

# HUGHES DRILLING REPORT

Well No. I-7 Size 7"  
 Farm N. McMillen Feet 26  
 Circulated 10 ex cement

PERMANENT CSG.  
 Size 2 7/8 8'1" EUE (NEW)  
 Exp 804.80 of pipe  
 Baffle at 723 float shoe on Bottom

T. D. at Completion 819  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
19	clay	22
25	shale	37
24	lime	61
6	shale	67
11	lime	78
7	shale	85
20	lime	105
20	shale	125
7	sand	132
11	shale	143
31	lime	174
62	shale	236
23	lime	259
18	shale	277
6	lime	283
27	shale	310
12	lime	322
22	shale	344
24	lime	368
9	shale	377
20'	23	lime 400
	4	shale 404
	4	lime 408
	2	shale 410
"Hertha"	6	lime 416
	163	shale 529
	4	lime 533
	31	shale 564
	14	lime 576
	5	sand 581
	4	shale 585
	9	lime 594
	9	shale 603
	4	lime 607
	10	shale 617
	7	lime 624
	14	shale 638
	3	lime 641
	5	shale 646

DATE	DRILLED		REMARKS - TYPES WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
10/19/15	0	3	Soil	(1) 21.5-21.5
26'	3	22	clay	(2) 22.5-44.0
10/20/15	22	37	shale	(3) 22.5-66.5
558	37	61	lime	(4) 22.5-89.0
PDC Bit	61	67	shale (slate 61-62)	(5) 22.5-111.5
	67	78	lime	(6) 22.5-134.0
	78	85	shale	(7) 22.5-156.5
	85	105	lime	(8) 22.5-179.0
	105	125	shale	(9) 22.5-201.5
	125	132	sand	(10) 22.5-224.0
	132	143	shale	(11) 22.5-246.5
	143	174	lime	(12) 22.5-269.0
	174	236	shale (sdy 181-186)	(13) 22.5-291.5
	236	259	lime	(14) 22.5-314.0
	259	277	shale	(15) 22.5-336.5
	277	283	lime	(16) 22.5-359.0
	283	310	shale	(17) 22.5-381.5
	310	322	lime	(18) 22.5-404.0
	322	344	shale (lime 326-327)	(19) 22.5-426.5
30'	344	368	lime	(20) 22.5-449.0
	368	377	shale (slate 376-377)	(21) 22.5-471.5
20'	377	400	lime	(22) 22.5-494.0
	400	404	shale (slate 403-404)	(23) 22.5-516.5
	404	408	lime	(24) 22.5-539.0
	408	410	shale	(25) 22.5-561.5
"Hertha"	410	416	lime	(26) 22.5-584.0
	416	529	shale (BRKA 420-425) (sdy 459-463)	(27) 22.5-606.5

# HUGHES DRILLING REPORT

Well No. ~~I-7~~ I-7 Size 7"  
 Farm M. M. Miller Feet 26'  
 Circulated 10 sx cement

PERMANENT CSG.  
 Size 2 7/8 8rd EUE (New)  
 Feet 804.80 of pipe  
 Baffle at 773 float shoe on Bottom  
 T. D. at Completion 819  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
9	Lime	655
13	Shale	668
2	Lime	670
7	Shale	677
#1 sq 11	oil sand	698
5	blk sand	693
1	sdylime	694
27	shale	721
1	lime	722
5	shale	727
1	lime	728
1	shale	729
1	lime	730
1	sdylime	731
#2 sq 9	sand	740
79	shale	819
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	529	533	Lime (sdy)	(28) 225-629.0
	533	564	shale	(29) 225-651.5
	564	576	Lime	(30) 225-674.0
	576	581	sand (bleating oil)	(31) 225-696.5
	581	585	Shale	(32) 225-719.0
	585	594	Lime	(33) 225-741.5
	594	603	Shale	(34) 225-764.0
	603	607	Lime	(35) 225-786.5
	607	617	shale	(36) 225-809.0
	617	624	Lime	
	624	638	Shale	
	638	641	Lime (Brown)	
	641	646	shale (slate 641-642)	
	646	655	Lime	
	655	668	shale	
	668	670	Lime (Broken)	
	670	677	shale	
#1 squirrel	677	698	oil sand (remarks pg. 3)	
	698	693	Broken Black Sand	
	693	694	sdylime	
	694	721	shale	
	721	722	lime	
	722	727	shale	
	727	728	Lime	
	728	729	shale	
	729	730	Lime	
	730	731	sdylime	
#2 squirrel	731	740	sand (remarks pg. 4)	
	740	819	shale	
			T.D.	

