

HUGHES DRILLING REPORT

Well No. I-1
 Farm W. Broers
 SURFACE CASING Size 6 1/4
 Feet 27

PERMANENT CSG.
 Size 2 3/8 8rd Eye New
 Feet 765.75 of pipe float shoe on Bottom

Circulated 12 ex cement

T. D. at Completion 775

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/10/17	0	2	Soil	① 21.5 - 21.5
27	2	24	clay	② 22.5 - 44.0
7/11/17	24	35	Shale	③ 22.5 - 66.5
5/18 PDC	35	59	LIME	④ 22.5 - 89.0
	59	66	Shale (slate 59-60)	⑤ 22.5 - 111.5
	66	76	LIME	⑥ 22.5 - 134.0
	76	81	Shale	⑦ 22.5 - 156.5
	81	101	Lime	⑧ 22.5 - 179.0
	101	140	Shale	⑨ 22.5 - 201.5
	140	172	Lime	⑩ 22.5 - 224.0
	172	187	Shale	⑪ 22.5 - 246.5
	187	190	sand	⑫ 22.5 - 269.0
	190	234	Shale	⑬ 22.5 - 291.5
	234	255	Lime	⑭ 22.5 - 314.0
	255	274	Shale	⑮ 22.5 - 336.5
	274	279	Lime	⑯ 22.5 - 359.0
	279	309	Shale	⑰ 22.5 - 381.5
	309	322	Lime	⑱ 22.5 - 404.0
	322	343	Shale (Lime 326-327)	⑲ 22.5 - 426.5
30'	343	367	Lime	⑳ 22.5 - 449.0
	367	375	Shale (slate 367-368)	㉑ 22.5 - 471.5
20'	375	399	Lime	㉒ 22.5 - 494.0
	399	403	Shale (slate 399-400)	㉓ 22.5 - 516.5
	403	407	Lime	㉔ 22.5 - 539.0
	407	410	Shale	㉕ 22.5 - 561.5
"Horton"	410	415	Lime	㉖ 22.5 - 584.0
	415	526	Shale (Broken 414-422)	㉗ 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
22	clay	24
11	Shale	35
25	Lime	59
7	Shale	66
10	Lime	76
5	Shale	81
20	Lime	101
39	Shale	140
32	Lime	172
15	Shale	187
3	sand	190
44	Shale	234
21	Lime	255
19	Shale	274
5	Lime	279
30	Shale	309
13	Lime	322
21	Shale	343
30'	29	Lime 367
	8'	Shale 375
20	29	Lime 399
	4'	Shale 403
	4'	Lime 407
	3'	Shale 410
"Horton"	5'	Lime 415
	11'	Shale 526
	2'	sand 528
	35'	Shale 563
	3'	Lime 566
	16'	Shale 582
	10'	Lime 592
	9'	Shale 601
	6'	Lime 607
	6'	Shale 613
	8'	Lime 621
	13'	Shale 634
	3'	Lime 637
	6'	Shale 643
	8'	LIME 651

HUGHES DRILLING CO.

Wellsville, Kansas 66092

Pg. 4

Roger 913-889-2235
Darrel 913-889-4027

Box 913-889-4666
Clay 913-889-4989

LEASE W. Broers #1-1
FORMATION #2 Squirrel
DATE: 7-12-17

3" PDL

FROM	FEEET TO	TIME	MINUTES	REMARKS
723	724	chip	-	3 } Brown sand (rainbow)
724	725	chip	-	
725	726	chip	-	3 } solid sand 725-727
① 726	727	2:06:00~2:07:00	1:00	3 } good bleeding
② 727	728	2:08:00	1:00	} sand very lamin, w/ shale bleeding (shows some water) in spots
③ 728	729	2:09:00	1:00	
④ 729	730	2:10:00	1:00	
⑤ 730	731	2:11:00	1:00	} scattered strips of sand shale bleeding
⑥ 731	732	2:12:00	1:00	
⑦ 732	733	2:13:15	1:15	
⑧ 733	734	2:15:30	2:15	
⑨ 734	735	STOP		
⑩ 735	736			
⑪ 736	737			
⑫ 737	738			} (Best Perf Zone 725-730 CCH
⑬ 738	739			
⑭ 739	740			
⑮ 740	741			
⑯ 741	742			
⑰ 742	743			
⑱ 743	744			
⑲ 744	745			
⑳ 745	746			



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8678

8563
 8458

TICKET NUMBER 53813

LOCATION Ottawa KS

FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 810723

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-13-17	3425	N. Broers # 2-1	SW 2	16	20.	FR
CUSTOMER Hughes Drilling			TRUCK #			
MAILING ADDRESS 122 Main St.			DRIVER		TRUCK #	
CITY Wellsville		STATE KS	ZIP CODE 66092		DRIVER	
			712 - Fred Mader			
			795 - Dave Be			
			804 - Mike Naa			

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 775 CASING SIZE & WEIGHT 2 7/16 GUS
 CASING DEPTH 765 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 2 1/2" Plug
 DISPLACEMENT 4.950 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting - Establish circulation. Mix Pump
100 # Gel Flush. Mix & Pump 101 SKS Poz Blend 1A Cement
2% Gel 1/4" Flo Seal/SK. Cement to Surface. Flush
pump & lines clean. Displace 2 1/2" Rubber plug to casing
TD. Pressure to 800 # PSI. Monitor pressure for 30 min
MIT. Release pressure to set float valve. Shut in
Casing.

Customer Supplied Water.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	15 mi	MILEAGE	495	10725
CE0711	Minimum	Ten Miles Delivery	804	660.00
		Sub Total		22672.50
		Less 55%		10202.63
CC6075	25 #	Cello Flake	50.00	1250.00
CC5840	101 SKS	Poz Blend 1A Cement	1363.50	137715.00
CC5965	270 #	Bentonite Gel	81.00	21870.00
CP8176	1	2 1/2" Rubber Plug	45.00	45.00
		Sub Total		15395.00
		Less 55%		6927.25
		SALES TAX	6%	55.43
		ESTIMATED TOTAL		17681.68

Ravin 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.