

HUGHES DRILLING REPORT

Well No. I-8 Size 7"
 Farm J. McMillan Foot. 26
 Circulated 12 sk cement

PERMANENT CSG.
 Size 2 7/8 gal. LVE New
 Foot. 89.70 of pipe
 Be. file at 178.10 float shoe on Bit

T. D. at Completion 820

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
20	Clay	23
9	Shale	32
22	Lime	54
7	Shale	61
11	LIME	72
7	Shale	79
20	Lime	99
49	Shale	148
23	Lime	171
62	Shale	233
22	Lime	255
18	Shale	273
6	Lime	279
27	Shale	306
12	Lime	318
22	Shale	340
20	23	Lime 363
10	Shale	373
20	23	Lime 376 396
4	Shale	400
4	Lime	404
2	Shale	406
"Herten"	6	Lime 412
11	Shale	523
4	Lime	527
33	Shale	560
4	Lime	564
4	Shale	568
4	Sand	572
8	Shale	580
10	Lime	590
7	Shale	597
6	Lime	603
8	Shale	611
11	Lime	622
10	Shale	632
3	Lime	635
6	Shale	641
7	Lime	648

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
10/21/15	0	3	Soil	① 21.5 - 21.5
26'	3	23	Clay	② 22.5 - 44.0
10/22/15	23	32	Shale	③ 44.0 - 66.5
5/98	32	54	Lime	④ 66.5 - 89.0
P.R. Bit	54	61	Shale	⑤ 89.0 - 111.5
	61	72	LIME	⑥ 111.5 - 134.0
	72	79	Shale	⑦ 134.0 - 156.5
	79	99	Lime	⑧ 156.5 - 179.0
	99	148	Shale (sdy 113-120) (sdy 133-140)	⑨ 179.0 - 201.5
	148	171	Lime	⑩ 201.5 - 224.0
	171	233	Shale (sdy 189-191)	⑪ 224.0 - 246.5
	233	255	Lime	⑫ 246.5 - 269.0
	255	273	Shale (BRK 268-273)	⑬ 269.0 - 291.5
	273	279	Lime	⑭ 291.5 - 314.0
	279	306	Shale	⑮ 314.0 - 336.5
	306	318	Lime	⑯ 336.5 - 359.0
	318	340	Shale (Lime 323-324)	⑰ 359.0 - 381.5
30'	340	363	Lime	⑱ 381.5 - 404.0
	363	373	Shale (Slate 372-373)	⑲ 404.0 - 426.5
22'	373	396	Lime	⑳ 426.5 - 449.0
	396	400	Shale (Slate 399-400)	㉑ 449.0 - 471.5
	400	404	Lime	㉒ 471.5 - 494.0
	404	406	Shale	㉓ 494.0 - 516.5
"Herten"	406	412	Lime	㉔ 516.5 - 539.0
424'	412	523	Shale (BRK 416-420)	㉕ 539.0 - 561.5
10/23/15	523	527	Lime (Sandy)	㉖ 561.5 - 584.0
	527	560	Shale	㉗ 584.0 - 606.5

Sec. 2, Twp. 16, Rng. 20

Fr. Co., Kansas

1485 FSL 2595 FEL

API # 15-059-27063

HUGHES DRILLING REPORT

Well No. J-8

SURFACE CASING

Size 7"

Farm N. Hamilton

Feet 26'

Circulated 12 sx cement

PERMANENT CSG.

Size 2 7/8 8rd EVE (new)

Feet 809.70 of pipe
Baffle at 778.10 float shoe on Bottom

T. D. at Completion 820

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
15	Shale	663
4	Lime	667
7	Shale	674
14	Oil Sand	688
28	Shale	716
1	Lime	717
6	Shale	723
1	Lime	724
8	sand	732
88	Shale	820
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	560	569	Lime	(28) 225-629.0
	569	568	Shale	(29) 225-651.5
wayside	568	572	sand (Little Blowing oil)	(30) 225-674.0
	572	580	Shale	(31) 225-696.5
	580	590	Lime	(32) 225-719.0
	590	597	Shale	(33) 225-741.5
	597	603	Lime	(34) 225-764.0
	603	611	Shale	(35) 225-786.5
	611	622	Lime	(36) 225-809.0
	622	632	Shale	
	632	635	Lime (Brown)	
	635	641	Shale (Slate 635-636)	
	641	648	Lime	
	648	663	Shale	
	663	667	Lime	
	667	674	Shale	
#1 squirrel	674	688	oil sand (remarks, pg. 3)	
	688	716	Shale	
	716	717	Lime	
	717	723	Shale	
	723	724	Lime	
#2 squirrel	724	732	sand (Remarks, pg. 4)	
	732	820	Shale	
			T.D.	

