

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1156759

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15			
Name:	Spot Description:			
Address 1:	SecTwpS. R			
Address 2:	Feet from North / South Line of Section			
City:	Feet from East / West Line of Section			
Contact Person:	Footages Calculated from Nearest Outside Section Corner:			
Phone: ()	□ NE □ NW □ SE □ SW			
CONTRACTOR: License #	GPS Location: Lat:, Long:			
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)			
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84			
Purchaser:	County:			
	Lease Name: Well #:			
Designate Type of Completion:	Field Name:			
New Well Re-Entry Workover	Producing Formation:			
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Elevation: Ground: Kelly Bushing:			
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Total Vertical Depth: Plug Back Total Depth:			
☐ OG ☐ GSW ☐ Temp. Abd.				
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet			
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?			
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet			
Operator:	If Alternate II completion, cement circulated from:			
Well Name:	feet depth to:w/sx cmt.			
Original Comp. Date: Original Total Depth:				
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan			
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)			
	Chloride content: ppm Fluid volume: bbls			
Commingled Permit #:	Dewatering method used:			
Dual Completion Permit #:				
SWD Permit #:	Location of fluid disposal if hauled offsite:			
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:			
GSW Permit #:	Lease Name: License #:			
Could Date out Date Decembed TD Counted from D. 1	Quarter Sec TwpS. R			
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date				

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II Approved by: Date:					

Page Two



Operator Name:				_ Lease Na	ıme:			Well #:	
Sec Twp	S. R	East V	West	County: _					
open and closed, flow and flow rates if gas t Final Radioactivity Lo	ow important tops of foring and shut-in pressu o surface test, along wing, Final Logs run to obted in LAS version 2.0 or	res, whether s ith final chart(s tain Geophysi	shut-in pres s). Attach ical Data ai	ssure reache extra sheet i nd Final Elec	ed station f more ctric Lo	c level, hydrosta space is neede	atic pressures, ed.	bottom hole temper	erature, fluid recovery,
Drill Stem Tests Taker (Attach Additional		Yes	☐ No		L	og Formati	on (Top), Dept	h and Datum	Sample
Samples Sent to Geo	logical Survey	Yes	No		Name	Э		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No						
List All E. Logs Run:									
			CASING F	RECORD	Ne	w Used			
		Report all s	strings set-co	onductor, surfa	ace, inte	rmediate, produc	tion, etc.		
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weight Lbs. / F		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ΔD	DITIONAL	CEMENTING	2 / 9011	EEZE RECORD	<u> </u>		
Purpose: Depth Top Bottom Perforate Protect Casing Plug Back TD Depth Top Bottom Type of Cement			# Sacks U		Type and Percent Additives				
Plug Off Zone									
Does the volume of the t	ulic fracturing treatment or otal base fluid of the hydraring treatment information	aulic fracturing to			-	? Yes	No (If No	o, skip questions 2 ar o, skip question 3) o, fill out Page Three	
Shots Per Foot		N RECORD - E					acture, Shot, Cen	nent Squeeze Record	Depth
	opeony i e	orage or Each I	interval i ent	Stated		(**	mount and Nina C	i material Oscoj	Бери
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:	Yes	No	
Date of First, Resumed	Production, SWD or ENH		ducing Meth	od: Pumping		Gas Lift	Other (Explain) _		
Estimated Production Per 24 Hours	Oil Bl	bls.		Mcf	Wate		Bbls.	Gas-Oil Ratio	Gravity
Vented Solo	ON OF GAS: Used on Lease bmit ACO-18.)	Open I		ETHOD OF C	1	Comp. Co	mmingled omit ACO-4)	PRODUCTIO	ON INTERVAL:

Form	ACO1 - Well Completion
Operator	Ainsworth Operating Co.
Well Name	Hammeke 5
Doc ID	1156759

All Electric Logs Run

Dual Induction Log
Sonic Cement Bond Log
Dual Compensated Porosity Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	Ainsworth Operating Co.
Well Name	Hammeke 5
Doc ID	1156759

