

HUGHES DRILLING REPORT

Well No. 22-F Size 7"
 Farm Brown Feet 35
 Circulated 16 ex cement

PERMANENT CSG.
 Size 2 7/8 Grd EUE (New)
 Feet 910.40 of pipe
 Bore at 833 to float shoe on Bottom

3330 FSL 2120 FEL
 API # 15-091-24,344

OPERATOR Hughes Drilling

T. D. at Completion 920

Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
26	Clay	29
16	Shale	45
27	Lime	72
6	Shale	78
7	Lime	85
5	Shale	90
19	Lime	109
27	Shale	136
24	Lime	160
23	Shale	183
11	Lime	194
29	Shale	223
8	Lime	231
9	Shale	240
10	Lime	250
15	Shale	265
12	Lime	277
8	Shale	285
7	Lime	292
40	Shale	333
24	Lime	357
0	Shale	363
23	Lime	386
5	Shale	391
4	Lime	395
3	Shale	398
6	Lime	404
108	Shale	572
3	Lime	580
4	Shale	584
6	Lime	590
5	Shale	595
6	Lime	601
19	Shale	615
3	Lime	618
11	Shale	629
5	Lime	634
21	Shale	655
6	Lime	661
45	Shale	707

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
8/11/14	0	3	Soil	(1) 21.5-21.5
35'	3	29	clay	(2) 22.5-44.0
8/12/14	29	45	Shale	(3) 22.5-66.5
	45	72	Lime	(4) 22.5-89.0
5 3/8 PDC	72	78	Shale	(5) 22.5-111.5
	78	85	Lime	(6) 22.5-134.0
	85	90	Shale	(7) 22.5-156.5
	90	109	Lime	(8) 22.5-179.0
	109	136	Shale (Some Red Bed 112-114)	(9) 22.5-201.5
	136	160	Lime	(10) 22.5-224.0
	160	183	Shale (Sdy 160-164)	(11) 22.5-246.5
	183	194	Lime	(12) 22.5-269.0
	194	223	Shale	(13) 22.5-291.5
	223	231	Lime	(14) 22.5-314.0
	231	240	Shale	(15) 22.5-336.5
	240	250	Lime	(16) 22.5-359.0
	250	265	Shale	(17) 22.5-381.5
	265	277	Lime	(18) 22.5-404.0
	277	285	Shale	(19) 22.5-426.5
	285	292	Lime	(20) 22.5-449.0
	292	333	Shale (Lime 322-323)	(21) 22.5-471.5
30'	333	357	Lime	(22) 22.5-494.0
	357	363	Shale (Slate 357-358)	(23) 22.5-516.5
20'	363	386	Lime	(24) 22.5-539.0
	386	391	Shale (Slate 390-391)	(25) 22.5-561.5
	391	395	Lime	(26) 22.5-584.0
	395	398	Shale	(27) 22.5-606.5

HUGHES DRILLING REPORT

Sec. 36 Co., Kansas
 3330 FSL 2120 FEL
 API # 15-091-24344

Well No. 22-I SURFACE CASING Size: 2 3/8 rd. EUE (New)
 Farm Brown Feet: _____ Size: 910.40 of pipe
 Circulated _____ ex cement Baffle at 883.70 Float shoe on Bottom
 OPERATOR Hughes Drilling T. D. at Completion 920'
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
1	Lime	710
9	shale	719
1	Lime	720
37	shale	757
3	Lime	760
	shale	835
1	Lime	836
15	shale	851
8	sand	859
2	shale	861
1	lime	862
47	shale	909
5	Red Bed	914
6	sand	920
		F.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
'Hermes'	398	404	Lime	(28) 22.5 - 629.0
	404	572	shale (BRKN 408-412) (SAY 515-532)	
	572	580	Lime	(29) 22.5 - 651.5
	580	584	shale	(30) 22.5 - 674.0
	584	590	Lime	(31) 22.5 - 696.5
	590	595	shale	(32) 22.5 - 719.0
	595	601	Lime	(33) 22.5 - 741.5
	601	615	shale	(34) 22.5 - 764.0
	615	618	LIME (Brown)	(35) 22.5 - 786.5
	618	629	shale (slate 618-619)	(36) 22.5 - 809.0
	629	634	LIME	(37) 22.5 - 831.5
	634	655	shale	(38) 22.5 - 854.0
	655	661	LIME (BRKN)	(39) 22.5 - 876.5
	661	709	shale	(40) 22.5 - 899.0
	709	710	LIME	
	710	719	shale	
	719	720	Lime	
	720	757	shale	
	757	760	Lime	
	760	835	shale (BRKN 764-768) (BRKN 774-779)	
	835	836	LIME	
	836	851	shale (some Red Bed 844-845) (Lime Break 846)	
'Bartleville'	851	859	sand	
	859	861	shale	
	861	862	Lime (soft, white)	
	862	909	shale (Lime Break 889)	
	909	914	Red Bed	
	914	920	sand (Fine grain shaley)	

