Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1352171

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:			F6	eet from North /	South Line of Section
City: State: Zip:+			Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground: Kelly Bushing:		
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)			Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):			Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
Recompletion Date		Recompletion Date	County:	Permit #:	

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 III Approved by: Date:

1352171

Sec Twp	v important tops of for g and shut-in pressu surface test, along w Final Logs run to ob in LAS version 2.0 o	ormations ires, whe ith final c	s penetrated. D ther shut-in pre hart(s). Attach physical Data a	etail all cor ssure reach	es. Rep	ort all final copi		ests giving inter	
open and closed, flowing and flow rates if gas to s Final Radioactivity Log,	g and shut-in pressu surface test, along w Final Logs run to ob in LAS version 2.0 o	ires, whe ith final c tain Geo	ther shut-in pre hart(s). Attach physical Data a	ssure reacl	ned stati				
	in LAS version 2.0 o				t if more			tioni note tempe	erature, fluid recover
			AND an image f			gs must be ema	ailed to kcc-well-lo	ogs@kcc.ks.gov	v. Digital electronic lo
Drill Stem Tests Taken (Attach Additional She	eets)	Ye	es No		_ L		on (Top), Depth a		Sample
Samples Sent to Geolog	gical Survey	☐ Ye	es 🗌 No		Name	9		Тор	Datum
Cores Taken Electric Log Run		☐ Y€							
List All E. Logs Run:									
		Repo	CASING ort all strings set-c		Ne		ion, etc.		
Purpose of String	Size Hole Drilled	Siz	re Casing t (In O.D.)	Weig Lbs./	jht	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTIN	IG / SQU	EEZE RECORD			
Purpose: Perforate	Top Bottom			# Sacks	# Sacks Used Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone									
Did you perform a hydraulic Does the volume of the tota Was the hydraulic fracturing	l base fluid of the hydra	aulic fractu	ıring treatment ex		-	Yes [Yes [Yes [No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Shots Per Foot			RD - Bridge Plugs Each Interval Perf				cture, Shot, Cemen		Depth
TUBING RECORD:	Size:	Set At:		Packer At	::	Liner Run:	Yes No		
Date of First, Resumed Pro	oduction, SWD or ENH	IR.	Producing Meth	od:	g 🗌	Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls.	Gas	Mcf	Wate	er E	bls.	Gas-Oil Ratio	Gravity
DISPOSITION Vented Sold (If vented, Submi	Used on Lease		N Dpen Hole	IETHOD OF		Comp. Co	mmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:

Form	ACO1 - Well Completion
Operator	HB Energy LLC
Well Name	HALEEM 2
Doc ID	1352171

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	11	7	10	20	Portland	4	50/50 POZ
Production	5.625	2.875	8	924	Portland	125	50/50 POZ

Lease Owner:HB Energy

Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding: Well: Haleem # 2 (913) 294-2125 4/12/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-37	Soil-Clay	37
21	Shale	58
6	Lime	64
2	Shale	66
15	Lime	81
7	Shale	88
9	Lime	97
4	Shale	101
21	Lime	122 ·
17	Shale	139
5	Limey Sand	144
5	Shale	149
24	Lime	173
32	Shale	205
12	Lime	217
18	Shale	235
8	Lime	243
8	Shale	251
12	Lime	263
17	Shale	280
8	Lime	288
10	Shale	298
4	Lime	302
33	Shale	335
1	Lime	336
9	Shale	345
24	Lime	369
7	Shale	376
23	Lime	399
4	Shale	403
5	Lime	408
3	Shale	411
5	Lime	416
29	Shale	445
10	Sand	455
5	Sandy Shale	460
128	Shale	588
5	Lime	593
4	Shale	597
3	Lime	600



Johnson County, KS Town Oilfield Service, Inc. Commenced Spudding: Well:Haleem # 2 (913) 294-2125 Commenced Spudding: 4/12/17

Lease Owner:HB Energy

8	Shale	608
6	Lime	614
16	Shale	630
4	Lime	634
8	Shale	642
6	Lime	648
20	Shale	668
1	Lime	669
2	Shale	671
2	Lime	673
51	Shale	724
1	Lime	725
21	Shale	746
10	Sand	756
4	Sandy Shale	760
16	Shale	776
1	Lime	777
97	Shale	874
1	Sand	875
20	Core	895
45	Shale	940-TD



