

# HUGHES DRILLING REPORT

J0 Co., Kansas  
1815 FSL 290 FEL

Well No. 1  
Farm H.F.  
SURFACE CASING  
Size 70  
Feet 29  
Circulated 10 sx cement

PERMANENT CSG.  
Size  
Feet  
T. D. at Completion 911  
Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

API # 15-091-24991  
S. 36 T. 14 S. R. 21 E

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
26	Clay	28
28	Lime	56
8	Shale	64
9	Lime	73
5	Shale	78
21	Lime	99
20	Shale	119
25	Lime	144
26	Shale	170
11	Lime	181
20	Shale	201
13	Lime	214
11	Shale	225
10	Lime	235
18	Shale	253
8	Lime	261
6	Shale	267
6	Lime	273
42	Shale	315
30'	25 Lime	340
7	Shale	347
20'	24 Lime	371
4	Shale	375
3	Lime	378
4	Shale	382
"H"	6 Lime	388
169	Shale	557
5	Lime	562
4	Shale	566
3	Lime	569
4	Shale	573
7	Lime	582
17	Shale	599
3	Lime	602
10	Shale	612
7	Lime	619
5	Shale	624
17	Red Bed	641
1	Lime	642
3	Shale	645

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
4-24-78	0	2	soil	(1) 21.5-21.5
29'	2	28	clay	(2) 22.5-49.0
5-7-78	28	56	lime	(3) 22.5-66.5
5/8	56	64	Shale (slate 59-60)	(4) 22.5-89.0
PVC - HB bit	64	73	lime	(5) 22.5-116.5
	73	78	Shale	(6) 22.5-134.0
	78	99	lime	(7) 22.5-156.5
	99	119	shale	(8) 22.5-179.0
	119	144	lime	(9) 22.5-201.5
	144	170	shale	(10) 22.5-224.0
	170	181	lime	(11) 22.5-246.5
	181	201	shale	(12) 22.5-269.0
	201	214	lime	(13) 22.5-291.5
	214	225	shale	(14) 22.5-314.0
	225	235	lime	(15) 22.5-336.5
	235	253	shale	(16) 22.5-359.0
	253	261	lime	(17) 22.5-381.5
	261	267	shale	(18) 22.5-404.0
	267	273	lime	(19) 22.5-426.5
	273	315	shale (limebreak 304-306)	(20) 22.5-449.0
30'	315	340	lime	(21) 22.5-471.5
	340	347	shale (slate 342-343)	(22) 22.5-494.0
20'	347	371	lime	(23) 22.5-516.5
	371	375	shale (slate 371-372)	(24) 22.5-539.0
	375	378	lime	(25) 22.5-561.5
	378	382	shale	(26) 22.5-584.0
"Heath"	382	388	lime	(27) 22.5-606.5

T.D. 500  
K.D. 201  
JTS on  
pulled  
Trailer  
JTS

# HUGHES DRILLING REPORT

Jo Co., Kansas 1424

1815 FSL 290 FEL

API # 15-091-24491

SURFACE CASING PERMANENT CSG.  
 Well No. 1 Size \_\_\_\_\_ Size \_\_\_\_\_  
 Farm H.F. Feet \_\_\_\_\_ Feet \_\_\_\_\_  
 Circulated \_\_\_\_\_ sx cement