Tops

Name	Тор	Datum
Heebner	3080	-1276
Toronto	3100	-1296
Douglas	3214	-1410
Brown Lime	3215	-1411
Lansing	3240	-1436
Base KC	3476	-1672
Simpson	3552	-1748
Simpson Sand	3574	-1770
Arbuckle	3607	-1886

OPERATOR

Ainsworth Operating Company Company: 4676 Commercial St. Address:

Suite #412 Salem, OR 97302

Contact Phone Nbr: 503-881-4357 Well Name: Hammeke #5

Sec. 7 - T22S - R11W Location: Pool:

API: 15-185-23810-0000 Field: Max SE State: Kansas Country: USA

00:00

04:55

3695.00ft

1796.00ft

COMPARISON WELL

7, 22S, 11W, STAFFORD

Test Type: Conventional Bottom Hole (Initial)

DST#:1

1804.00 ft (KB)

1796.00 ft (CF)

8000.00 psig

Time:

To:

Scale 1:240 Imperial

Well Name: Hammeke #5 Surface Location: Sec. 7 - T22S - R11W

Bottom Location:

15-185-23810-0000 API:

License Number: 6030 Spud Date: 7/1/2013 Time: Stafford County Region:

Drilling Completed: 7/9/2013 Surface Coordinates: 2000' FSL & 2150' FEL

Bottom Hole Coordinates:

Ground Elevation: 1796.00ft

Contact Geologist:

K.B. Elevation: 1804.00ft 2950.00ft Logged Interval: Total Depth: 3695.00ft

Company:

K.B. Elevation:

Formation: Arbuckle Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical Latitude: Longitude:

N/S Co-ord: 2000' FSL E/W Co-ord: 2150' FEL

LOGGED BY

Keith Reavis Consulting Geologist

Keith Reavis, Inc.

Address: 3420 22nd Street Great Bend, KS 67530 Phone Nbr: 620-617-4091

KLG #136 Name: Logged By: Keith Reavis

CONTRACTOR

Contractor: Southwind Drilling, Inc. Rig #:

1804.00ft

Rig Type: mud rotary Spud Date: 7/1/2013

Time: 00:00 TD Date: 7/9/2013 Time: 04:55 Rig Release: Time:

> **ELEVATIONS Ground Elevation:**

K.B. to Ground: 8.00ft

NOTES

After evaluations of drill stem test data, sample analysis and area production history, the operator elected to set 5 1/2" production casing to further test the Simpson Sand through perforations and stimulation. Tests on the Viola and Arbuckle proved non-commercial.

The gamma ray and caliper curves were imported into this mudlog along with the ROP to provide relative correlation. Actual log tops and drill time in this well were pretty close. Curves were not shifted to provide an exact match but left as recorded in the field.

Respectfully submitted, Keith Reavis

7:00 AM DEPTH

DATE

Ainsworth Operating Company daily drilling report

REMARKS

07/06/2013	3234	Geologist Keith Reavis on location @ 0125 hrs, 3074 ft., drilling ahead Topeka, Heebner, Toronto, LKC, BKC, short trip
07/07/2013	3540	complete short trip, resume drilling, BKC, conglomerate, Viola, show in Viola warrants test, TOH for DST #1, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Simpson, show in Simpson sand warrants test, TOH for DST #2
07/08/2013	3591	conduct and complete DST #2, successful test, out w/tools in w/bit, resume drilling, Simpson, Arbuckle, show in Arbuckle warrants test, TOH for DST #3 conduct and complete DST #3, mis-run, TIH w/bit
07/09/2013	3695	Rat-hole ahead for logs, TD @ 3695 ft. 0455 hrs, TOH w/bit, conduct and complete logging operations, TIH w/test tools, conduct DST #4 straddle test qeologist released 2100 hrs

