RECEIVED
KANSAS CORPORATION COMMISSION
ORIGINAL
MAR 23 2001
CONSERVATION DIVISION
WICHITA, KS

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15 - 075-20742-0000

County Hamilton

SE - SE - SE - SE Sec. 18 Twp. 22S Rge. 40 E / x W

~~152~~ 157 Feet from [S] / N (circle one) Line of Section

~~107~~ 281 Feet from [E] / W (circle one) Line of Section

KCC GPS footages KJR

Footages Calculated from Nearest Outside Section Corner:
NE [SE] NW or SW (circle one)

Operator: License # 31321

Name: Louis Dreyfus Natural Gas Corp.

Address: Suite 600

14000 Quail Springs Parkway

City/State/Zip Oklahoma City, OK 73134

Purchaser:

Operator Contact Person: Lenora Sawyer

Phone (405) 748-2725

Contractor: Name Cheyenne Drilling

License: 5382

Wellsite Geologist: NA

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

____ Oil X SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl. Cathodic, etc.)

If Workover:

Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

____ Deepening ____ Re-perf. ____ Conv. To Inj/SWD
____ Plug Back ____ PBTD
____ Commingled Docket No.
____ Dual Completion Docket No.
X Other (SWD or Inj?) Docket No. D-27,849

3/4/01 Spud Date | 3/13/01 Date Reached TD | 3/20/01 Completion Date

Lease Name HCU Well # 1820-D

Field Name Bradshaw

Producing Formation Arbuckle

Elevation: Ground 3562' KB 3573'

Total Depth 6350' PBTD 6350'

Amount of Surface Pipe Set and Cemented at 1146' Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) Alt I KJR 12/14/07

Chloride content 5500 ppm Fluid volume 800 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name ____ License No. ____

____ Quarter Sec. ____ Twp ____ S Rng. ____ E / W

County ____ Docket No. ____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CD-4 form with all plugged wells. Submit CP-111 with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully compiled with and the statements herein are complete and correct to the best of my knowledge.

Signature Lenora Sawyer

Title Regulatory Technician Date

Subscribed and sworn to before me this 21st day of March 20 01.

Notary Public Lorrie A. Renfro

Date Commission Expires 9-01-01

LORRIE A. RENFRO
NOTARY PUBLIC
IN AND FOR
STATE OF
OKLAHOMA
OKLAHOMA COUNTY

K.C.C. OFFICE USE ONLY
F ____ Letter of Confidentiality Attached
C ____ Wireline Log Received
R ____ Geologist Report Received

Distribution
____ KCC VCM SWD/Rep ____ NGPA
____ KGS ____ Plug ____ Other (Specify)

Form ACO-1 (7-91)

Operator Name Louis Dreyfus Natural Gas Corp. Lease Name HCU Well # 1820-D

Sec. 18 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 (Attach Additional Sheets.) ☐ Yes ☒ No ☐ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:

Compensated Z-Densilog-CNL-GR
Cement Bond Log

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 Additivies
Surface	12-1/4"	8-5/8"	24#	1146'	35/65 Poz	335	Cl C w/6%D-20 2% S-1 + .25%
					Class "C"	200	D29 + 2% S-1
Production	7-7/8"	5-1/2"	15.5#	5955'	Class "H"	175	10% D44 + 10% D53 + 0.1%D46 + 0.25 pps D29

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ Plug Off Zone					

Shots Per Foot	PERFORATON RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Materials Used)	Depth
		15000 gal. 15% HCl acid, 4000 gal lease wtr, 5000# rock salt & 1000# Benzoic	5955'
		acid flakes down 5-1/2" casing	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8"	5939'	5939'	☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☒ Other (Explain)

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

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If Vented, submit ACO-18.) ☒ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☒ Other (Specify) SWD

Schlumberger

Cementing Service Report ORIGINAL

Customer	Job Number
LOUIS DREYFUS NATURAL GAS CORP	20205530

Well	Location (legal)	Dewell Location	Job Start
HCU 1820 D	SEC 18-22S-40W	Ulysses, KS	3/4/01

