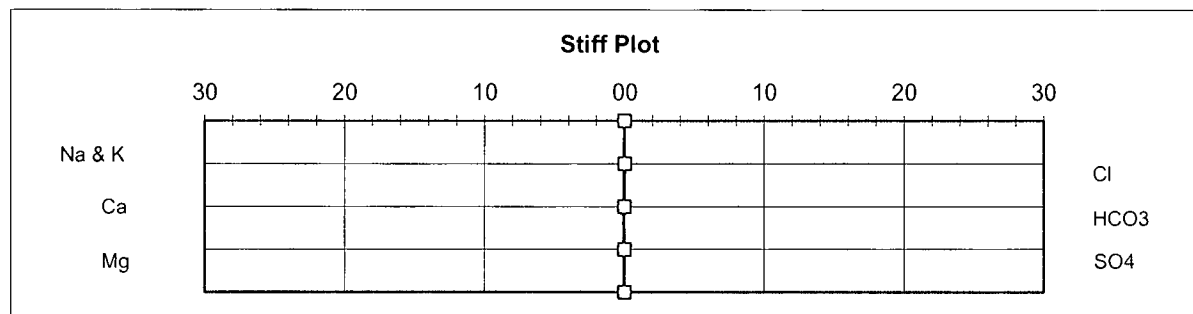
Chloride	100	2.8	100
Sulfate	0	0.0	0
Hydroxide	0	0.0	0
Carbonate	46	1.5	46
Bicarbonate	< 1	----	----

SUMMARY

Total Dissolved Solids(calc.)	192		192
Total Hardness as CaCO3	60	1.2	60

Scaling Tendencies

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





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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 #: JohnCharles6A Production

Background Information

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

Sample Characteristics

Sample Temp: 72 (°F) Viscosity: 1 cp
 pH: 7.63 Color: Clear
 Specific Gravity: 1.014 Odor: None
 S.G. (Corrected): 1.016 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 0.46 Ω-m Filtrates: None

Sample Composition

CATIONS	mg/l	me/l	ppm
Sodium (calc.)	4866	211.7	4799
Calcium	120	6.0	119
Magnesium	194	16.0	192
Barium	0	0.0	0
Potassium	50	1.3	49
Iron	0.00	0.0	0.00

ANIONS

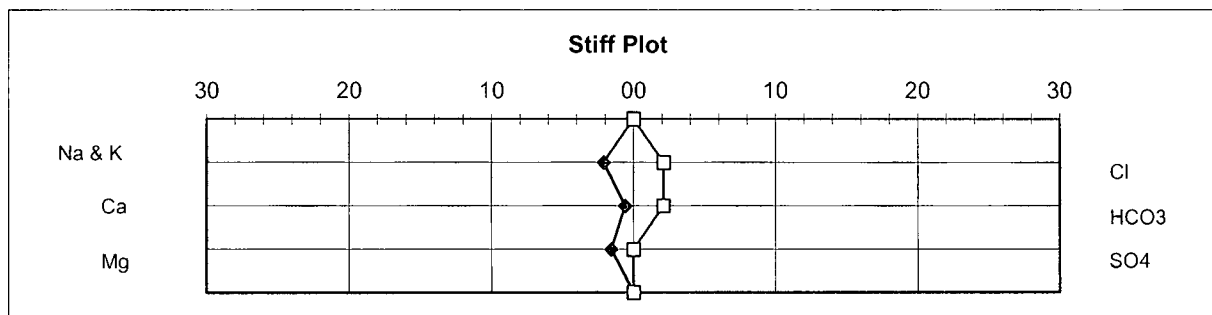
Chloride	7600	214.4	7495
Sulfate	0	0.0	0
Hydroxide	0	0.0	0
Carbonate	< 1	----	----
Bicarbonate	1305	21.4	1287

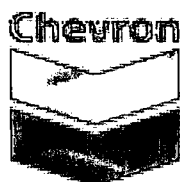
SUMMARY

Total Dissolved Solids(calc.)	14087		13892
Total Hardness as CaCO3	1101	22.0	1086