Ainsworth Operating Company well comparison sheet

	Hammeke #5				Ainsworth - Hammeke #1-C				
	2000' FSL & 2150' FEL				SW NW NE				
	S	ec. 7 - T2	2S - R11	LW	Se	Sec. 7 - T22S - R11W			
							Struct	tural	
	1804	KB			1786	KB	Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Heebner	3081	-1277	3080	-1276	3063	-1277	0	1	
Toronto	3103	-1299	3100	-1296	3083	-1297	-2	1	
Douglas	3116	-1312	3214	-1410		Ž.			
Brown Lime	3216	-1412	3215	-1411	3195	-1409	-3	-2	
Lansing	3239	-1435	3240	-1436	3220	-1434	-1	-2	
Lansing H	3376	-1572	3372	-1568					
Base KC	3484	-1680	3476	-1672	3467	-1681	1	9	
Viola	3516	-1712	3516	-1712	3494	-1708	-4	-4	
Simpson	3552	-1748	3552	-1748	3532	-1746	-2	-2	
Simpson sand	3572	-1768	3574	-1770	3551	-1765	-3	- 5	
Arbuckle	3607	-1803	3607	-1803	3584	-1798	-5	- 5	
Total Depth	3695	-1891	3690	-1886	3690	-1904	13	18	
Drill Stem Test #1									

DRILL STEM TEST REPORT

A INSWORTH OPERATING CO. ESTING , INC.

DRILLING WELL

4676 COMMERCIAL ST, SE# 412 HAMMEKE #5 SALEM, OR 97302 Job Ticket: 53922

Test Start: 2013.07.07 @ 08:05:00 ATTN: KEITH REAVIS

Capacity:

Formation: VIOLA Deviated: Whipstock: No

GENERAL INFORMATION:

Interval: 3516.00 ft (KB) To 3540.00 ft (KB) (TVD)

RILOBITE

RANDY WILLIAMS Time Tool Opened: 10:03:00 Tester: Time Test Ended: 13:28:15 Unit No: 43

Reference Bevations: Total Depth: 3540.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF:

ft (KB)

8.00 ft Serial #: 6799

Press@RunDepth: 12.06 psig @ ft (KB) Start Date: 2013.07.07 End Date:

TEST COMMENT: IF-10- WEAK SURFACE BLOW P-PON- NRR

2013.07.07 Last Calib.: 2013.07.07 Start Time: 2013.07.07 @ 10:02:45 08:05:05 End Time: 13:28:14 Time On Btm: Time Off Btm: 2013.07.07 @ 11:47:30

FF-19- NO BLOW, FLUSHED TOOL FSI-5- NBB

Pressure vs. Time PRESSURE SUMMARY Pressure Time Temp Annotation (Min.) (deg F) (psig)

