



ORIGINAL

Operator Name Louis Dreyfus Natural Gas Corp.

Lease Name HCU Well # 720-C

Sec. 7 Twp. 22S Rge. 40  
 East  
 West

County Hamilton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  Log Formation (Top), Depth and Datum  Sample  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No Name Top Datum

Cores Taken  Yes  No See attached Driller's Log

Electric Log Run  Yes  No  
(Submit Copy.)

List All E. Logs Run:

Scintillation Gamma Ray

CASING RECORD

New  Used

Report all strings set-conductor, surface, intermediate, production etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	323'	35/65 Poz	50	6% Gel, 2% cc & 1/4# flocele
					Cl "C"	125	2%cc + 1/4# flocele
Production	7-7/8"	4-1/2"	10.5#	2898'	Cl "C"	350	3% D79+1/4 pps D29
						200	2%S1 + 1/4 pps D29

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Materials Used)	
2 spf	2708-2726'	Frac w/ 1000 gal 50Q 15% HCl acid + 16000 gal 65Q WF 130 + 16000# 12/20 Brady sand + 16000# 12/20 resin coated sand	2708-2726'

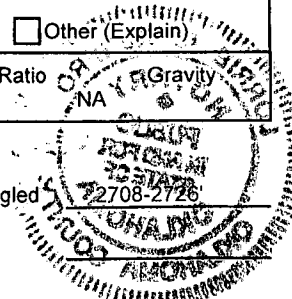
TUBING RECORD Size 2-3/8" Set At 2782' Packer At NA Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 9/8/00 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil NA Bbls Gas 699 Mcf Water 54 Bbls. Gas-Oil Ratio NA Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)



DRILLER'S LOG

SEP 25 2000

LOUIS DREYFUS NATURAL GAS CORP  
HCU 720 C  
SECTION 7-T22S-R40W  
HAMILTON COUNTY, KANSAS

CONSERVATION DIVISION  
Wichita, Kansas

COMMENCED: 08-18-00

COMPLETED: 08-20-00

SURFACE CASING: 323' OF 8 5/8" CMTD  
W/50 SKS 35:65 POZ + 2% CC + 1/4#/SK  
FLOCELE. TAILED IN W/125 SKS CLASS C  
+ 2% CC + 1/4#/SK FLOCELE.

FORMATION

DEPTH

FORMATION	DEPTH
SURFACE HOLE	0 -- 323
SANDSTONE	323 - 800
RED BED	800 - 1673
GLORIETTA	1673 - 1766
RED BED	1766 - 2535
LIMESTONE & SHALE	2535 - 2903 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

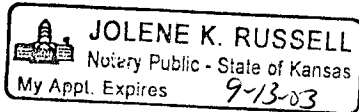
CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 21ST DAY OF AUGUST, 2000.

JOLENE K. RUSSELL

  
NOTARY PUBLIC

# Cementing Service Report

# ORIGINAL

Customer	CHEYENNE DRILLING	Job Number	20171790
----------	-------------------	------------	----------

Well		Location (legal)		Dowell Location		Job Start	
HCU 720-C		NW NW 7-22S-40W		Ulysses, KS		8/18/00	
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD
BRADSHAW				0	0 in	323 ft	323 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient
HAMILTON		KS		0 psi	0°F	0°F	0 psi/ft
Rig Name		Drilled For	Service Via		Casing/Liner		
CHEYENNE 8		Gas	Land		Depth, ft	Size, in	Weight, lb/ft
Offshore Zone		Well Class	Well Type		327	8.63	24
		New	Development		0	0	0
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe		
Bentonite		9.3 lb/gal	10 cp		Depth,	Size, in	Weight, lb/ft
Service Line		Job Type		0	0	0	Grade
Cementing		Cem Surface Casing		0	0	0	Thread
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure	Wellhead Connection		Perforations/Open Hole		
500 psi		0 psi	8 5/8 head & manifo		Top, ft	Bottom, ft	spf
Service Instructions				0	0	0	No. of Shots
5/8" surface @ approx 325' in 12 1/4" hole				0	0	0	Total Interval
50 sk lead @ 12.3 ppg				0	0	0	Diameter
125 sk tail @ 14.8 ppg				0	0	0	0 in
Turnkey surface casing for LDNG				Treat Down	Displacement	Packer Type	Packer Depth
				Casing	18 bbl		0 ft
				Tubing Vol.	Casing Vol.	Annular Vol.	Open Hole Vol
				0 bbl	21 bbl	24 bbl	0 bbl
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: 165 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Other	
						Shoe Depth: 323 ft	
No. Centralizers: 3		Top Plugs: 1		Bottom Plugs: 0		Stage Tool Type	
Cement Head Type: Single						Tool Depth: 0 ft	
Job Scheduled For:		Arrived on Location:		Leave Location:		Stage Tool Depth: 0 ft	
		8/18/00 14:45		8/18/00 19:30		Collar Type: Auto-Fill	
						Tail Pipe Size: 0 in	
						Collar Depth: 282 ft	
						Tail Pipe Depth: 0 ft	
						Sqz Total Vol: 0 bbl	