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Bradshaw	Surface	0 °	12.3 in	1,150 ft	1,150 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Hamilton	Kansas	0 psi	75 °F	70 °F	0 psi/ft

Rig Name	Drilled For	Service Via
Cheyenne Rig 5	Disposal	Land

Offshore Zone	Well Class	Well Type
	New	Other

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.2 lb/gal	35 cp

Service Line	Job Type
Cementing	Cem Surface Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
1000 psi	0 psi	Single cement head

Service Instructions

Cement 1150' 8 5/8" Surface
10 bbls fresh water spacer
335 sks Lead
200 sks tail

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1150	8.63	24	K55	8RD
0	0	0		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0	0	0		
0	0	0		

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
0	0	0	0	0 ft
0	0	0	0	Diameter
0	0	0	0	0 in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	70.6 bbl	None	0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 bbl	73.3 bbl	84.5 bbl	0 bbl

Casing/Tubing Secured ☑ 1 Hole Volume Circulated prior to Cementing ☐

Lift Pressure: 472 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers: 3 Top Plugs: 1 Bottom Plugs: 0

Cement Head Type: Single

Job Scheduled For: | Arrived on Location: 3/4/01 7:30 | Leave Location: 3/4/01 13:30

Casing Tools

Shoe Type:	Guide
Shoe Depth:	1150 ft
Stage Tool Type	None
Stage Tool Depth:	0 ft
Collar Type:	Auto-Fill
Collar Depth:	1109 ft

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	0 ft
Tail Pipe Size:	0 in
Tail Pipe Depth:	0 ft
Sqz Total Vol:	0 bbl

Time 24 hr clock	CumVol bbl	Density ppg	Flowrate bpm	Pressure DI psi	Resat Volume bbl			Message
11:47	0	0	0	0	0	0	0	START ACQUISITION
11:47	0.	-6.25	0.	-3764	0.	0	0	
11:48	0.	-6.25	0.	-3764	0.	0	0	PAUSE ACQUISITION
12:02	1.1	8.33	0.	4.58	1.1	0	0	
12:02	0.	-6.25	0.	-3764	0.	0	0	RESTART AFTER PAUSE
12:02	1.1	8.33	0.	4.58	1.1	0	0	Start Pumping Water
12:02	1.1	8.33	0.	4.58	1.1	0	0	
12:03	1.1	8.33	0.	4.58	1.1	0	0	
12:03	1.77	8.32	3.9	50.37	1.77	0	0	
12:04	3.73	8.32	3.98	50.37	3.73	0	0	
12:04	5.92	8.32	4.86	64.1	5.92	0	0	
12:05	8.29	8.3	4.7	50.37	8.29	0	0	
12:05	10.62	8.3	4.64	50.37	10.62	0	0	
12:05	10.62	8.3	4.64	50.37	10.62	0	0	[Resat Volume]=0 bbl
12:06	10.62	8.3	4.64	50.37	10.62	0	0	Start Mixing Lead Slurry
12:06	12.75	12.36	4.48	68.68	1.64	0	0	
12:06	14.83	13.3	4.62	160.3	3.72	0	0	
12:07	17.25	12.51	4.76	164.8	6.14	0	0	
12:07	19.86	12.77	5.35	132.8	8.74	0	0	
12:08	22.6	12.18	5.55	132.8	11.49	0	0	
12:08	25.37	12.44	5.51	109.9	14.25	0	0	
12:09	28.14	12.18	5.61	77.84	17.02	0	0	

Well	Field	Service Date	Customer	Job Number
HCU 1820 #D	Bradshaw		S DREYFUS NATURAL GAS	20205530