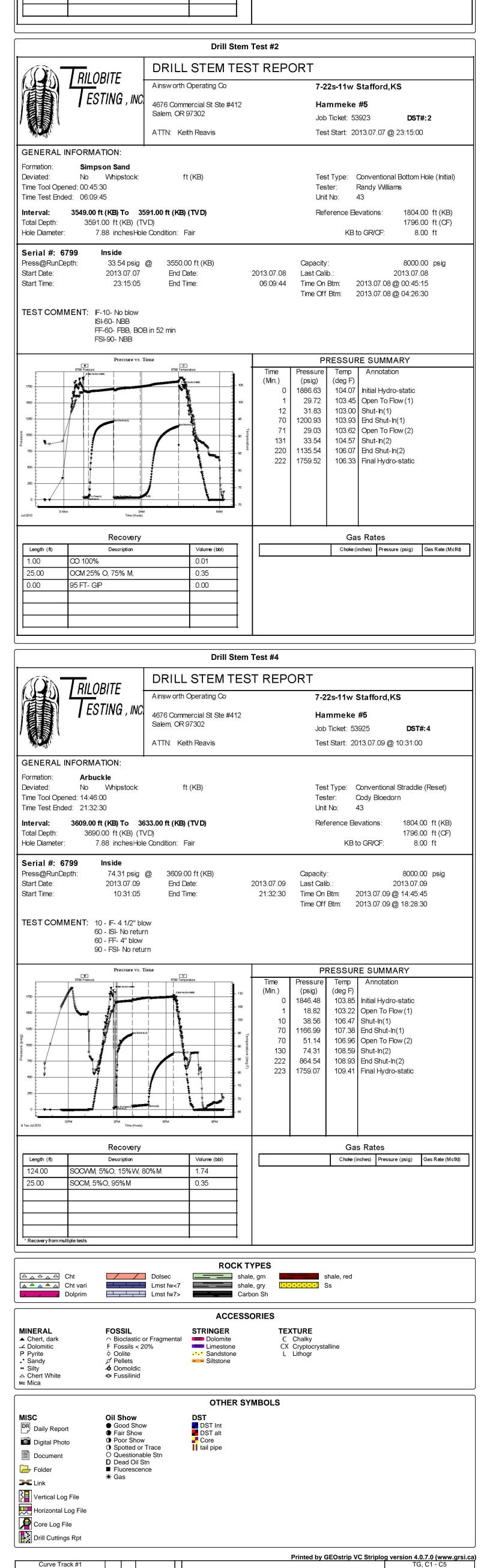
0

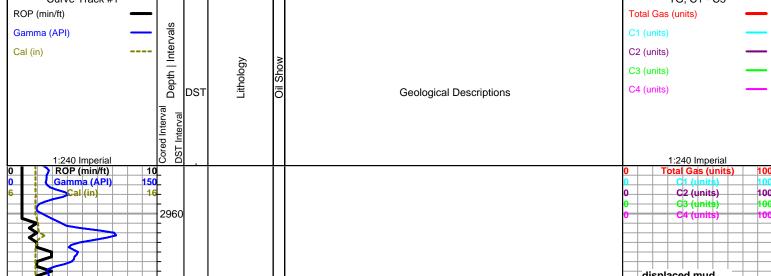
1782.36

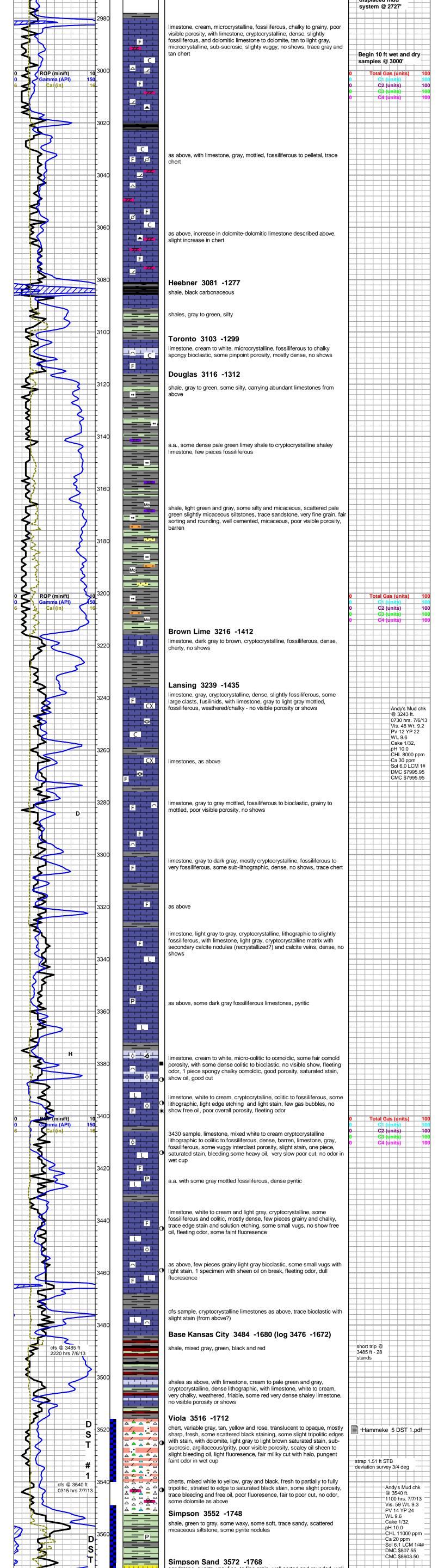
101.08

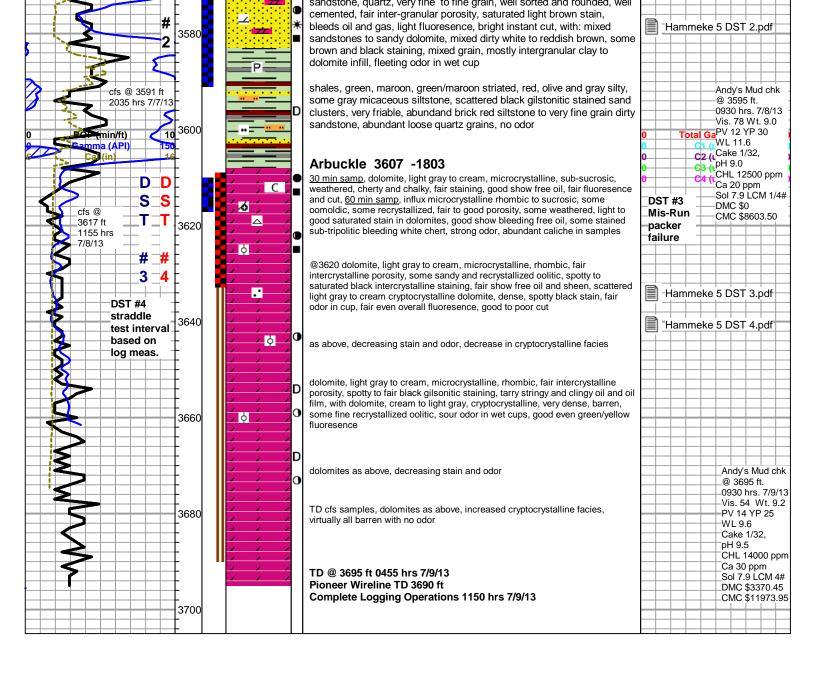
Initial Hydro-static

Volume (bbl) Gas Rate (Mcf/d) Length (ft) Description Choke (inches) Pressure (psig) 2.00 MUD 100% 0.03









Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

October 15, 2013

Al Ainsworth Ainsworth Operating Co. 4676 COMMERCIAL ST., SE #412 SALEM, OR 97302

Re: ACO1 API 15-185-23810-00-00 Hammeke 5 SE/4 Sec.07-22S-11W Stafford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Al Ainsworth

QUALITY OILWELL CEMENTING, INC. Federal Tax 1.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6705