T.D.
 843-14 set 910.40 of 2 3/8 rd EUE (New)
 Baffle at 883.70 Float shoe on Bottom
 used 3 centralizers

pull 5 jts 8 jts on trailer

HUGHES DRILLING CO.

Pg 3

Wellsville, Kansas 66092

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

CORE TIME
LEASE Brown #22-1
FORMATION Bartlesville
DATE: 8/12/14

Ron 913-883-4655
Clay 913-883-4303

(BEST chip sample)

	FROM	FEET TO	TIME	MINUTES	REMARKS
①	851	852	-		soft sandy lime (exc bleed)
②	852	853			} solid sand (exc bleed) 852-857
③	853	854			
④	854	855			
⑤	855	856			
⑥	856	857			
⑦	857	858	}		sand very lamin, w/shale (little bleed)
⑧	858	859	}		
⑨	859	860	}		shale
⑩	860	861	}		
	861	862	-		soft white lime
	862	863	-		shale
					(Best Perf Zone)
					851-857
					CC4



CONSOLIDATED
Oil Well Services, LLC

270444

TICKET NUMBER 48055

LOCATION Chaua, KS

FOREMAN Casey Kennedy

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			
8/13/14	3425	Brown # 22 I	SE 36	14	21	JO			
CUSTOMER <u>Hughes Drilling</u>		TRUCK #		DRIVER		TRUCK #		DRIVER	
MAILING ADDRESS <u>122 Main</u>		729		Cosken		✓ Safety/Marting			
CITY <u>Wellsville</u>		6666		Kei Car		✓			
STATE <u>KS</u>		558		BroBic		✓			
ZIP CODE <u>66092</u>									

JOB TYPE <u>Logging</u>	HOLE SIZE <u>5 7/8"</u>	HOLE DEPTH <u>920'</u>	CASING SIZE & WEIGHT <u>2 7/8" EUE</u>
CASING DEPTH <u>910'</u>	DRILL PIPE	TUBING <u>baffle - 28.3'</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>27'</u>
DISPLACEMENT <u>5.1126</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>5 bpm</u>

REMARKS: held safety, waiting, established circulation, mixed & pumped 200# Gal followed by 10 bbls fresh water, mixed & pumped 125 lbs 5% Pozmix cement w/ 2% gel & 1/4 # Floreal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.11 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
5401	1	PUMP CHARGE		1085.00 ✓
5406	30 mi	MILEAGE		126.00 ✓
5402	910'	casing footage		— ✓
5407	minimum	ton mileage		368.00 ✓
5408	0			
1124	125 lbs	5% Pozmix cement	1437.50	✓
118B	410 #	Premium Gel	90.20	✓
1107	31 #	Floreal	76.57	✓
		materials	1604.27	
		-30%	481.28	✓
		Subtotal		1122.99 ✓
4402	1	2 1/2" rubber plug		29.50 ✓
			3333.26	
			7.375%	
		SALES TAX		85.01 ✓
		ESTIMATED TOTAL		2816.50 ✓

Revin 3737

AUTHORIZATION Paul K Hughes TITLE _____ DATE _____

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.