Time	Cum Vol	Density	Pressure Ut	Pump	Reset Vol	Message	
24 hr clock	bbl	ppg	psi	bpm	bbl		
6:51	0	0	0	0	0	0	START ACQUISITION
6:51	0.	8.43	0.	0.	0.	0	
6:51	0.	8.43	0.	0.	0.	0	Pressure Test Lines
6:52	0.318	8.44	1016	0.028	0.318	0	
6:53	0.318	8.44	1016	0.028	0.318	0	[Reset Vol]=0 bbl
6:53	0.325	8.41	41.21	0.	0.	0	
6:54	0.325	8.42	27.47	0.	0.	0	
6:54	0.325	8.42	27.47	0.	0.	0	Start Pumping Water
6:55	2.45	8.32	329.7	4.92	2.13	0	
6:56	8.86	8.28	384.6	6.35	8.54	0	
6:56	8.86	8.28	384.6	6.35	8.54	0	[Reset Vol]=0 bbl
6:56	8.86	8.28	384.6	6.35	8.54	0	Start Mixing Lead Slurry
6:57	15.17	10.88	402.9	6.24	5.57	0	
6:58	21.5	11.94	444.1	6.91	11.89	0	
6:59	28.63	11.4	370.9	7.02	19.03	0	
7:00	35.77	11.4	302.2	7.1	26.17	0	
7:01	42.91	11.3	247.3	7.1	33.31	0	
7:02	50.02	11.18	187.7	7.05	40.41	0	
7:03	57.07	11.25	183.2	6.99	47.47	0	
7:04	64.1	11.23	178.6	6.99	54.49	0	
7:05	71.07	10.97	174.	6.96	61.47	0	
7:06	78.03	11.27	174.	6.93	68.43	0	