10/23/15

Set 809.70 of 2 7/8 8rd EVE (new)
Baffle at 778.10 float shoe on Bottom
used 3 centralizers

HUGHES DRILLING CO.

Pg. 3

Wellsville, Kansas 66092

Roger 913-883-2295
Darrel 913-883-4927

Ron 913-883-4855
Clay 913-883-4383

CORE TIME
LEASE N McMillen I-8
FORMATION #1 squirrel
DATE: 10/23/15

(~~chip~~ chip sample)

	FROM	FEET TO	TIME	MINUTES	REMARKS
①	674	675	3		sand very lamina w/shale (little bleed)
②	675	676			
③	676	677	-		Hard sand (bleeding)
④	677	678			} solid sand (ex. bleed)
⑤	678	679			
⑥	679	680			
⑦	680	681	-		sandy shale
⑧	681	682			} solid sand (good bleed) (A few thin streaks of shale)
⑨	682	683			
⑩	683	684			
⑪	684	685			} Limer sand (bleed)
⑫	685	686			
⑬	686	687			
⑭	687	688			} shale (A few streaks of black sand)
⑮	688	689			
⑯	689	690			
					(Best Perf zone) 677-685 CCH DRH



CONSOLIDATED
Oil Well Services, LLC

Wellsville 4526

TICKET NUMBER 49842
LOCATION Sthwa, KS
FOREMAN Casey Kennedy

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

FIELD TICKET & TREATMENT REPORT
CEMENT *Invoice #806182*

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/23/15	3425	W. McMullen # I-8	SE 2	16	20	FR
CUSTOMER <i>Hughes Drilling</i>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <i>122 Main</i>			<i>729 / Costen ✓ Safely, Meeting</i>			
CITY STATE ZIP CODE <i>Wellsville KS 66692</i>			<i>4107 / Keitar ✓</i>			
			<i>558 / Mik Han ✓</i>			

JOB TYPE *long string* HOLE SIZE *5 1/8"* HOLE DEPTH *820'* CASING SIZE & WEIGHT *2 7/8" EUE*
CASING DEPTH *810'* DRILL PIPE _____ TUBING *baffle - 778'* OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING *30'*
DISPLACEMENT *4.50 bbls* DISPLACEMENT PSI _____ MIX PSI _____ RATE *4 bpm*

REMARKS: *held safety meeting established circulation, mixed & pumped 100 # Gel followed by ~~100 # Gel~~ 5 bbls fresh water, mixed & pumped 110 # Portland IA cement w/ 2% gel & 14 # Floseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.50 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.*

AKH

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	<i>1</i>	PUMP CHARGE	<i>1500.00</i>	
CE0002	<i>15 mi</i>	MILEAGE	<i>107.25</i>	
CE0711	<i>min</i>	<i>ten mileage</i>	<i>100.00</i>	
		<i>trucks</i>	<i>2267.25</i>	
		<i>-46%</i>	<i>1042.94</i>	
		<i>Subtotal</i>		<i>1224.31</i>
<i>6714</i> CC5840	<i>110</i> sks	Portland IA	<i>1485.00</i>	
CC5965	<i>285</i> #	Gel	<i>85.50</i>	
CC6075	<i>28</i> #	Floresal	<i>56.00</i>	
CP8176	<i>1</i>	<i>2 1/2" rubber plug</i>	<i>45.00</i>	
		<i>materials</i>	<i>11671.50</i>	
		<i>-46%</i>	<i>7108.89</i>	
		<i>Subtotal</i>		<i>902.61</i>
		<i>8%</i>		<i>72.21</i>
		SALES TAX		<i>72.21</i>
		ESTIMATED TOTAL		<i>2199.13</i>

Ravin 3737

AUTHORIZATION *No Co Rep* TITLE _____ DATE *(4072.47)*

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.