	Core	
		875
8.5	Sand	883.5
4	Sandy Shale	887.5
6	Sand	893.5
1.5	Sandy Shale	895

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D²x.14xh D equals diameter in feet. h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

TO FIGURE PUMP DRIVES

- * D Diameter of Pump Sheave
- * d Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

*C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) + $\frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS

746 WATTS equal 1 HP

Log Book

Well No.	<u> </u>	
Farm <u>Ha</u>	leem	
(State)	لم الم	hason (County)
(Section)	/S (Township)	21 (Range)
For HB	Energy (Well Owner)	, inc
15-501	2000	

Town Oilfield Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

Haleem Farm: Johnson county CASING AND TUBING MEASUREMENTS KS State; Well No. 2 Feet Feet Feet ln. 1020 F40a Commenced Spuding Finished Drilling Driller's Name Driller's Name Tool Dresser's Name Tool Dresser's Name Strven Tool Dresser's Name Contractor's Name (Range) (Section) (Township) Distance from ___ Distance from ___ 4 sacks 1 core 11 hrs 55/8 borehole CASING AND TUBING RECORD 10" Set _____ 10" Pulled _____ 8" Set _____ 8" Pulled _____ 704" Set 20 6¼" Pulled _____

-1-

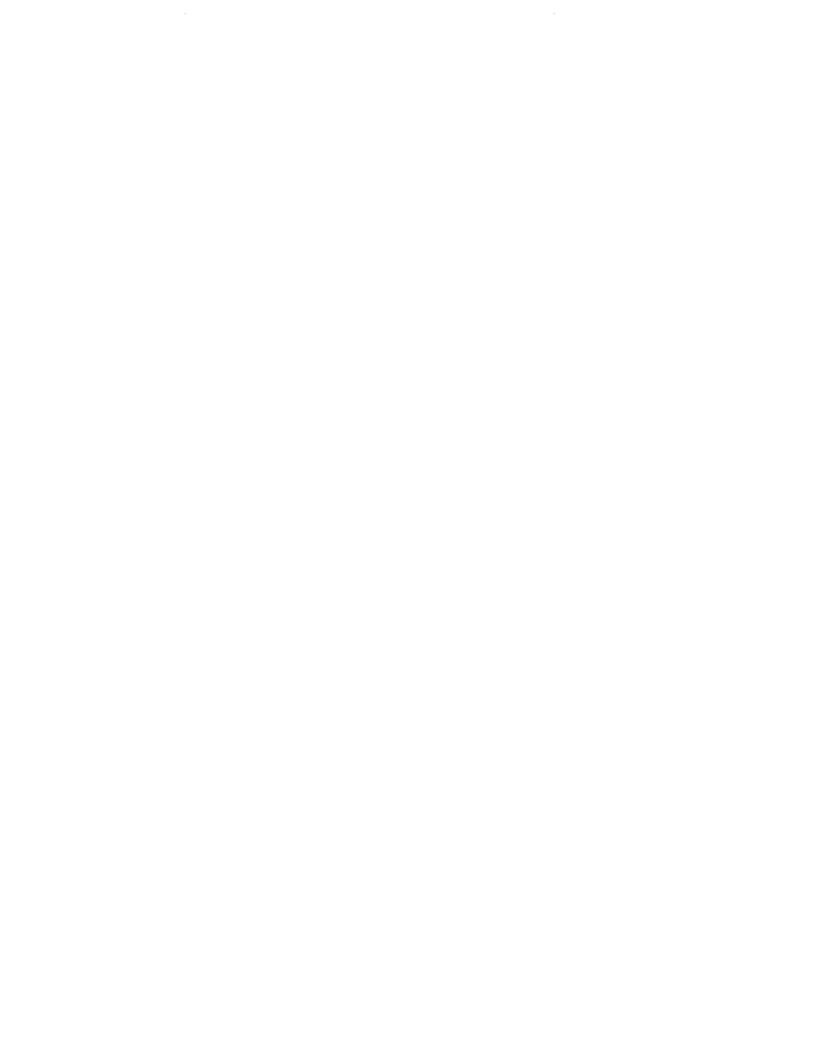
4" Set _____

2" Set _____

4" Pulled _____

2" Pulled _____

Thickness of Strata	Formation	Total Depth	Remarks
0-37	Soil-clay	37	
21	Shale	58	
6	Lime	64	
2	Shale	66	,
15	Lime	81	
7	Shal-e	88	
9	Lime	97	
4	shale	101	
21	Lime.	122	
17	Shale,	139	redbed
5_	limey sand	144	
_5	Shale	149	
24	Lime	173	
32	Shale	205	
12	Line	217	
18	<u>Shale</u>	235	
8	Line	243	
8	Shale	251	
12	Lime	265	
, ,	<u>Shale</u>	280	
E	Lime	288	
10	<u>Shale</u>	298	radbed
4	Lime	302	•
33	Shale	335	
- <u> </u>	Lime	556	
-	Thale	345	
24	Lime	369	