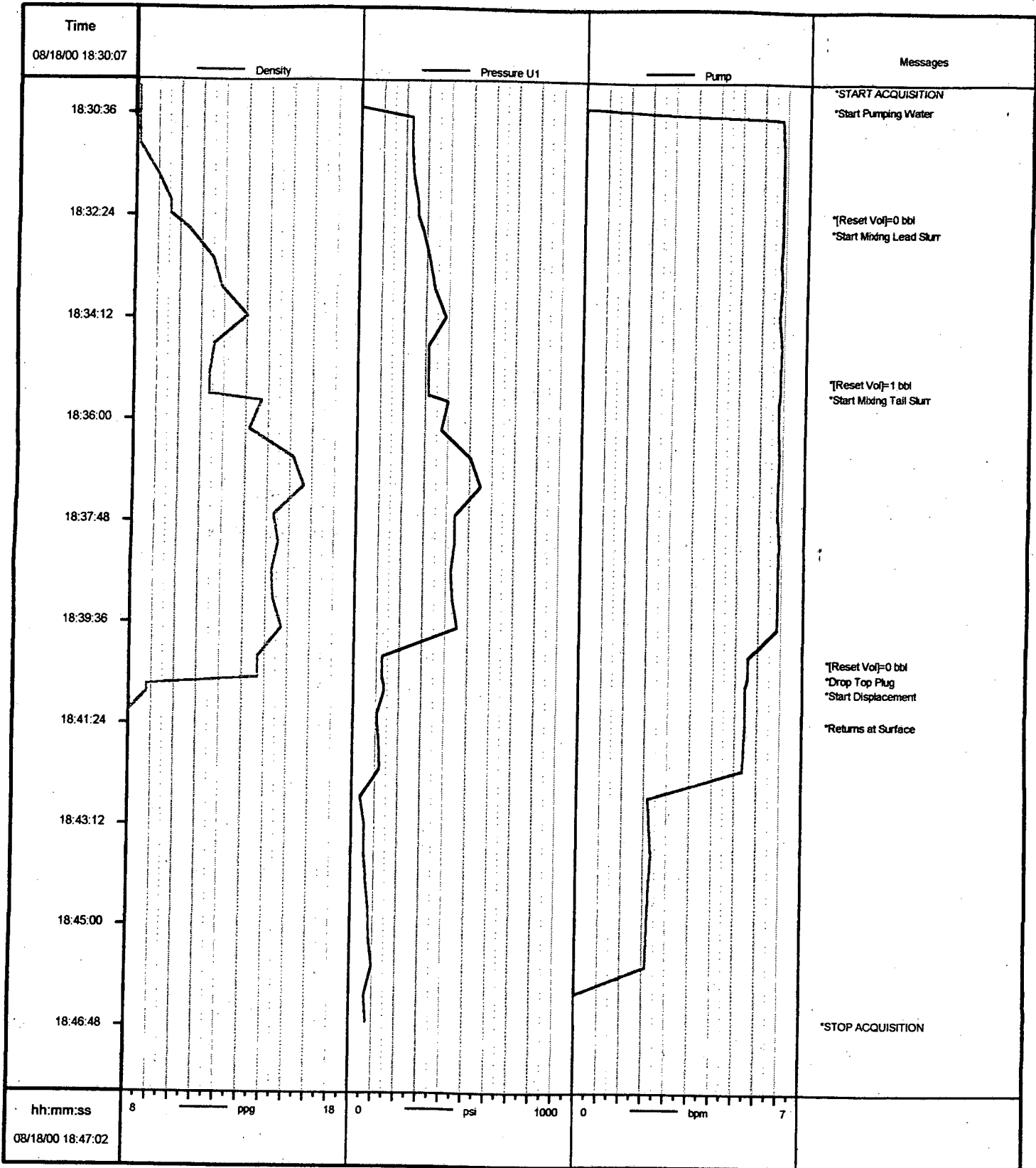
ORIGINAL

Well			Flow			Service Date		Customer	Job Number
HCU #720-C			BRADSHAW					CHEYENNE DRILLING	20171790
Time	CumVol	Density	Pressure U1	Pump	Reset Vol	Message			
24 hr clock	bbbl	ppg	psi	bpm	bbbl				
7:07	84.97	11.05	164.8	6.88	75.37	0	0		
7:08	91.95	10.7	151.1	6.91	82.35	0	0		
7:09	98.87	11.34	169.4	6.79	89.27	0	0		
7:10	105.7	11.42	174.	6.82	96.07	0	0		
7:11	112.5	11.12	164.8	6.79	102.9	0	0		
7:12	119.7	11.27	201.5	7.41	110.1	0	0		
7:13	126.9	11.22	187.7	7.07	117.3	0	0		
7:14	134.	11.47	183.2	7.02	124.4	0	0		
7:15	141.2	11.17	178.6	7.13	131.6	0	0		
7:16	148.4	11.09	174.	7.16	138.8	0	0		
7:17	155.5	11.05	174.	7.05	145.9	0	0		
7:18	162.6	10.76	174.	7.13	153.	0	0		
7:19	169.7	10.48	178.6	7.02	160.1	0	0		
7:20	176.8	11.77	210.6	6.88	167.2	0	0		
7:21	176.8	11.77	210.6	6.88	167.2	0	0	[Reset Vol]=0 bbl	
7:21	176.8	11.77	210.6	6.88	167.2	0	0	Start Mixing Tail Slurry	
7:21	183.7	12.05	215.2	6.85	1.38	0	0		
7:22	190.7	12.5	206.	7.24	8.33	0	0		
7:23	196.2	14.33	178.6	5.4	13.89	0	0		
7:24	201.7	15.79	219.8	5.28	19.34	0	0		
7:25	207.2	15.47	210.6	5.45	24.81	0	0		
7:26	212.6	15.29	201.5	5.54	30.24	0	0		
7:27	218.8	15.4	288.5	6.85	36.45	0	0		
7:27	218.8	15.4	288.5	6.85	36.45	0	0	Returns at Surface	
7:28	225.7	15.13	256.4	6.68	43.3	0	0		
7:29	228.8	5.	36.63	0.	46.43	0	0		
7:30	231.	5.	174.	5.51	48.67	0	0		
7:31	236.9	5.	201.5	5.93	54.58	0	0		
7:32	236.9	5.	201.5	5.93	54.58	0	0	[Reset Vol]=0 bbl	
7:32	237.3	5.	-18.32	0.	0.	0	0		
7:33	242.6	5.	59.52	6.12	5.25	0	0		