T. D. at Completion 911  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	lime	647
57	shale	644
1	lime	695
10	shale	705
9	lime	706
9	shale	715
#2 squirrel 1	Br. sand	716
28	shale	744
2	lime	746
89	shale	835
10	oil sand	845
2	shale	847
6	oil sand	853
2	shale	855
22	slate	877
18	shale	895
2	lime	897
11	shale	908
3	lime	911
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
5/3/10	388	557	Shale	(28) 22.5-629.0
5/8/10	557	562	lime	(29) 22.5-651.5
	562	566	shale	(30) 22.5-674.0
	566	569	lime	(31) 22.5-696.5
	569	578	shale	(32) 22.5-719.0
	578	582	lime	(33) 22.5-741.5
	582	599	shale	(34) 22.5-764.0
	599	602	lime (brown)	(35) 22.5-786.5
	602	612	shale (slate 602-603)	(36) 22.5-809.0
	612	619	lime (broken)	(37) 22.5-831.5
	619	624	shale	(38) 22.5-854.0
	624	641	red bed	(39) 22.5-876.5
	641	642	lime	(40) 22.5-899.0
	642	645	shale	
	645	647	lime	
	647	649	shale	
	649	695	lime	
	695	705	shale	
	705	706	lime	
	706	715	shale	
#2 squirrel	715	716	Brown sand (no odor)	
	716	744	shale	
	744	746	lime	
	746	835	shale (broken 750-752) (Red Bed 824-828)	
Barkesville	835	845	oil sand (Remarks pg. 4)	
	845	847	shale	
Lower Bartlesville	847	853	oil sand (remarks pg. 4)	



# HUGHES DRILLING REPORT

20 Co., Kansas V9.4  
 1815 FSL 290 FEL  
 API # 15-091-24491

Well No. #1 SURFACE CASING PERMANENT CSG.  
 Farm H.F. Size..... Size.....  
 Feet..... Feet.....  
 Circulated \_\_\_\_\_ sx cement

OPERATOR Hughes Drilling T. D. at Completion .....  
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
5/8/18			Bartlesville (chip sample)	
	835	836	Hard sand (some bleed)	
	836	837	Sand slightly lamin. w/shale (bleed)	
	837	838	} solid sand (good bleed)	
	838	839		
	839	840		
	840	841		
	841	842	} solid sand (bleed)	
	842	843		(Harder than above)
	843	844	} sand very lamin. w/shale (little bleed)	
	844	845		
	845	846	} shale	
	846	847		
	847	848	- sand very lamin. w/shale (bleed)	(Heavier oil than above)
	848	849	} sand lamin. w/shale & a little white sand (Good bleed)	maybe
	849	850		
	850	851	} sand very lamin. w/shale (bleed)	
	851	852		
	852	853	} shale	
	853	854		
	854	855	} slate	
	855	856		
	856	857	} shale	
	857	858		
	858	859		

Best Perf zone  
 836 - 843  
 & 847 - 850



PRESSURE PUMPING LLC  
PO Box 864, Chanute, KS 66720  
620-431-9210 or 800-467-8676

3M-10734  
PO-16694  
FT-10628

TICKET NUMBER 54011  
LOCATION Chanute, KS  
FOREMAN Carey Kennedy

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 813226

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/19/18	3425	HF # 1	SE 36	14	21	JO
CUSTOMER Hughes Drilling			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 122 Main			729	Caskey	Safety Meeting	
CITY Wellsville			495	HarBac		
STATE KS			548	Alamad		
ZIP CODE 666092						

JOB TYPE logstring HOLE SIZE 5 5/8" HOLE DEPTH 911' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 896' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING \_\_\_\_\_  
 DISPLACEMENT 5.19 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # Gel followed by 5 bbls fresh water, mixed & pumped 119 sks Portland IA cement w/ 2% gel + 1/4 # Floreal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing top w/ 5.19 bbls fresh water, pressured to 800 PSI, released pressure to set float valve.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0050	1	PUMP CHARGE	1500.00	
CE0002	30 mi	MILEAGE	214.50	
CE0711	min	ton mileage	1600.00	
		trucks	2374.50	
		- 35%	831.08	
		subtotal		1543.42
CC5840	119 sks	Portland IA cement	1606.50	
CC5965	300 #	Gel	90.00	
CC6075	30 #	Floreal	60.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1801.50	
		- 35%	630.53	
		subtotal		1170.97
		7.975%	SALES TAX	93.38
			ESTIMATED TOTAL	2807.77

Rev'n 5737

AUTHORIZATION Carey Kennedy TITLE \_\_\_\_\_ DATE (4/31/18)

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.