

HUGHES DRILLING REPORT

Fr. Co., Kansas
1700 FSL 3020 FEL

Well No. J-4
Farm W. Brocks

SURFACE CASING
Size 6 1/4
Feet 29.15
Circulated 10 sx cement

PERMANENT CSG.
Size 2 7/8 8' EUE (11' EUE)
Feet 714.75 of pipe float shoe on Bottom

API # 15099-27156
Sec 2 TWP 16 R 20

OPERATOR Hughes Drilling

T. D. at Completion 740
Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
22	clay	24
4	shale	28
24	lime	52
7	shale	59
10	lime	69
6	shale	75
24	lime	99
53	shale	152
1	lime	153
8	shale	161
16	lime	177
55	shale	232
26	lime	258
9	shale	267
8	lime	275
28	shale	303
11	lime	314
22	shale	336
30' 24	lime	360
8	shale	368
20' 23	lime	391
4	shale	395
3	lime	398
3	shale	401
6	lime	407
113	shale	520
3	sand	523
52	shale	575
10	lime	585
8	shale	593
5	lime	598
7	shale	605
9	lime	614
11	shale	625
4	lime	629
6	shale	635
12	lime	647
7	shale	654
1	lime	655
3	shale	658

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/29/17	0	2	soil	(1) 21.5 - 21.5
24'	2	24	clay	(2) 21.5 - 44.0
7/25/17	24	28	shale	(3) 22.5 - 66.5
5 7/8 PDC	28	52	lime	(4) 22.5 - 89.0
	52	59	shale	(5) 22.5 - 111.5
	59	69	lime	(6) 22.5 - 134.0
	69	75	shale	(7) 22.5 - 156.5
	75	99	lime	(8) 22.5 - 179.0
	99	152	shale	(9) 21.5 - 201.5
	152	153	lime	(10) 22.5 - 224.0
	153	161	shale	(11) 22.5 - 246.5
	161	177	lime	(12) 22.5 - 269.0
	177	232	shale	(13) 22.5 - 291.5
	232	258	lime	(14) 22.5 - 314.0
	258	267	shale (Broken 269-277)	(15) 22.5 - 336.5
	267	275	lime	(16) 22.5 - 359.0
	275	303	shale	(17) 22.5 - 381.5
	303	314	lime	(18) 22.5 - 404.0
	314	336	shale (lime 319-320)	(19) 22.5 - 426.5
30'	336	360	lime	(20) 22.5 - 449.0
	360	368	shale (stone 367-368)	(21) 22.5 - 471.5
20'	368	391	lime	(22) 22.5 - 494.0
	391	395	shale (stone 391-392)	(23) 22.5 - 516.5
	395	398	lime	(24) 22.5 - 539.0
	398	401	shale	(25) 22.5 - 561.5
"Hertel"	401	407	lime	(26) 22.5 - 584.0
	407	520	shale (Broken 411-414)	(27) 22.5 - 606.5

