

HUGHES DRILLING REPORT

Fr. Co., Kansas
865 FSL 3070 FEL

Well No. I-2
Farm W. Broers
Size 6 1/4
Feet 31
Circulated 12 sx cement

PERMANENT CSG.
Size 2 3/8 81d FIVE LINE
Feet 783.15 of pipe float shale on bottom

API # 15-059-27154
Sec 2 TWP 16 R 20

OPERATOR Hughes Drilling

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

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
28	clay	30
9	shale	39
24	lime	63
6	shale	69
11	lime	80
8	shale	88
18	lime	106
46	shale	152
28	lime	180
17	shale	197
2	sand	199
40	shale	239
33	lime	262
18	shale	280
6	lime	286
29	shale	315
12	lime	327
21	shale	348
30'	24 lime	372
	9 shale	381
20'	24 lime	405
	4 shale	409
	4 lime	413
	2 shale	415
"Horton"	6 lime	421
	11 shale	532
	3 sand	535
	35 shale	570
	4 lime	574
	16 shale	590
	10 lime	600
	10 shale	610
	3 lime	613
	9 shale	622
	9 lime	631
	12 shale	643
	2 lime	645
	8 shale	653
	8 lime	661
	12 shale	673

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/13/17	0	2	soil	① 21.5- 21.5
31	2	30	clay	② 22.5- 44.0
7/14/17	30	39	shale	③ 22.5- 66.5
5 1/8 PDC	39	63	lime	④ 22.5- 89.0
	63	69	shale (slate 68-69)	⑤ 22.5- 111.5
	69	80	lime	⑥ 22.5- 134.0
	80	88	shale	⑦ 22.5- 156.5
	88	106	lime	⑧ 22.5- 179.0
	106	152	shale	⑨ 22.5- 201.5
	152	180	lime	⑩ 22.5- 224.0
	180	197	shale	⑪ 22.5- 246.5
	197	199	sand	⑫ 22.5- 269.0
	199	239	shale	⑬ 22.5- 291.5
	239	262	lime	⑭ 22.5- 314.0
	262	280	shale	⑮ 22.5- 336.5
	280	286	lime	⑯ 22.5- 359.0
	286	315	shale (Broken 305-307)	⑰ 22.5- 381.5
	315	327	lime	⑱ 22.5- 404.0
	327	348	shale (lime break 331-332)	⑲ 22.5- 426.5
30'	348	372	lime	⑳ 22.5- 449.0
	372	381	shale (slate 372-373)	㉑ 22.5- 471.5
20'	381	405	lime	㉒ 22.5- 494.0
	405	409	shale (slate 405-406)	㉓ 22.5- 516.5
	409	413	lime	㉔ 22.5- 539.0
	413	415	shale	㉕ 22.5- 561.5
"Horton"	415	421	lime	㉖ 22.5- 584.0
	421	532	shale (Broken 424-427)	㉗ 22.5- 606.5

HUGHES DRILLING REPORT

Fr Co., Kansas
865 FSL 3070 FEL

Well No. #T-2
Farm W. Brooks
SURFACE CASING Size
PERMANENT CSG Size
Feet
Circulated _____ sx cement

API # 15-059-27154
Sec 2 TWP 16 R 20

OPERATOR _____
T. D. at Completion 793
Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Lime	625
6	Shale	681
1	Lime	682
2	Shale	684
#1 sq 16	sand	700
24	Shale	724
1	Lime	725
8	Shale	733
#2 sq 1	sand	744
33	Shale	787
1	Lime	788
5	Shale	792
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	532	535	sand	(28) 22.5 - 629.0
53	535	570	shale	(29) 22.5 - 651.5
7-17-17	570	574	Lime (Broken)	(30) 22.5 - 674.0
	574	590	Shale (sdy 579-581)	(31) 22.5 - 696.5
	590	600	Lime	(32) 22.5 - 719.0
	600	610	shale	(33) 22.5 - 741.5
	610	613	Lime	(34) 22.5 - 764.0
	613	6	Shale	(35) 22.5 - 786.5
	622	631	Lime	
	631	643	Shale	
	643	645	Lime (Brown)	
	645	653	Shale (slate 645-646)	
	653	661	Lime	
	661	673	Shale	
	673	675	Lime	
	675	681	Shale	
	681	682	Lime	
std	682	684	Shale	
Squirrel	684	700	sand (remarks pg 3)	
	700	724	Shale	
	724	725	Lime	
	725	733	shale	
sq	733	744	sand (remarks pg 4)	
	744	787	Shale	
	787	788	Lime	
	788	793	Shale	
			T.D.	

7-17-17 set 783.15 of 2 7/8 80d EVE New
used 3 centralizers Flant shoe on latter



QES PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

Soche 5501

TICKET NUMBER 53814
 LOCATION Oklahoma KS
 FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
 CEMENT **Invoice # 810771**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-17-17	3425	N. Broers # I-2	SW 2	16	20	FR
CUSTOMER <u>Hughes Drilling Co.</u>			TRUCK #			
MAILING ADDRESS <u>122 Main St</u>			DRIVER			
CITY <u>Wellsville</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>66092</u>			TRUCK #			
			DRIVER			
JOB TYPE <u>long string</u>			HOLE SIZE <u>5 9/8</u>			
CASING DEPTH <u>783</u>			HOLE DEPTH <u>793</u>			
SLURRY WEIGHT			CASING SIZE & WEIGHT <u>2 7/8 EUE</u>			
SLURRY VOL			OTHER			
WATER gal/sk			CEMENT LEFT in CASING <u>2 1/2" Plug</u>			
DISPLACEMENT <u>4.55 BBL</u>			RATE <u>4 BPM</u>			
REMARKS: <u>Hold Safety Meeting. Establish Circulation Mix + Pump</u> <u>100 # Gel Flush. Mix + Pump 5ks Per Blend 1 A</u> <u>Cement 270 gal 1/4" Fla Seal /sk. Cement to Surface.</u> <u>Flush pump + lines clean. Displace 2 1/2" Rubber Plug</u> <u>to casing TD. Pressure to 500# PSI. Hold + Monitor</u> <u>pressure for 30 min MIT. Release pressure to set</u> <u>Float Valve Shut in casing.</u>						
Customer Supplied Water			Fred Maden			

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467 1500 ⁰⁰	
CE0002	15 mi	MILEAGE	467 1072 ⁵⁰	
CE0711	Minimum	Ten Miles Delivery	804 660 ⁰⁰	
		Sub Total	2267 ²⁵	
		less 55%		1020 ²⁶
13228 CE5846	1045ks	Per Blend 1A Cement	1404 ⁰⁰	
CC5865	275 [#]	Bentonite Gel	82 ⁵⁰	
CC6075	26 [#]	Celloflake	52 ⁰⁰	
CP5176	1	2 1/2" Rubber Plug	45 ⁰⁰	
		Sub Total	1583 ⁵⁰	
		less 55%		712 ⁵⁸
		SALES TAX		57 ⁰¹
		ESTIMATED TOTAL		1789 ⁸⁵

Revin 3737 AUTHORIZATION _____ TITLE _____ DATE 8/3/17

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.