

HUGHES DRILLING REPORT

Well No. #10
 Farm W. Bros. Feet. 2350
 Circulated 9 ex cement

PERMANENT CSG.
 Size 2 7/8 Bad Eye
 Feet. 730.70 of pipe
 Baffle at 699.05 float shoe on Bottom

T. D. at Completion 740'
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	soil	3
13	clay	21
3	shale	29
25	lime	54
7	shale	61
10	lime	71
6	shale	77
32	lime	109
4	shale	113
16	lime	129
2	shale	131
4	gr. sand	135
29	lime	164
60	shale	224
26	lime	250
13	shale	263
6	lime	269
27	shale	296
13	lime	309
3	shale	312
1	lime	313
16	shale	329
30	25 lime	354
8	shale	362
20	22 lime	384
3	shale	387
4	lime	391
4	shale	395
6	lime	401
112	shale	513
4	sand	517
32	shale	549
5	lime	554
14	shale	568
9	lime	577
20	shale	597
10	lime	607
12	shale	619
3	lime	622
6	shale	628
9	lime	637

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
8-28-14	0	3	soil	21.5
23'	3	21	clay	22.5-44.0
8-29-14	21	29	shale	22.5-66.5
5/2	29	54	lime	22.5-89.0
PDL	54	61	Shale (slate 54-55)	22.5-111.5
	61	71	lime	22.5-134.0
	71	77	shale	22.5-156.5
	77	109	lime	22.5-179.0
	109	113	shale (slate 109-110)	22.5-201.5
	113	129	lime (sandy)	22.5-224.0
	129	131	shale	22.5-246.5
	131	135	Gray sand	22.5-269.0
	135	164	lime	22.5-291.5
	164	224	shale	22.5-314.0
	224	250	lime	22.5-336.5
	250	263	shale (sdy 254-262)	22.5-359.0
	263	269	lime	22.5-381.5
	269	296	shale	22.5-404.0
	296	309	lime	22.5-426.5
	309	312	shale	22.5-449.0
	312	313	lime	22.5-471.5
	313	329	shale	22.5-494.0
30'	329	354	lime	22.5-516.5
	354	362	shale (slate 354-355)	22.5-539.0
20'	362	384	lime	22.5-561.5
	384	387	shale (slate 384-385)	22.5-584.0
	387	391	lime	22.5-606.5

31 Jts on Hailer
 Puled 4 Jts

Well No. #10

Farm W. Beers

SURFACE CASING

Size

Feet

Circulated _____ ex cement

PERMANENT CSG. Size 2 7/8 Bnd. EVE (New)

Set 730.70 of pipe Baffle at 699.05 float shoe on Bottom

T. D. at Completion 740'

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	391	395	Shale	28 22.5 - 629.0
'Hutch'	395	401	Lime	29 22.5 - 651.5
	401	513	Shale (BRK'd 406-408)	30 22.5 - 674.0
403'	513	517	Broken sand (bleeding 515-517)	31 22.5 - 696.5
9-2-14	517	549	Shale	32 22.5 - 719.0
	549	584	Lime (BRK'd)	
	584	568	Shale (BRK'd 558-560)	
	568	577	Lime	
	577	597	Shale	
	597	607	Lime	
	607	619	Shale	
	619	622	Lime (Brown)	
	622	628	Shale (Slate 622-621)	
	628	637	Lime	
	637	650	Shale (Lime Break 638)	
	650	654	Lime	
	654	659	Shale	
	659	666	Lt. Brown sand	
	666	669	Shale	
#1 squirrel	669	675	oil sand	
	675	702	Shale	
	702	703	Lime	
	703	710	Shale	
	710	711	Lime	
#2 squirrel	711	719	sand (No oil)	
	719	740	shale	
			T.D.	

9-4-14 Set 730.70 of 2 7/8 Bnd EVE (New) Baffle at 699.05 float shoe on Bottom used 3 centralizers

STRATA THICKNESS	FORMATION DRILLED	T.D.
13	Shale	650
4	lime	694
5	Shale	659
7	lt. BR. sand	666
3	shale	669
6	oil sand	675
27	Shale	702
1	lime	703
7	Shale	710
1	lime	711
8	sand	719
21	Shale	740
		T.D.

start core

T.D. 663

K.D. 11.5

T.D. 740

19 lbs on bit

pulled 5T+0



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

270845

TICKET NUMBER 48155
LOCATION Ottawa KS
FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-9-14	3425	W Broers #10	sw 2	15	20	FR
CUSTOMER Hughes Drilling			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 122 N. Main			712 Fre Mad			
CITY STATE ZIP CODE Wellsville KS 66092			495 Cas Ken			
			503 Tro Har			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 740 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 730.7 DRILL PIPE Baffle m TUBING @ 699.05 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31' + Plug
DISPLACEMENT 4.06 BB DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish circulation. Mix & Pump 100# Gel flush. Mix & Pump 106 sks 50/50 Poz Mix Cement 2% Gel 1/4" Flo Seal/sk. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to baffle in casing. Pressure to 800# PSI. Release pressure to set float valve. Shut in casing.

Customer Supplied H₂O

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 ⁰⁰
5406	15 mi.	MILEAGE	495	63 ⁰⁰
5402	730.7	Casing footage		N/C
5407	Minimum	Ton Miles	503	368 ⁰⁰
1124	106 sks	50/50 Poz Mix Cement	1219 ⁰⁰	✓
1158	278 [#]	Premium Gel	61 ¹⁶	✓
1107	27 [#]	Flo Seal	66 ⁶⁹	✓
		Material	1346 ⁸⁵	
		Less 30%	-404 ⁰⁰	✓
		Total		942 ⁷⁹
4402	1	2 1/2" Rubber Plug		2950 ✓
			1997.64	
			7.65%	SALES TAX
				ESTIMATED TOTAL
				74 ³⁸
				2562 ⁶⁷ ✓

completed

AUTHORIZATION Dan R. 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.

HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

CORE TIME

Ron 913-883-4655
Clay 913-883-4383

LEASE W. Broers #10

FORMATION #1 squirrel

DATE: 9-2-14

3" Show Bit

	FROM FEET	TO FEET	TIME	MINUTES	REMARKS	
	659	660	chip		659-664 LT Br Sand (No show) very lamin w/shale	
	660	661	chip			
	661	662	chip			
	662	663	12:43.00	12:43.45	.45	
1	663	664				
2	664	665	12:44.30		.45	solid LT Br Sand (little bleed)
3	665	666	12:45.15		.45	
4	666	667	12:46.00		.45	sdy shale (oil show 667-668)
5	667	668	12:46.45		.45	
6	668	669	12:47.30		.45	
7	669	670	12:48.00		.30	Solid Sand 669-673 (exc. bleed)
8	670	671	12:48.45		.45	
9	671	672	12:49.30		.45	
10	672	673	12:50.00		.30	sand slightly lamin, w/shale (fine grained sand) (good bleed)
11	673	674	12:50.45		.45	
12	674	675	12:51.30		.45	(674.5-675 shale)
13	675	676	12:52.15		.45	
14	676	677	12:53.00		.45	shale cch
15	677	678	12:53.45		.45	
16	678	679	12:54.30		.45	
17	679	680	12:55.30		1.00	
18	680	681	12:56.30		1.00	Stop
19	681	682				
20	682	683				

(Best Perf Zone)
669-674.5