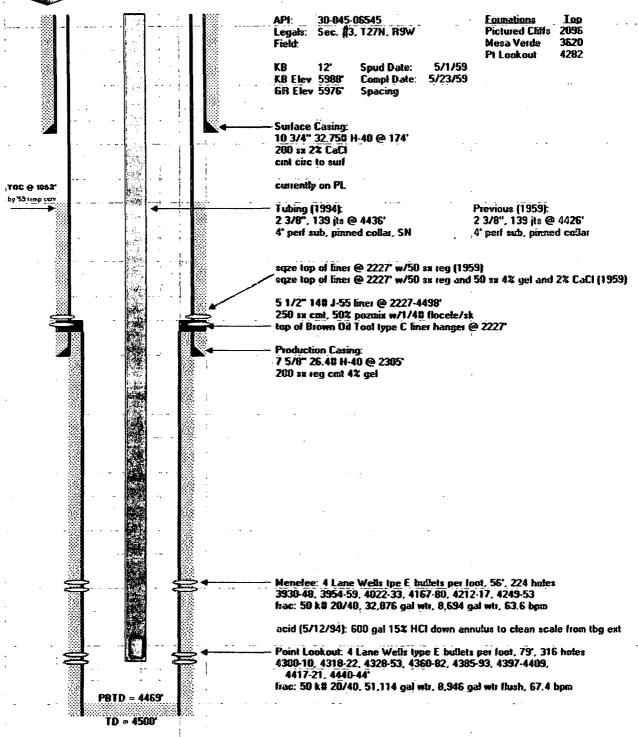
APR 1 1 2014

Chevron

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



Prepared by: Jason Chow Date: 5/11/2010 Revised by Date: 11 000

Chevron 2005

John Charles #6

API: 30-045-06545

Section 13 T27N R9W

Breken 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.
 - o Determine good top of cement
- Perforate 4 squeeze holes at top of cement
 - o 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
 - o Re-squeeze if necessary by setting cement retainer 50' above previous setting depth.
 - o 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 on entire well fluid level? Navago alloted

Call Randy valves under whats under wellhead



CHAIN OF CUSTODY FORM

ONE SAMPLE PER SHEET

Chevron Midcontinent L.P. Chevron USA Inc.
Four Corners Gas & Oil Company
Well site/location: Tornchules 6 API: 030-045-06543
Sample matrix: Soil: Solid: Sludge: Aqueoux: Other:
Sample Identification: Budechel water # and volume of containers
Lab identification number:
Sampled by (Name): Randy calcut
Date: 4-1-14 Time: 908/14
Analysis requested:
Relinquished by: Lend Colot
Date: 4-2-14 Time: 200pa
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 disprind off the complete and time
Who accepted 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 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

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,

Debbie Zufelt

Reports Manager

Deldie Zufett

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



www.GreenAnalytical.com

Baker Hughes

Project: TPH 8015

1215 Basin Rd

Project Name / Number: [none]

Reported:

Farmington NM, 87401

Project Manager: Tim Ulrich

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

Deldie Zufett

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



www.GreenAnalytical.com

Baker Hughes

Project: TPH 8015

1215 Basin Rd

Project Name / Number: [none]

Reported:

Farmington NM, 87401

Project Manager: Tim Ulrich

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
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
Petroleum Hydrocarbons by GC FID			·		·····			······	S-06
Surrogate: 1-Chlorooctadecane			185 %	63.6-154		11/11/13	8015B		MS
Surrogate: 1-Chlarooctane			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

Green Analytical Laboratories

Deldie Zufett

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



www.GreenAnalytical.com

Baker Hughes

Project: TPH 8015

1215 Basin Rd

Project Name / Number: [none]

Reported:

Farmington NM, 87401

Project Manager: Tim Ulrich

11/13/13 17:09

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3111002 - General Prep - Organics										
Blank (3111002-BLK1)				Prepared: 1	1/10/13 An	alyzed: 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: 1	1/10/13 An	alyzed: 11	1/11/13	·		
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 Ar	alyzed: 11	1/11/13			, 21-14-
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	

Green Analytical Laboratories

Deldie Zufett

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



www.GreenAnalytical.com

Baker HughesProject:TPH 80151215 Basin RdProject Name / Number:[none]Reported:Farmington NM, 87401Project Manager:Tim Ulrich11/13/13 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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

in Zufelt

Client: Baker-Hughes 215 Basin Road			Phon E-Ma		lress:	timot	hy.ulr	ich@t	Conta bakerl	nughe	s.con	486-5 <u>n</u>		
armington, NM 87401										<u>kevin</u>	.scot	t@bal	cerhu	hes.cc
Green Analytical Labs 5 Suttle Street Durango, CO 81303 Phone:970-247-4220 AX: 970-247-4227	21. NO	h	PO#	ŧ			•			23, EVR		ΟZ		6
Collection	· · · · · · · · · · · · · · · · · · ·		Mi	scell	anec	us	Pre	serva	ative	An	alys	es R	equir	ed
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 Coupor
John Charles #6 Braden head	10/29/2013				1						х			
John Charles #6 Clear Oil sample	10/29/2013				1						х			
								<u> </u>						
						ļ	ļ							
							L							
			ļ				ļ	ļ					<u> </u>	
· · · · · · · · · · · · · · · · · · ·													<u> </u>	
0.			ļ				L	ļ						
1.			.											
2			ļ										<u> </u>	
3.			ļ					ļ					<u> </u>	
4.			ļ					ļ						
5.			ļ											
6.								<u> </u>						
7			ļ											
8.			ļ									_		\blacksquare
9.		<u> </u>	ļ											
0.			 									ļ		
1.			 											
2.			-					-		-				
3.			-			ļ				-			 	
4.		<u> </u>			· · · i		-			\vdash			ļ	
5.		<u> </u>											-	
7			 	L									-	\vdash
7.			-											
3. 9.			 									-		\vdash
),			ļ					-					-	H
Relinquished by:	Detai	Time	Boh	eived	I BV			L			Dete		T:	
Consiguistieu by.		Time: 1456		TAAA		1		1		\dashv	Date:	7/12	Time	57)
Minter Park	11/2/12	17,45	1110	M		4	AV	NS			11/3	1/15	17	101

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%