



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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[http://emmr.state.nm.us/ocd/District III/3distric.htm](http://emmr.state.nm.us/ocd/District%20III/3distric.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test ~~8-31-12~~ 8-31-12 Operator FOUR STAR OIL-S&S API # 30-045-065-45
Property Name JOHN CHARLES Well No 6 Location: Unit Section 13 Township 27N Range 9W
Well Status (Shut-In or Producing) Initial PSI: Tubing 11.2 Intermediate X Casing 36.2 Bradenhead 21.4

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead	INTERM			
	BH	Int	Csg	Int	Csg
TIME	5 min	36.9			
	10 min	37.4			
	15 min	37.8			
	20 min	38.6			
	25 min	39.2			
	30 min	39.4			

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow <u>X water trickle</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

Oily X AT First

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 20.9

INTERMEDIATE N/A

REMARKS:

Oily at first open, flow 5 gal in 6 min, flow trickle of water for 30 min. Pressure approx 20 psi
Sample taken at BH at start and after 20 min and at production

By Randy calder
calder service
(Position)

Witness

E-mail address Randy.c@calderservices.com



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 #: JohnCharles6 BradenHead

Background Information

Reason for Testing:
 Completion type:
 Well History:
 Comments: 1st Opening

Sample Characteristics

Sample Temp: 73 (°F) Viscosity: 1 cp
 pH: 9.64 Color: Clear
 Specific Gravity: 1.000 Odor: None
 S.G. (Corrected): 1.003 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 5.02 Ω-m Filtrates: None

Sample Composition

CATIONS	mg/l	me/l	ppm
Sodium (calc.)	157	6.8	157
Calcium	8	0.4	8
Magnesium	32	2.6	32
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

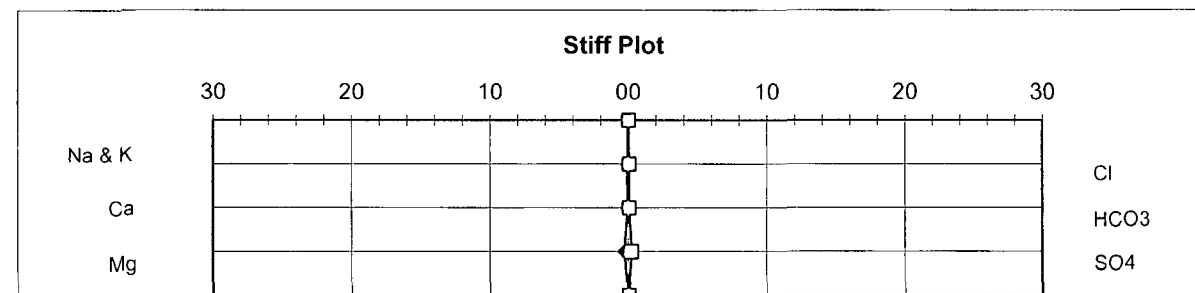
ANIONS	mg/l	me/l	ppm
Chloride	200	5.6	200
Sulfate	120	2.5	120
Hydroxide	0	0.0	0
Carbonate	33	1.1	33
Bicarbonate	37	0.6	37

SUMMARY

Total Dissolved Solids(calc.)	553		553
Total Hardness as CaCO3	150	3.0	150

Scaling Tendencies

CaCO3 Factor 293.532 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 962.4 Calcium Sulfate Scale Probability -----> REMOTE





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 #: JohnCharles6 Production

Background Information

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

Sample Characteristics

Sample Temp: 70 (°F) Viscosity: 1 cp
 pH: 7.35 Color: Clear
 Specific Gravity: 1.007 Odor: None
 S.G. (Corrected): 1.009 @ 60 °F Turbidity: Clear
 Resistivity (Calc): 0.61 Ω-m Filtrates: None

Sample Composition

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	3890	169.2	3863
Calcium	64	3.2	64
Magnesium	78	6.4	77
Barium	0	0.0	0
Potassium	0	0.0	0
Iron	0.00	0.0	0.00

ANIONS

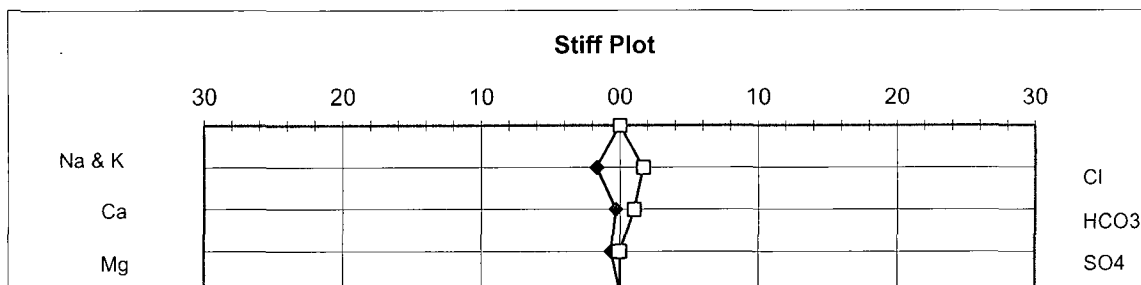
Chloride	6000	169.3	5958
Sulfate	0	0.0	0
Hydroxide	0	0.0	0
Carbonate	< 1	----	----
Bicarbonate	622	10.2	618