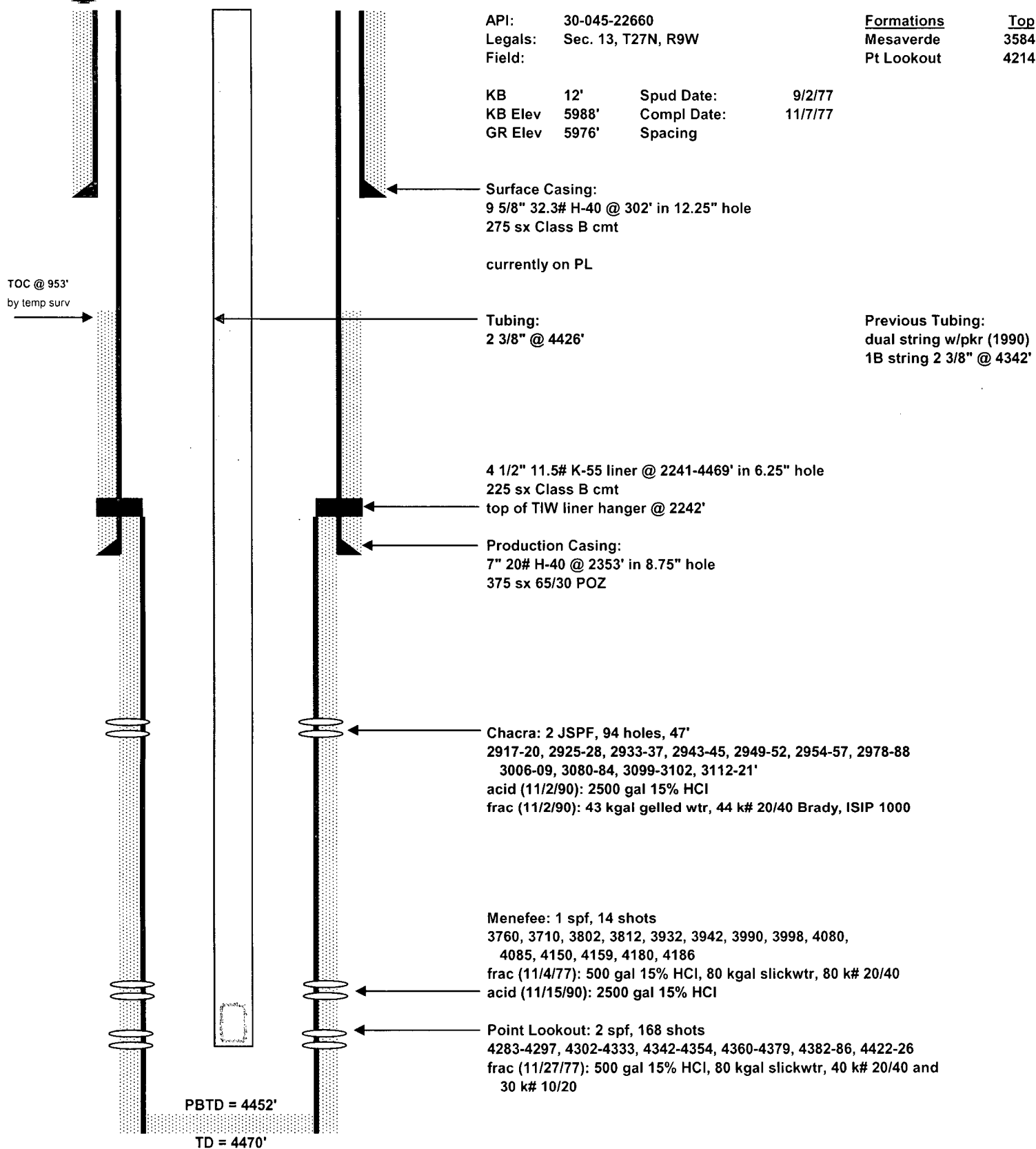
Scaling Tendencies

CaCO3 Factor 157039.6 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 0 Calcium Sulfate Scale Probability -----> REMOTE





John Charles 6A
San Juan County, New Mexico
Current Well Schematic as of May 11, 2010



Prepared by: Jason Chow
Date: 5/10/2010

Revised by:
Date: