

HUGHES DRILLING REPORT

Well No. 15
 Farm McMillen
 SURFACE CASING Size 7"
 Feet 31'
 Circulated 12 ex cement

PERMANENT CSG. Size 2 1/8 8' EUE (New)
 Feet 194' of pipe Baffle at 165.60
 Float shoe on Bottom

T. D. at Completion 308
 Contractor HUGHES DRILLING CO.

FEL Co., Kansas
395 FSL 2595 FEL
 API # 13-09-27060

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	3
23	Clay	26
14	Shale	40
20	LIME	60
8	Shale	68
10	LIME	78
6	Shale	84
13	LIME	97
35	Shale	132
33	LIME	165
64	Shale	229
20	LIME	249
19	Shale	268
6	LIME	274
27	Shale	301
11	LIME	312
22	Shale	334
24	LIME	358
4	Shale	362
20	LIME	382
4	Shale	386
4	LIME	390
3	Shale	393
6	LIME	399
10	Shale	409
4	LIME	413
2	Shale	415
10	LIME	425
2	Shale	427
4	LIME	431
10	Shale	441
3	LIME	444
9	Shale	453
13	Shale	466
3	LIME	469
4	Shale	473
10	LIME	483
10	Shale	493

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
10/10/15	0	3	Soil	(1) 21.5 - 21.5
3/11	3	26	Clay	(2) 22.5 - 44.0
10/14/15	26	40	Shale	(3) 22.5 - 40.0
5/18	40	63	LIME	(4) 22.5 - 63.0
PDC BIT	63	71	Shale	(5) 22.5 - 111.5
	71	81	LIME	(6) 22.5 - 131.0
	81	87	Shale	(7) 22.5 - 150.0
	87	105	LIME	(8) 22.5 - 179.0
	105	142	Shale	(9) 22.5 - 201.5
	142	175	LIME	(10) 22.5 - 229.0
	175	239	Shale (LIME 185-190)	(11) 22.5 - 246.0
	239	268	LIME	(12) 22.5 - 268.0
	268	280	Shale	(13) 22.5 - 271.0
	280	280	LIME	(14) 22.5 - 274.0
	280	312	Shale (LIME 308-310)	(15) 22.5 - 316.0
	312	326	LIME	(16) 22.5 - 339.0
	326	348	Shale (LIME 331-332)	(17) 22.5 - 381.0
3/2	348	372	LIME	(18) 22.5 - 404.0
	372	381	Shale (Shale 380-381)	(19) 22.5 - 426.0
2/4	381	409	LIME	(20) 22.5 - 439.0
	409	441	Shale (Shale 408-441)	(21) 22.5 - 471.0
	441	444	LIME	(22) 22.5 - 474.0
	444	453	Shale	(23) 22.5 - 516.0
"Acrylic"	453	466	LIME	(24) 22.5 - 539.0
	466	493	Shale (LIME 484-487, 488, 489, 493)	(25) 22.5 - 561.0
'Peru'	493	515	LIME (Shale)	(26) 22.5 - 584.0
	515	539	Shale	(27) 22.5 - 606.0

Sec. 2, Twp. 14, Rng. 20
 Fel. Co., Kansas
 345 FSL 2595 FEL
 API # 15-089-27060

HUGHES DRILLING REPORT

Well No. I-5
 Farm L. McMillen
 SURFACE CASING
 Size.....
 Feet.....
 Circulated _____ ex cement

PERMANENT CSG.
 Size 2 7/8 grad EUE (New)
 Feet 794' of pipe Baffle at 765.60
 Float shoe on Bottom

OPERATOR Hughes Drilling

T. D. at Completion 808
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
5	Lime	674
6	shale	680
15	oil sand	695
28	shale	723
1	Lime	724
3	shale	733
1	Lime	733
9	oil sand	742
66	shale	808
		T.D.

DATE	DRILLED		REMARKS -- TYPE WORK -- BILLING REF.	PIPE TALLY
	FROM	TO		
	581	572	LIME	(28) 22.5-671.5
	572	576	SHALE	(29) 22.5-671.5
01-01-16	576	580	SPUD (drilling oil)	(30) 22.5-674.0
	580	589	SHALE	(31) 22.5-676.5
	589	599	LIME	(32) 22.5-719.0
	599	619	SHALE	(33) 22.5-741.5
	619	622	LIME	(34) 22.5-764.0
	622	627	SHALE	(35) 22.5-766.5
	627	629	LIME	
	629	642	SHALE	
	642	649	LIME (oil sand)	
	649	649	shale (slate 645-646)	
	649	659	LIME	
	659	669	shale	
	669	674	Lime (bleeding oil 669-671)	
H	674	680	shale	
1 squirrel	680	695	oil sand (remarks pg 3)	
	695	723	shale	
	723	724	Lime	
	724	732	shale (lime 731.5, 732)	
	732	733	lime (gray sdy)	
2 squirrel	733	742	oil sand	
762'	742	808	shale	
1015115			T.D.	

10-15-15
 Set 794' of 2 7/8 grad EUE (New)
 Baffle at 765.60 Floatshoe on Bottom
 used 3 centralizers

HUGHES DRILLING CO.

Wellsville, Kansas 66092

Handwritten: 11/10
Pg. 3

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

CORE TIME

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

LEASE 1. Monitor 22

FORMATION #1

DATE: 10/14/17

(EDM - 207 208 211)

FROM	FEEET TO	TIME	MINUTES	REMARKS
680	681	}		sand very lamin w/shale (some bleed) 680-682
681	682			
682	683	}		solid sand (good bleed) 682-684
683	684			
684	685	-		sand slightly lamin w/shale (bleed)
685	686	}		solid sand 685-690 (good bleed)
686	687			
687	688			
688	689			
689	690	}		sand very lamin w/shale 690-695 (some bleed)
690	691			
691	692			
692	693			
693	694			
694	695	}		shale
695	696			
696	697			
697	698	}		(Best Perf Zone) 682-689 cont
698	699			

HUGHES DRILLING CO.

Pg. 4 

Wellsville, Kansas 66092

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

CORE TIME

Bon 913-883-4656
Clay 913-883-4383

LEASE NO. 100147-5

FORMATION #2 sandstone

DATE: 10/14/15

(RPM 200-300)

FROM	FEET TO	TIME	MINUTES	REMARKS
① 732	733	Gray Sdy lime		
② 733	734	Solid sand (good bleed)	733-738	
③ 734	735			
④ 735	736			
⑤ 736	737			
⑥ 737	738			
⑦ 738	739	Sand lamina w/shale (bleeding)		
⑧ 739	740	Sand very lamina w/shale (bleeding)		
⑨ 740	741			
⑩ 741	742	shale		
⑪ 742	743			
⑫ 743	744			
				(Best part zone 733-738 core)



CONSOLIDATED
Oil Well Services, LLC

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

45416
4453
Invoice #86109

TICKET NUMBER 49838

LOCATION Chanute, KS

FOREMAN Casper Kennedy

**FIELD TICKET & TREATMENT REPORT
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/15/15	3425	N. McMillan # I-5	SE 2	16	20	DG
CUSTOMER <u>Hughes Drilling</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>122 Main</u>			<u>729 / Casper</u> ✓ <u>Safety Maching</u>			
CITY STATE ZIP CODE <u>Wellsville KS 66092</u>			<u>467 / Kei Car</u> ✓			
			<u>558 / Act McD</u> ✓			

JOB TYPE lengthening HOLE SIZE 5 7/8" HOLE DEPTH 808' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 794' DRILL PIPE TUBING - baffle - 765' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 29'
 DISPLACEMENT 4.43 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety, macking, established circulation, mixed + pumped 100 # Gel followed by 5 bbls fresh water, mixed + pumped 113 sks Pozblend IA cement w/ 2% gel + 1/4 # Flaseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.43 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
CE 0450	1	PUMP CHARGE	1500.00	
CE 0002	15 mi	MILEAGE	107.25	
CE 0711	min	town mileage	100.00	
		trucks	2267.25	
		- 46%	1042.94	
		subtotal		1224.31
CC 5840	113 sks	Pozblend IA	1525.50	
CC 5965	296 #	Gel	87.00	
CC 6075	28 #	Flaseal	56.00	
CF 81710	1	2 1/2" rubber plug	45.00	
		materials	1713.50	
		- 46%	788.21	
		subtotal		925.29
		7.5%		69.39
		8%		74.00
		SALES TAX		69.39
		ESTIMATED TOTAL		2223.62

Revin 3737

AUTHORIZATION D. R. Hughes

TITLE _____

DATE (4/17/83)

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

\$ 2219.00 ✓