10-21-15  
 Set 804.80 of 2 7/8 8rd EUE (New)  
 Baffle at 773 float shoe on Bottom  
 used 3 centralizers

# HUGHES DRILLING CO.

(Pg. 3)

Wellsville, Kansas 66092

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

CORE TIME

Ron 913-883-4855  
Clay 913-883-4863

LEASE N. Mendenhall #7

FORMATION #1 squirrel

DATE: 10/30/15

(~~chip~~ chip sample)

	FROM	FEET TO	TIME	MINUTES	REMARKS
①	677	678	sand - very lamin w/shale		(little bleed)
②	678	679	} solid sand (ex. bleed)		
③	679	680			
④	680	681		678-681	
⑤	681	682	} sand very lamin w/shale (bleeding)		
⑥	682	683		681-683	
⑦	683	684	} solid sand (bleeding oil)		
⑧	684	685			
⑨	685	686		683-687	
⑩	686	687			
⑪	687	688	- sand lamin w/shale (bleeding oil)		
⑫	688	689	} Broken black sand		
⑬	689	690			
⑭	690	691			
⑮	691	692		slight bleed of heavy oil	
⑯	692	693			
⑰	693	694	} shale		
⑱	694	695			
⑲	695	696			
⑳	696	697			

(Best Perf Zone  
678-687  
CCT)

# HUGHES DRILLING CO.

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Wellsville, Kansas 66092

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

CORE TIME

Ron 913-883-4856  
Clay 913-883-4383

LEASE N. Maxwell I-7

FORMATION #2 squirrel

DATE: 10/26/15

(chip sample)

	FROM	FEEET TO	TIME	MINUTES	REMARKS
①	730	731	-		Gray Sdy Lime
②	731	732	}		solid sand (saturated with oil but not much gas) so not much bleed
③	732	733			
④	733	734			
⑤	734	735			
⑥	735	736			
⑦	736	737			
⑧	737	738			
⑨	738	739			
⑩	739	740	-		Black sand
					(Best Perf zone 731-736 cch)





**CONSOLIDATED**  
Oil Well Services, LLC

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

46004  
4521

TICKET NUMBER 49841  
LOCATION Chanute, KS  
FOREMAN Casey Kennedy

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

**Invoice #86177**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/21/15	3425	N. McMillen # I-7	SE 2	16	20	FR
CUSTOMER <u>Hughes Drilling</u>			TRUCK #			
MAILING ADDRESS <u>122 Main <del>Wellsville</del></u>			DRIVER			
CITY <u>Wellsville</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>666092</u>			TRUCK #			
			DRIVER			

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 819' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 805' DRILL PIPE THRU: baffle - 773' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 30'  
 DISPLACEMENT 4.47 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # Gels followed by 5 bbls fresh water, mixed & pumped 115 # Portland IA cement w/ 2% gel + 1/4 # Floeal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.47 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	15 mi	MILEAGE	107.25	
CE0711	min	ton mileage	600.00	
		trucks	2267.25	
		- 46%	1042.94	
		subtotal		1224.31
CC5840	115 sks	Portland IA	1552.50	
CC5965	293 #	Gel	87.90	
CC6075	29 #	Floeal	58.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1743.40	
		- 46%	801.96	
		subtotal		941.44
		8%		75.32
		SALES TAX		75.32
		ESTIMATED TOTAL		2241.07

AUTHORIZATION No Co Rep TITLE \_\_\_\_\_ DATE 4.15.12

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.