Time 24 hr clock	CumVol bbl	Density ppg	Flowrate bpm	Pressure UI psi	Reset Volume bbl			Message
12:09	30.96	12.49	5.63	114.5	19.85	0	0	
12:10	33.78	12.76	5.45	128.2	22.66	0	0	
12:10	36.63	12.29	5.75	109.9	25.51	0	0	
12:11	39.42	12.27	5.61	77.84	28.31	0	0	
12:11	42.25	12.3	5.51	100.7	31.13	0	0	
12:12	45.07	12.31	5.91	105.3	33.96	0	0	
12:12	48.05	12.32	5.61	100.7	36.93	0	0	
12:13	50.83	12.36	5.35	109.9	39.71	0	0	
12:13	54.07	12.33	6.27	132.8	42.95	0	0	
12:14	57.42	12.12	6.73	132.8	46.31	0	0	
12:14	60.55	12.05	4.88	64.1	49.44	0	0	
12:15	62.95	12.9	5.	100.7	51.83	0	0	
12:15	65.72	12.41	5.37	87.	54.6	0	0	
12:16	68.41	12.11	5.55	82.42	57.29	0	0	
12:16	71.09	12.32	5.45	82.42	59.98	0	0	
12:17	73.79	12.55	5.17	105.3	62.67	0	0	
12:17	76.44	12.63	5.27	82.42	65.32	0	0	
12:18	79.13	12.59	5.13	73.26	68.02	0	0	
12:18	81.81	12.52	5.41	91.58	70.7	0	0	
12:19	84.49	12.46	5.17	87.	73.37	0	0	
12:19	87.24	12.46	5.41	96.15	76.13	0	0	
12:20	90.01	12.42	5.47	96.15	78.89	0	0	
12:20	92.75	12.36	5.41	100.7	81.63	0	0	
12:21	95.44	12.35	5.51	96.15	84.33	0	0	
12:21	98.15	12.35	5.53	87.	87.04	0	0	
12:22	100.8	12.37	5.39	82.42	89.72	0	0	
12:22	103.5	12.45	5.47	91.58	92.41	0	0	
12:23	106.2	12.43	5.23	96.15	95.09	0	0	
12:23	108.9	12.74	5.27	105.3	97.8	0	0	
12:24	111.6	12.26	5.15	100.7	100.5	0	0	
12:24	114.3	12.61	5.67	96.15	103.2	0	0	
12:25	117.	12.51	5.45	100.7	105.9	0	0	
12:25	119.7	12.7	5.25	68.68	108.6	0	0	
12:26	122.4	12.53	5.21	87.	111.3	0	0	
12:26	125.1	12.53	5.29	64.1	113.9	0	0	
12:27	127.7	12.45	5.37	73.26	116.8	0	0	
12:27	130.4	12.39	5.37	96.15	119.3	0	0	
12:28	133.1	12.34	5.31	87.	122.	0	0	
12:28	135.9	12.11	5.19	82.42	124.8	0	0	
12:29	135.9	12.11	5.19	82.42	124.8	0	0	[Reset Volume]=2 bbl
12:29	135.9	12.11	5.19	82.42	124.8	0	0	Start Mixing Tail Slurry
12:29	138.7	14.02	5.57	109.9	2.66	0	0	
12:29	141.6	15.08	5.69	137.4	5.52	0	0	
12:30	144.2	14.9	5.47	141.9	8.19	0	0	
12:30	146.9	14.58	5.35	128.2	10.85	0	0	
12:31	149.7	14.88	5.43	137.4	13.61	0	0	
12:31	152.4	15.03	5.27	146.5	16.31	0	0	
12:32	155.	14.93	5.49	141.9	18.99	0	0	
12:32	157.7	14.7	5.45	137.4	21.67	0	0	
12:33	160.4	14.83	5.45	123.6	24.39	0	0	
12:33	163.2	15.17	5.35	114.5	27.11	0	0	
12:34	165.8	14.92	5.25	128.2	29.78	0	0	
12:34	168.6	14.65	5.71	123.6	32.6	0	0	
12:35	171.3	15.05	5.35	132.8	35.22	0	0	

Well	Field	Service Date	Customer	Job Number
HCU 1820 #D	Bradshaw		S DREYFUS NATURAL GAS	20205530