Date 7-1-13 Sec.	Twp. Range	County State On Location	2. Finjsh AM
WHAT TOUR PROPERTY OF SA	Locati	on me a spec DE 15 Mas None	The Carlotte State of
Lease Hounkleke	Well No. 5	Owner	and some series
Contractor Spile 10 10 2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment a	and furnish
Type Job Start file.		cementer and helper to assist owner or contractor to do	work as listed.
Hole Size 12 14	т.D. 305	Charge ATTASTORTIN CARRETTE (8
Csg.	Depth 104	Street	
Tbg. Size	Depth	City State	
Tool	Depth	The above was done to satisfaction and supervision of owner a	gent or contractor.
Cement Left in Csg. 201	Shoe Joint 201	Cement Amount Ordered	
Meas Line	Displace 8 15/152	MAN SAN CAN PROPERTY OF THE PR	
EQUIPN	ENT	Common 300 37 CC 24401 1211	5 Sent man
Pumptrk No. Cementer Helper	o 1. J	Poz. Mix	n de de la companya de la companya La companya de la co
Bulktrk No. Driver Driver	And the second of the second o	Gel.	
Bulktrk No. Driver Driver	2000	Calcium	
JOB SERVICES	& REMARKS	Hulls to the rest of the state	
Remarks:	and the second of the second o	Salt	
Rat Hole	ompresentation like the work of calling	Flowseal	
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	
Baskets	Andrew	CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	
10 6V 176	L. Dr	Handling	
THINAZ	1115	Mileage	
		S S FLOAT EQUIPMENT	Andrew State of States
		Guide Shoe	
(When)	(10)	Centralizer	基金市场的基础
		Baskets	
1 water	produced the second	AFU inserts	
		Float Shoe	
		Latch Down	·····································
्राचनकार सम्बद्धानिक स्थापन स्थाप स्थापन स्थापन	ল বিশ্বনিক্ষিত্র পদ্ধ নির্মেষ্ট্র ব্রহ্ম প্রমানিক বিশ্বনীয়ের ম প্রসাধিক স্থান্ত বিশ্বনীয়ে এক ব্রহ্ম বিশ্বনিক কর্মিক হৈছে।	e formatie fan de foarste fan de fo Die geste fan de foarste fan de foa	united the control of
		Pumptrk Charge	
	New Administration of the September 19	Mileage	
ti kan di kanada di katan nagan yang di kanada k Kanada di kanada ka		Tax	
The same of the same	March Lander War & State	Discount	
Signature //////	Leidens Donald	Total Charge	

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Pho	ne	785	-48	3-2	025
Cell	78	5-3	24-1	04	1

Home Office P.O. Box 32 Russell, KS 67665

No. 7259

	Sec.	Twp.	Range	- (County	State	On I	_ocation	Finish
Date 7-10-13	7	22	11	St	afford	KS		·	9:00 AM
					on IKE +	Joes 15	ME	Ninto	
Lease Hammel	Well No. 5		Owner						
Contractor Souther			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish						
Type Job Production		cementer an	d helper to assist	owner or cor	tractor to do	work as listed.			
Hole Size 7 1/8 T.D. 36 95 FF					Charge A	ins worth	Oper	ating	<i></i>
Csg. $\frac{5}{1}$		Depth	3701ft	.1.	Street			· · · · · · · · · · · · · · · · · · ·	
Tbg. Size Depth					City State				
Tool Part Callar Depth 555ft					The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg. 39	10 ft	Shoe J	oint 39.10	f+	Cement Amo	ount Ordered 🔌	20 com	10%5	alt 5 % gilsoni
Meas Line	EQUIPN	Displac	e 89 bbl			<u> </u>			
	<u></u>		Common 2	<u> </u>					
Pumptrk / 7 No. Cementer Mart					Poz. Mix				
Bulktrk / No. Driver Do vi 9					Gel.				
Bulktrk PU No. Driver Breff					Calcium			·	
JOB SE	-	Hulls			<u> </u>				
Remarks:					Salt /7				
Rat Hole 30 54		Flowseal							
Mouse Hole 20 5x		Kol-Seal	00#						
Centralizers 2, 4,6,9	17+73		Mud CLR 48	3 500 gal					
Baskets 5 18 +	.		CFL-117 or	CD110 CAF 38		<u></u>			
Port Collar 7	fr		Sand						
				À	Handling	27			
Dropped	ball	Cir	Calated 1	h:	Mileage				
Ran mad			5 %	FLOAT EQUI	PMENT		A		
Plugged Rat + Mouse hole					Guide Shoe				
Mixed 150 sx down hole					Centralizer	- 9			
Displaced 9		Baskets	3						
Floor held					AFU Inserts				
Rivered down					Float Shoe	~]			
		Latch Down			**************************************				
Lift press		Port C	allor-/						
Lander @		Pumptrk Ch	arge Drew	Lorg 5	Frie				
	:	Mileage /	6		/				
	1. 1.							Tax	
		2/	1			1. 1. 1. N		Discount	
X Signature				•	Т	otal Charge			