		369	_
Thickness of Strata	Formation	Total Depth	Remarks
7	Shale	376	
23	Lime	399	
4	Shale	403	
5	Lime	408	
3	Shale	411	
5	Lime	416	Heltha
29	Shale	1445	
10	Sanel	455	no Oil - grey
5	sandy shelf	460	3 /
128	shale	588	
5	Lime	593	
4	Shale	597	
3	Lime	600	
8	Shale	608	
6	Lime	614	
16	Shale	630	
4	Lime	634	
8	Shale	642	
6	Lime	648	
20	Shale	668	redbeel
/	Lime	669	
2	Shale	671	
2	Lime	673	
51	Shale	124	
	Lime	725	
21	Shale	746	
10	Sanel	756	broken- gas adol

-5-

-4-

		756	
Thickness of Strata	Formation	Total Depth	Remarks
4	sandy shalp	760	
16	5hale	776	
/	Lime	777	
97	Shale	874	
/	Sand	875	solid- henry oil -pert
20	cose	895	page 81
45	Shale	940	+8
			•
			(4
	-		
		,	
		·	y:
		<u>.</u>	

Thickness of Strata	Formation	Total Depth	Remarks
	Core		
		875	
1 8.5	Sand	883,5	mostly solid - heavy oil
4	Sandy Sheld	0011	no 000
(0)	Sand	893,5	broken-very little Oil
1,5	Sandy Stale	895	no oil
	ŧ		
	0	4	Q

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TICKET NUMBER LOCATION O Hawa FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720

FIELD TICKET & TREATMENT REPORT

620-431-9210 or 800-467-8676 CEMENT WELL NAME & NUMBER SECTION TOWNSHIP RANGE COUNTY CUSTOMER# DATE 4.13-17 $P \mathcal{M} \mathcal{U}$ CUSTOMER DRIVER TRUCK # DRIVER TRUCK# Fre Med 7/2 Hai Bec 495 ZIP CODE Ki Dax 675 46097 Mik Hom KS 507 CASING SIZE & WEIGHT 278 EUE 9401 HOLE SIZE HOLE DEPTH JOB TYPE Lange Yes **OTHER** DRILL PIPE TUBING CEMENT LEFT in CASING WATER gal/sk **SLURRY VOL SLURRY WEIGHT** MIX PSI DISPLACEMENT PSI_ DISPLACEMENT 100-4 Surface. Lo

Town oil all Sexuices.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450		PUMP CHARGE 49.5		
CE0002	25 m.	MILEAGE 45 €	17825	
(E 9711	Minimon	Ton Miles Delivery 503		
WE 0 553	2 hrs	80 BBL Vac Truck. 675	200=	
		Sub Total Less 55%	2538™	1142.44
CC 2840	1252146	Por Bland IA Count	168750	
CC 5945	.3 /o .sk	Bentando Col.	934	
cf6075	3,*	Cello flake	42 ***	
CP8176	<u> </u>	25" Rubber Plug	45°=	
		Eub Total Less 55%	15875	8493
		7.9757.		828
Ravin 9737	A		ESTIMATED TOTAL	20746
AUTHORIZTION 3	X. "	TITLE	DATE	(4610.2

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

TERMS

In consideration of the prices to be charged for Consclidated Oit Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials. Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum of the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and atternal fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures or materials used for any service which is to be performed.

- (a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.
- (b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS. Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, toxing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are fost or left in the well.

- (c) COWS makes no guarantee of the effectiveness of any COWS products, supplies or materials, or the results of any COWS treatment or services.
- (d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others. COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage prising from the use of such information except where due to COWS gress negligence or willful misconduct in the preparation or turnishing of it.
- (e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A& B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise.) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.