SUMMARY

Total Dissolved Solids(calc.)	10654		10580
Total Hardness as CaCO3	480	9.6	477

Scaling Tendencies

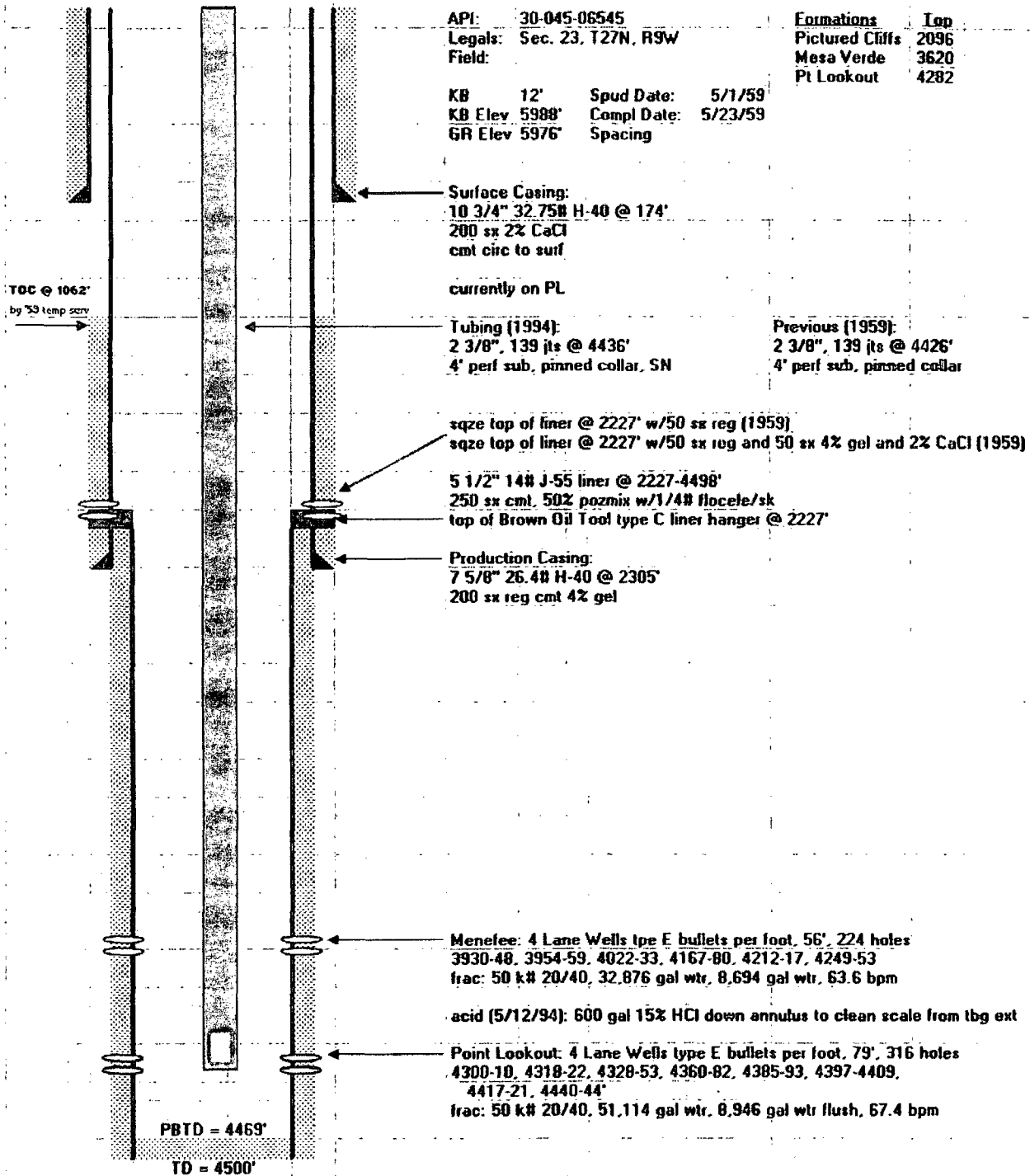
CaCO3 Factor 39920.35 Calcium Carbonate Scale Probability --> REMOTE
 CaSO4 Factor 0 Calcium Sulfate Scale Probability -----> REMOTE





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

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Prepared by: Jason Chow
Date: 5/11/2010

Revised by:
Date: