

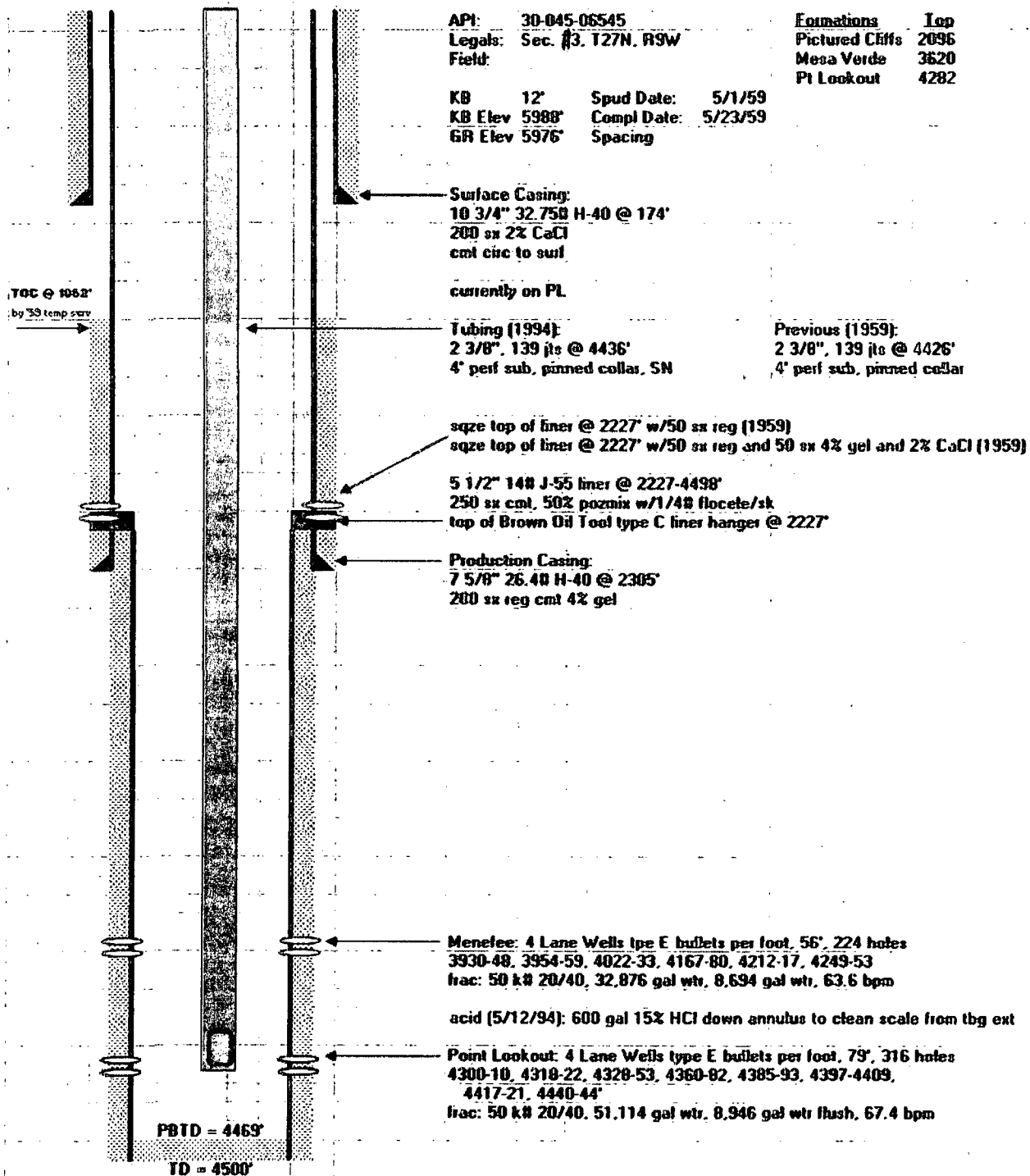


John Charles 6
San Juan County, New Mexico
Current Well Schematic as of May 11, 2010

OIL CONS. DIV DIST. 3

APR 11 2014

84



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

Revised by:
Date:

