

# HUGHES DRILLING REPORT

Well No. #15  
 Farm W. Braers  
 SURFACE CASING  
 Size 7 1/2"  
 Feet 23.50  
 Circulated 8 % cement

PERMANENT CSG.  
 Size 2 3/8" Bore Case (Haw)  
 Feet 789.60 of pipe  
 Baffle at 762.60 float shoe on bottom

T. D. at Completion 800'  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

1085 FSL 3720 FEL  
 API # 15-091-26803

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
20	clay	23
11	shale	34
25	lime	59
7	shale	66
12	lime	78
5	shale	83
26	lime	109
7	shale	116
4	lime	120
2	shale	122
9	lime	131
34	shale	165
17	lime	182
53	shale	235
25	lime	260
11	shale	271
7	lime	278
32	shale	310
10	lime	320
22	shale	342
23	lime	365
10	shale	376
20	lime	399
4	shale	403
4	lime	407
3	shale	410
6	lime	416
113	shale	529
4	sl. sand	533
31	shale	564
10	lime	574
11	shale	585
10	lime	595
7	shale	602
5	lime	607
7	shale	614
7	lime	621
16	shale	637
3	lime	640
5	shale	645

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REP.	PIPE TALLY
	FROM	TO		
8-26-14	0	3	soil	(1) 21.5-21.5
23'	3	23	clay	(2) 22.5-44.0
8/27/14	23	34	shale	(3) 22.5-66.5
	34	59	lime	(4) 22.5-89.0
	59	66	shale (dark) (slate 64-66)	(5) 22.5-111.5
	66	78	lime	(6) 22.5-134.0
	78	83	shale	(7) 22.5-156.5
	83	109	lime	(8) 22.5-179.0
	109	116	shale	(9) 22.5-201.5
	116	120	lime	(10) 22.5-224.0
	120	122	shale	(11) 22.5-246.5
	122	131	lime	(12) 22.5-269.0
	131	165	shale	(13) 22.5-291.5
	165	182	lime	(14) 22.5-314.0
	182	235	shale	(15) 22.5-336.5
	235	260	lime	(16) 22.5-359.0
	260	271	shale	(17) 22.5-381.5
	271	278	lime	(18) 22.5-404.0
	278	310	shale	(19) 22.5-426.5
	310	320	lime	(20) 22.5-449.0
	320	342	shale	(21) 22.5-471.5
30'	342	365	lime	(22) 22.5-494.0
	365	376	shale (slate 365-366)	(23) 22.5-516.5
20'	376	399	lime	(24) 22.5-539.0
	399	403	shale (slate 402-403)	(25) 22.5-561.5
	403	407	lime	(26) 22.5-584.0
	407	410	shale	(27) 22.5-606.5

# HUGHES DRILLING REPORT

Well No. 215 Size.....  
 Farm W. Bowers Feet.....  
 Circulated \_\_\_\_\_ ex cement

PERMANENT CSG.  
 Size 2 3/8 3rd EUE (new)  
 Reel 788.60 of pipe  
 Baffle at 762.60 float shoe on Bottom

T. D. at Completion 800  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

1085 FSL 3720 FEL  
 API # 15-059-26803

STRATA THICKNESS	FORMATION DRILLED	T.D.
4	LIME	654
14	SHALE	668
3	LIME	671
10	SHALE	681
11	oil sand	692
34	SHALE	726

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
"Herkus"	410	416	LIME	(28) 22.5 - 681.0
	416	529	SHALE (BRK'd 418-420)	(3) 22.5 - 681.5
"Pencil"	529	533	Gray sand	(3) 22.5 - 674.0
	533	564	SHALE (BRK'd 548-550)	(3) 22.5 - 696.5
	564	671	LIME (BRK'd)	(3) 22.5 - 719.0
	579	585	SHALE	(3) 22.5 - 741.5
	585	595	LIME	(3) 22.5 - 761.0
	595	602	SHALE	(3) 22.5 - 766.5
	602	607	LIME (BRK'd)	
	607	614	SHALE (BRK'd 612-614)	
	614	621	LIME	
	621	637	SHALE	
	637	640	LIME (BRK'd)	
	640	645	SHALE (Lime Break 640-641)	
	645	654	LIME	
	654	668	SHALE	
	668	671	LIME	
#1 Squirted	671	681	SHALE (oil) (677-681)	
	681	692	oil sand (Remarks pg. 3)	
	692	726	SHALE (Lime Break 718)	
	726	727	LIME	
#2 Squirted	727	734	oil sand (Remarks pg. 4)	
	734	765	SHALE (Lime Break 751)	
	765	766	LIME	
	766	800	SHALE	
		711		
	8-28-14		Set 788.60 of 2 3/8 3rd EUE (new)	

Baffle at 762.60 Float shoe on Bottom  
 used 3 centralizers

Start core 684 K.D. 9.5  
 K.D. 10.5 start core 728  
 18 Jts on trailer 16 Jts on trailer