7:34	248.7	5.	123.6	6.24	11.43	0	0		
7:35	254.9	5.	293.	6.1	17.63	0	0		
7:36	261.1	5.	448.7	6.1	23.78	0	0		
7:37	267.2	5.	595.2	6.1	29.92	0	0		
7:38	272.3	5.	586.1	2.24	34.95	0	0		
7:39	274.5	5.	645.6	2.21	37.18	0	0		
7:40	276.7	5.	700.5	2.21	39.42	0	0		
7:41	278.9	5.	1397	0.084	41.56	0	0		
7:41	278.9	5.	1397	0.084	41.56	0	0	Bump Top Plug	
7:42	278.9	5.	1397	0.084	41.56	0	0	Bleed Off Pressure	
7:42	278.9	5.	1369	0.	41.56	0	0		
7:43	278.9	5.	0.	0.	41.56	0	0		

Well <b>HCU #720-C</b>		Field <b>BRADSHAW</b>		Service Date		Customer <b>CHEYENNE DRILLING</b>		Job Number <b>20171790</b>	
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	Pump bpm	Reset Vol bbl	Message			
<b>Post Job Summary</b>									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2	
5	0	0	6.2		48.5	0	11	0	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density	
245	0	200	500	0		0 bbl		0 lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 13 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft				
0 %	81 bbl		18 bbl	75 °F					
Customer or Authorized Representative <b>Domosco Castillo</b>			Dowell Supervisor <b>Brennon Fica</b>			<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			

Dowell

Well	HCU 720-C	Client	Cheyenne Drilling
Field	Bradshaw	SIR No.	20171790
Country	USA	Job Date	8/18/2000 6:30:07 PM



Job: chsf1790  
08/18/2000 18:51:50

# Cementing Service Report

ORIGINAL

Customer <b>LOUIS DREYFUS NATURAL GAS CORP</b>	Job Number <b>20170702</b>
---	-------------------------------