DOC ID

© Chevron 2005

John Charles #6

API: 30-045-06545

Section 13 T27N R9W

*flow now
BTEX on water*

Bradenhead Repair Procedure:

- Rig up run 4-3/4" bit and scrapper to top of liner @ 2227'
- Set bridge plug at ~2100'
- Load casing with water and test to 500 psi
- Run sector cement bond log from ~2100' to surface.
 - Determine good top of cement
- Perforate 4 squeeze holes at top of cement
 - At approximately 1000' - previous TOC by temp survey in 1959
- Set cement retainer ~50-100' above squeeze holes
- Attempt to establish circulation out the bradenhead and rate
- Cement casing
- WOC
- Drill out retainer and test squeeze hole to 500 psi
 - Re-squeeze if necessary by setting cement retainer 50' above previous setting depth.
 - If cement does not circulate to pit – a subsequent sector cement bond log will be run to identify TOC.
 - Followed with a discussion with the NMOCD on a path forward.
- Continue to drill out bridge plug and cleanout to PBTD of 4469'
- Return well to production

*CBL mention well
fluid level?*

Navajo allotted

*Call Randy -
dig out valves
verify what's under
wellhead*



CHAIN OF CUSTODY FORM

ONE SAMPLE PER SHEET

Chevron Entity:

Chevron Midcontinent L.P.

Chevron USA Inc.

Four Corners Gas & Oil Company

X

Well site/location: John C. Peters 6

API: 030-045-06545

Sample matrix: Soil: Solid: Sludge: Aqueous Other:

Sample Identification: Bradenhead water # and volume of containers 1

Lab identification number: _____

Sampled by (Name): Randy Calcutt

Date: 4-1-14 Time: 9:00 AM

Analysis requested: _____

Relinquished by: Randy Calcutt

Date: 4-2-14 Time: 2:00 PM

Accepted by: _____

Date: _____ Time: _____

Instructions:

Check correct operator entity.

Fill in name of well site and API.

What kind of sample is it? Soil? Mud? Water?

Identify sample- for example: gas from Bradenhead? How many containers? How much do they hold?

Lab identification number? How will they track the sample?

Sampled by: Name of sampler, date of sampling and time of sampling.

Analysis requested: Bradenhead gas? Production water from gas stream? Bradenhead water?

Who dropped off the sample? Date and time.

Who accepted the sample? Date and time.

One form for each location.

Return form - with ALL signatures - to Regulatory Specialist.



75 Suttle Street
Durango, CO 81303
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13 November 2013

Tim Ulrich
Baker Hughes
1215 Basin Rd
Farmington, NM 87401
RE: TPH 8015

Enclosed are the results of analyses for samples received by the laboratory on 11/05/13 14:50.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Debbie Zufelt". The signature is written in a cursive, flowing style.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.



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Baker Hughes
1215 Basin Rd
Farmington NM, 87401

Project: TPH 8015
Project Name / Number: [none]
Project Manager: Tim Ulrich

Reported:
11/13/13 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
John Charles #6 Braden Head	1311023-01	Water	10/29/13 00:00	11/05/13 14:50
John Charles #6 Clear Oil Sample	1311023-02	Water	10/29/13 00:00	11/05/13 14:50

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Project: TPH 8015
Project Name / Number: [none]
Project Manager: Tim Ulrich

Reported:
11/13/13 17:09

Subcontracted -- Cardinal Laboratories

John Charles #6 Braden Head
1311023-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Petroleum Hydrocarbons by GC FID

S-06

Surrogate: 1-Chlorooctadecane 514 % 63.6-154 11/11/13 8015B MS

Surrogate: 1-Chlorooctane	366 %	65.2-140			11/11/13	8015B	MS	
DRO >C10-C28	354000	2000	394	mg/kg	200	11/11/13	8015B	MS
EXT DRO >C28-C35	58900	2000	394	mg/kg	200	11/11/13	8015B	MS
GRO C6-C10	140000	2000	256	mg/kg	200	11/11/13	8015B	MS

John Charles #6 Clear Oil Sample
1311023-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Petroleum Hydrocarbons by GC FID