# HUGHES DRILLING CO.

Wellsville, Kansas 66092

Roger 913-883-2235  
Darrel 913-883-4027

CORE-TIME

Rot 913-883-4655  
Clay 913-883-4383

LEASE W. Brass #15  
FORMATION #1 squirrel  
DATE: 8/31/14

(RPM 3" shale Bit)

	FROM FEET	TO	TIME	MINUTES	REMARKS
	681	682	chip		+ sand very laminar w/shale (same)
	682	683	chip		- sand laminar w/shale (bleeding)
	683	684	chip		} sand slightly laminar w/shale
①	684	685	12:45:00 - 12:45:30	:30	(exc. bleed)
②	685	686	12:46:00	:30	} solid sand (exc. bleed)
③	686	687	12:46:30	:30	
④	687	688	12:47:00	:30	+ sand laminar w/shale (bleeding)
⑤	688	689	12:47:45	:45	
⑥	689	690	12:48:30	:45	} scattered strips of sand
⑦	690	691	12:49:30	1:00	(little bleeding)
⑧	691	692	12:50:15	:45	
⑨	692	693	12:51:00	:45	
⑩	693	694	12:52:00	1:00	
⑪	694	695	12:53:15	1:15	} shale
⑫	695	696	12:54:30	1:15	
⑬	696	697	12:55:30	1:00	
⑭	697	698	12:56:45	1:15	
⑮	698	699	12:57:45	1:00 stop	
⑯	699	700			<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <p>Best Perf Zone 683 - 698 CCH</p> </div>
⑰	700	701			
⑱	701	702			
⑲	702	703			
⑳	703	704			<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <p>Heavier Oil than most other wells on this lease Approx. 22 gravity</p> </div>

# HUGHES DRILLING CO.

175.4

Wellsville, Kansas 66092

Roger 913-883-2235  
Darrel 913-883-4027

CORE TIME

Ron 913-883-4655  
Clay 913-883-4383

LEASE W. Proers #15

FORMATION #2 SQUIRREL

DATE: 8/27/14

CRDM 3" shale B.F.

FROM	FEET TO	TIME	MINUTES	REMARKS
726	727	chip	—	Lime
727	728	chip	—	Sand very lamin w/shale <sup>low</sup> <sub>trace</sub>
① 728	729	3:53:00 - 3:53:45	:45	} sand lamin w/shale (exc bleed)
② 729	730	3:54:15	:30	
③ 730	731	3:55:00	:45	} solid sand (exc bleed)
④ 731	732	3:55:45	:45	
⑤ 732	733	3:56:15	:30	} sand lamin w/shale 733-734.5 (exc bleed)
⑥ 733	734	3:57:00	:45	
⑦ 734	735	3:58:00	1:00	} shale 734.5 - 736.5
⑧ 735	736	3:59:00	1:00	
⑨ 736	737	3:59:45	:45	} sand lamin w/shale (bleeding)
⑩ 737	738	4:00:45	1:00	
⑪ 738	739	4:01:45	1:00	} shale
⑫ 739	740	4:03:00	1:15 STOP	
⑬ 740	741			} (Best Perf Zone) 728-734.5 ccf
⑭ 741	742			
⑮ 742	743			
⑯ 743	744			
⑰ 744	745			
⑱ 745	746			
⑲ 746	747			
⑳ 747	748			



**CONSOLIDATED**  
Oil Well Services, LLC

270819

TICKET NUMBER 48129

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-28-14	3425	W. Broer 15	SW 2	16	20	FR
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Hughes Drilling			730	Alan Mader	547	Meat
MAILING ADDRESS			368	Alan Mader		
122 Main			Hughes	Chase		
CITY			503	Tim Hor		
Wellsville						
STATE	ZIP CODE					
KS	66097					

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 800 CASING SIZE & WEIGHT 2 7/8  
 CASING DEPTH 788.6 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 762.6 bf  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 4.43 DISPLACEMENT PSI 800 MIX PSI 200 RATE 46 bpm

REMARKS: Held meeting. Established rate. Mixer & pumped 100# gel followed by 99 sk 50/150 cement plus 3% gel and 1/4# flo seal per sack. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Set that.

Eric

*Alan Mader*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5421	1	PUMP CHARGE	368	1085.00
5406	15	MILEAGE	368	63.00
5402	788.6	casing footage	368	
5407	min	ton miles	503	368.00
1124	99	50/150 cement	1138.50	
1118B	266#	gel	58.52	
1107	25	flo seal	61.55	
		material sub	1258.77	
		less 30%	-377.63	
		material total		881.14
				27.50
				2871.07
		SALES TAX		69.67
		ESTIMATED TOTAL		2496.31

Revin 3737

AUTHORIZATION Jim Olsz

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

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