Well <b>HCU 720-C</b>		Location (legal) <b>NW 7-22S-40W</b>		Dowell Location <b>Ulysses, KS</b>		Job Start <b>08/20/2000</b>					
Field <b>BRADSHAW</b>		Formation Name/Type <b>CHASE</b>		Deviation <b>7.88 in</b>		Well MD <b>2,903 ft</b>					
County <b>HAMILTON</b>		State/Province <b>KS</b>		BHP <b>psi</b>		BHST <b>100 °F</b>					
Rig Name <b>CHEYENNE 8</b>		Drilled For <b>Gas</b>		Service Via <b>Land</b>		Casing/Liner					
Offshore Zone		Well Class <b>New</b>		Well Type <b>Development</b>		Depth, ft					
Drilling Fluid Type <b>Bentonite</b>		Max. Density <b>9.2 lb/gal</b>		Plastic Viscosity <b>34 cp</b>		Size, in					
Service Line <b>Cementing</b>		Job Type <b>Cem Prod Casing</b>		Weight, lb/ft		Grade					
Max. Allowed Tubing Pressure <b>psi</b>		Max. Allowed Ann. Pressure <b>psi</b>		WellHead Connection <b>4 1/2 HS&amp;M</b>		Thread					
Service Instructions 4 1/2" production casing in 7 7/8" open hole 350 sk C + 3% D79 + 1/4 pps D29 @ 11.1 ppg 200 sk C + 2% S1 + 1/4 pps D29 @ 14.8 ppg Displace w/ rig water, add 167 ppt M117 to flush (2%) Get well name and directions to the next well, let me know				Perforations/Open Hole		Depth, ft					
				Top, ft		Bottom, ft		spf			
				No. of Shots		Total Interval		ft		Diameter	
				in		Treat Down		Displacement		Packer Type	
				Casing		46.2 bbl		None		Packer Depth	
Tubing Vol.		Casing Vol.		Annular Vol.		OpenHole Vol					
bbl		46.6 bbl		117.9 bbl		bbl					
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job					
Lift Pressure: <b>1851 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: <b>Guide</b>					
No. Centralizers: <b>10</b>		Top Plugs: <b>1</b>		Bottom Plugs: <b>0</b>		Shoe Depth: <b>2913 ft</b>					
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>08/20/2000 5:00</b>		Arrived on Location: <b>8/20/2000 13:15</b>		Leave Location: <b>13:15</b>					
Stage Tool Type <b>None</b>		Stage Tool Depth: <b>0 ft</b>		Collar Type: <b>Auto-Fill</b>		Collar Depth: <b>2883 ft</b>					
Tool Depth: <b>0 ft</b>		Tail Pipe Size: <b>0 in</b>		Tail Pipe Depth: <b>0 ft</b>		Sqz Total Vol: <b>0 bbl</b>					
Time	CumVol	Density	Pressure U1	Reset Volume	TotFlowrate	Message					
24 hr clock	bbl	ppg	psi	bbl	bpm						
11:40	0	0	0	0	0	START PLAYBACK					
11:40	0.	8.36	-4.58	0.	0.						
11:42	0.	8.36	-4.58	0.	0.	START ACQUISITION					
11:44	0.	8.36	-4.58	0.	0.	[Reset Volume]=0 bbl					
11:44	0.	8.36	-4.58	0.	0.	Start Mixing Lead Slurry					
12:10	173.9	10.78	141.9	163.6	6.21						
12:13	173.9	10.78	141.9	163.6	6.21	[Reset Volume]=0 bbl					
12:13	173.9	10.78	141.9	163.6	6.21	Start Mixing Tail Slurry					
12:28	173.9	10.78	141.9	163.6	6.21	[Reset Volume]=18 bbl					
12:29	173.9	10.78	141.9	163.6	6.21	Start Displacement					
12:37	173.9	10.78	141.9	163.6	6.21	STOP PLAYBACK					