S-06

Surrogate: 1-Chlorooctadecane 185 % 63.6-154 11/11/13 8015B MS

Surrogate: 1-Chlorooctane	433 %	65.2-140			11/11/13	8015B	MS	
DRO >C10-C28	77000	2000	394	mg/kg	200	11/11/13	8015B	MS
EXT DRO >C28-C35	5980	2000	394	mg/kg	200	11/11/13	8015B	MS
GRO C6-C10	1000000	2000	256	mg/kg	200	11/11/13	8015B	MS

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Debbie Zufelt, Reports Manager

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Project Manager: Tim Ulrich

Reported:
11/13/13 17:09

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3111002 - General Prep - Organics

Blank (3111002-BLK1)

Prepared: 11/10/13 Analyzed: 11/11/13

Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	63.6-154		
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	65.2-140		
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
GRO C6-C10	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						

LCS (3111002-BS1)

Prepared: 11/10/13 Analyzed: 11/11/13

Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	63.6-154		
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	65.2-140		
DRO >C10-C28	169	10.0	mg/kg	200		84.5	61.6-132		
GRO C6-C10	170	10.0	mg/kg	200		84.9	66.4-124		
Total TPH C6-C28	339	10.0	mg/kg	400		84.7	69.7-122		

LCS Dup (3111002-BSD1)

Prepared: 11/10/13 Analyzed: 11/11/13

Surrogate: 1-Chlorooctadecane	55.6		mg/kg	50.0		111	63.6-154		
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	65.2-140		
DRO >C10-C28	180	10.0	mg/kg	200		90.2	61.6-132	6.55	23.1
GRO C6-C10	191	10.0	mg/kg	200		95.4	66.4-124	11.6	23.4
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	69.7-122	9.11	20.6

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Debbie Zufelt, Reports Manager

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Baker Hughes
1215 Basin Rd
Farmington NM, 87401

Project: TPH 8015
Project Name / Number: [none]
Project Manager: Tim Ulrich

Reported:
11/13/13 17:09

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Client: Baker-Hughes		Phone#	Contact: 505-486-5652
1215 Basin Road		E-Mail Address: timothy.ulrich@bakerhughes.com	
Farmington, NM 87401		kevin.scott@bakerhughes.com	
Green Analytical Labs 75 Suttle Street Durango, CO 81303 Phone: 970-247-4220 FAX: 970-247-4227		GAL Work Order # 1311-023, 01-02 PO# Project Name: Blanco Wash CHEVRON	

21.4C
NOICE

6°C #9
on ice

Collection			Miscellaneous				Preservative			Analyses Required				
Sample ID	Date	Time	Collected By: (init.)	Matrix Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	Other	Iron and Manganese PD	THP-8015		Oil & Grease	Corrison Coupon
1. John Charles #6 Braden head	10/29/2013				1						x			
2. John Charles #6 Clear Oil sample	10/29/2013				1						x			
3.														
4.														
5.														
6.														
7.														
8.														
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10.														
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29.														
30.														

Relinquished by:	Date:	Time:	Received By:	Date:	Time:
<i>Timothy Ulrich</i>	11/5/13	1450	<i>Timothy Ulrich</i>	11/5/13	1450
<i>Kangaroo Express</i>	11/5/13	1645	<i>Kangaroo Express</i>	11/5/13	1645
<i>Kangaroo Ex</i>	11/6/13	930	<i>CC Casey</i>	11/6/13	900

John Charles 6 Bradenhead/Tubing Hydrocarbon Comparison

	Analytical Results		
	GRO (C6-C10)	DRO (C10 -C28)	Ext. DRO (C28-C35)
	mg/kg	mg/kg	mg/kg
John Charles 6 (Tubing - Clear Oil)	1000000	77000	5950
John Charles 6 (Bradenhead)	140000	354000	58900

	Normalized Results (% by Wt.)		
	GRO (C6-C10)	DRO (C10 -C28)	Ext. DRO (C28-C35)
John Charles 6 (Tubing - Clear Oil)	92%	7%	1%
John Charles 6 (Bradenhead)	25%	64%	11%