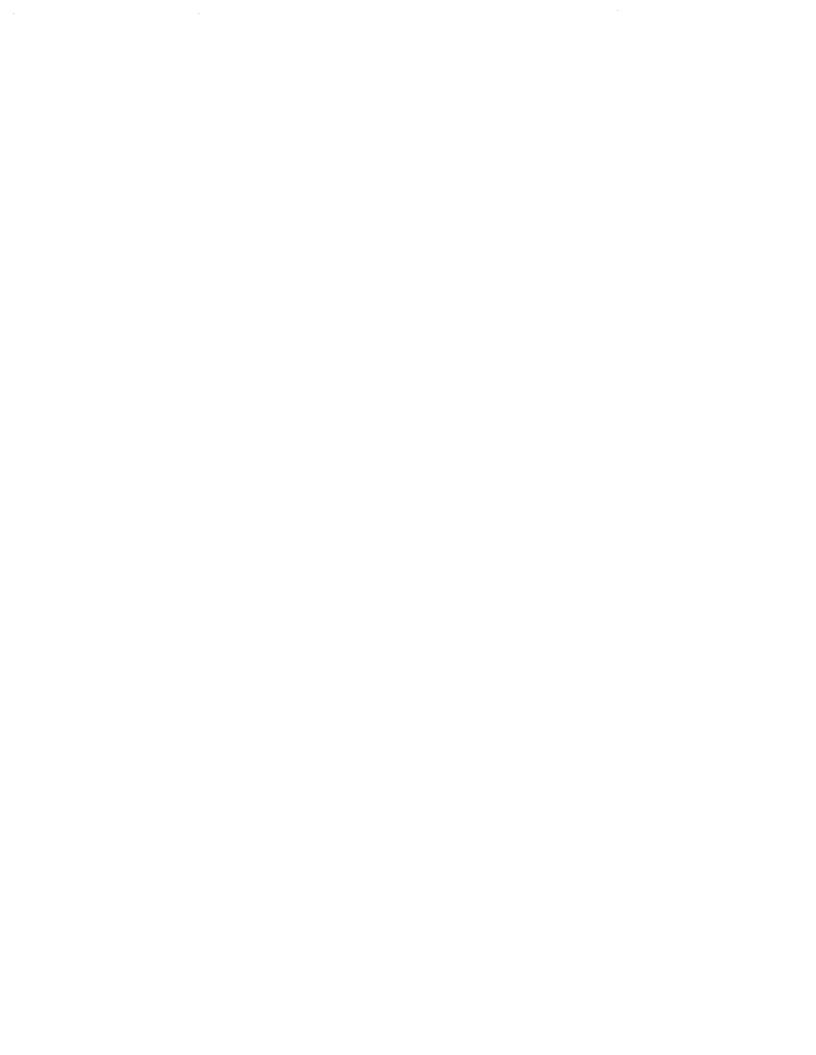
Lease Owner:HB Energy

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
		
	1	<u> </u>



	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.	\prec	
Farm <u>Hq</u>	leem	
(State)	یک	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	
, ,	Shale	280	
G	Lime	288	
10	<u>Shale</u>	298	rabed
4	Lime	225	-
33	Shale	335	
- /	Lime	556	
	Shale	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	445	
10	Sanel	455	no Oil - arey
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	654	
8	Shale	642	·
6	Lime	648	
20	Shale	666	redbeel
/	Lime	669	
2	Shale	671	
2	Lime	673	
51	Shale	124	l ·
	Lime	125	
21	Shale	746	
10	Sanel	756	broton- gas odor

-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
			•
:			
	-		
		·	<i>y</i> .

Thickness of Strata	Formation	Total Depth	Remarks
	Core		
			7.
		875	
14 85.5	Sand	883,5	mostly solid - heavy oil
4	Sandy Shele		100 0 °
(0)	Sand	893,5	broken-very little Oil
1,5	Sandy Stale	895	no oil
			:
	0		G

-9-





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 495	17825	
(E 9711	Minimon	Ton Miles Dalivery 503		
WE 0 853	2 hrs	80 BBL Vac Truck. 675	200=	
		Sub Total Less 55%	2538™	1142.44
CC 5840	1252146	Por Bland IA Count	168750	
CC 5865	.3/8 ⁻²⁴	Bentante Col.	934	
cf 6075	3 <i>i</i> **	Cello flake	/2°	
CP8176	<u>l</u>	25" Rubber Plug	450=	
		Sub Total Less 55%	15875	६५९३
		7.9757.		828
Ravin 3737	A		ESTIMATED TOTAL	207463
AUTHORIZTION ?	* ~~	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 Conschidated 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 lost 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 gross 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.