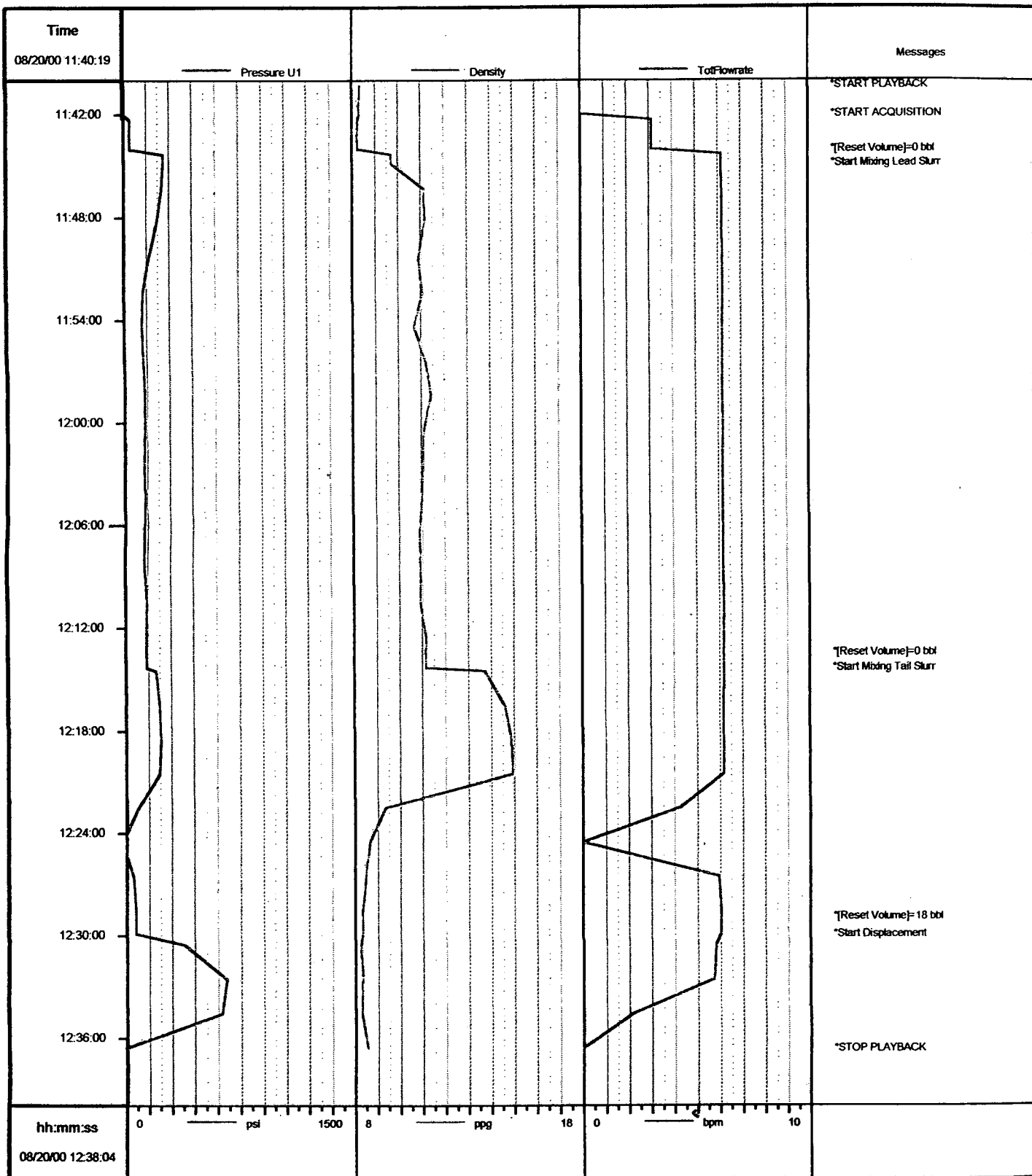
Well HCU #720-C			Field BRADSHAW			Service Date		Customer S DREYFUS NATURAL GAS		Job Number 20170702	
Time 24 hr clock	CanVol bbl	Density PPG	Pressure U1 psi	Reset Volume bbl	TotFlowrate bpm	Message					
<b>Post Job Summary</b>											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2			
6	0	0	6.4		235	0	10	0			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density			
650	600	250	1100	0		0 bbl		0 lb/gal			
Avg. N2 Percent		Designed Slurry Volume		Displacement		Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?		Volume 30 bbl	
0 %		246.7 bbl		45.8 bbl		°F		<input type="checkbox"/> Washed Thru Perfs To		0 ft	
Customer or Authorized Representative Darrell Toews				Dowell Supervisor Dave Brawley				<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	



Dowell

ORIGINAL

<b>Well</b> HCU 720-B	<b>Client</b> Louis Dreyfus Natural Ga
<b>Field</b> Bradshaw	<b>SIR No.</b> 20170702
<b>Country</b> USA	<b>Job Date</b> 08/20/2000 11:40:19 AM



Job: 01170702 (PLAYBACK)  
08/20/2000 12:45:33