Time 24 hr clock	CurrVol bbl	Density ppg	Flowrate bpm	Pressure U1 psi	Reset Volume bbl			Message
12:35	174.	15.18	5.37	146.5	37.91	0	0	
12:36	176.7	14.75	5.51	137.4	40.61	0	0	
12:36	179.4	14.76	5.45	128.2	43.34	0	0	
12:37	182.1	14.69	5.33	132.8	46.01	0	0	
12:37	184.7	13.8	5.81	109.9	48.66	0	0	
12:38	187.2	13.38	0.779	0.	51.15	0	0	
12:38	188.	12.03	0.	0.	51.93	0	0	
12:39	188.	11.03	0.	-4.58	51.94	0	0	
12:39	188.3	9.	0.	-4.58	52.26	0	0	
12:40	190.4	8.79	6.05	54.95	54.32	0	0	
12:40	193.4	8.78	5.97	54.95	57.34	0	0	
12:41	196.4	8.35	5.93	45.79	60.34	0	0	
12:41	196.4	8.35	5.93	45.79	60.34	0	0	[Reset Volume]=10 bbl
12:41	196.4	8.35	5.93	45.79	60.34	0	0	Start Displacement
12:41	199.4	8.4	5.99	50.37	10.9	0	0	
12:42	202.4	8.4	5.99	54.95	13.91	0	0	
12:42	205.3	8.33	5.79	54.95	16.88	0	0	
12:43	208.1	8.33	5.27	59.52	19.65	0	0	
12:43	210.7	8.34	5.05	59.52	22.23	0	0	
12:44	213.2	8.34	4.94	45.79	24.73	0	0	
12:44	215.6	8.33	4.84	54.95	27.19	0	0	
12:45	218.1	8.33	4.78	77.84	29.6	0	0	
12:45	220.5	8.33	4.78	91.58	32.	0	0	
12:46	222.9	8.33	4.78	87.	34.4	0	0	
12:46	225.2	8.33	4.7	132.8	36.78	0	0	
12:47	227.6	8.33	4.72	141.9	39.14	0	0	
12:47	229.9	8.33	4.64	160.3	41.48	0	0	
12:48	232.3	8.33	4.62	183.2	43.79	0	0	
12:48	234.5	8.33	4.58	187.7	46.09	0	0	
12:49	236.8	8.33	4.5	208.	48.36	0	0	
12:49	239.1	8.33	4.48	215.2	50.6	0	0	
12:50	241.3	8.33	4.42	238.1	52.83	0	0	
12:50	243.5	8.33	4.38	261.	55.03	0	0	
12:51	245.7	8.33	4.32	265.6	57.21	0	0	
12:51	247.8	8.33	4.3	283.9	59.37	0	0	
12:52	250.	8.33	4.26	288.5	61.51	0	0	
12:52	252.1	8.33	4.24	297.6	63.64	0	0	
12:53	254.1	8.33	2.68	297.6	65.68	0	0	
12:53	255.2	8.33	2.06	302.2	66.77	0	0	
12:54	256.3	8.33	2.06	293.	67.8	0	0	
12:54	257.3	8.33	2.04	306.8	68.83	0	0	
12:55	258.3	8.33	2.02	315.9	69.84	0	0	
12:55	259.3	8.33	2.	329.7	70.86	0	0	
12:56	260.2	8.33	0.3	293.	71.74	0	0	
12:56	260.2	8.33	0.	293.	71.75	0	0	
12:57	260.2	8.33	0.	-4.58	71.75	0	0	
12:57	260.2	8.33	0.	0.	71.75	0	0	
12:58	260.2	8.33	0.	0.	71.75	0	0	
12:58	260.2	8.33	0.	0.	71.75	0	0	

Well	Field	Service Date	Customer	Job Number
HCU 1820 #D	Bradshaw		S DREYFUS NATURAL GAS	20205530

Time 24 hr clock	CumVol bbl	Density ppg	Flowrate bpm	Pressure DI psi	Reset Volume bbl			Message

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
5	0	0	6.2

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
172	0	10	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
325	325	200	0	0

Breakdown Fluid

Type	Volume	Density
	0 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp
0 %	172 bbl	0 bbl	50 °F

☑ Cement Circulated to Surface? Volume 70 bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Darryl Toews	David Brawley	☐ CirculationLost	☑ Job Completed

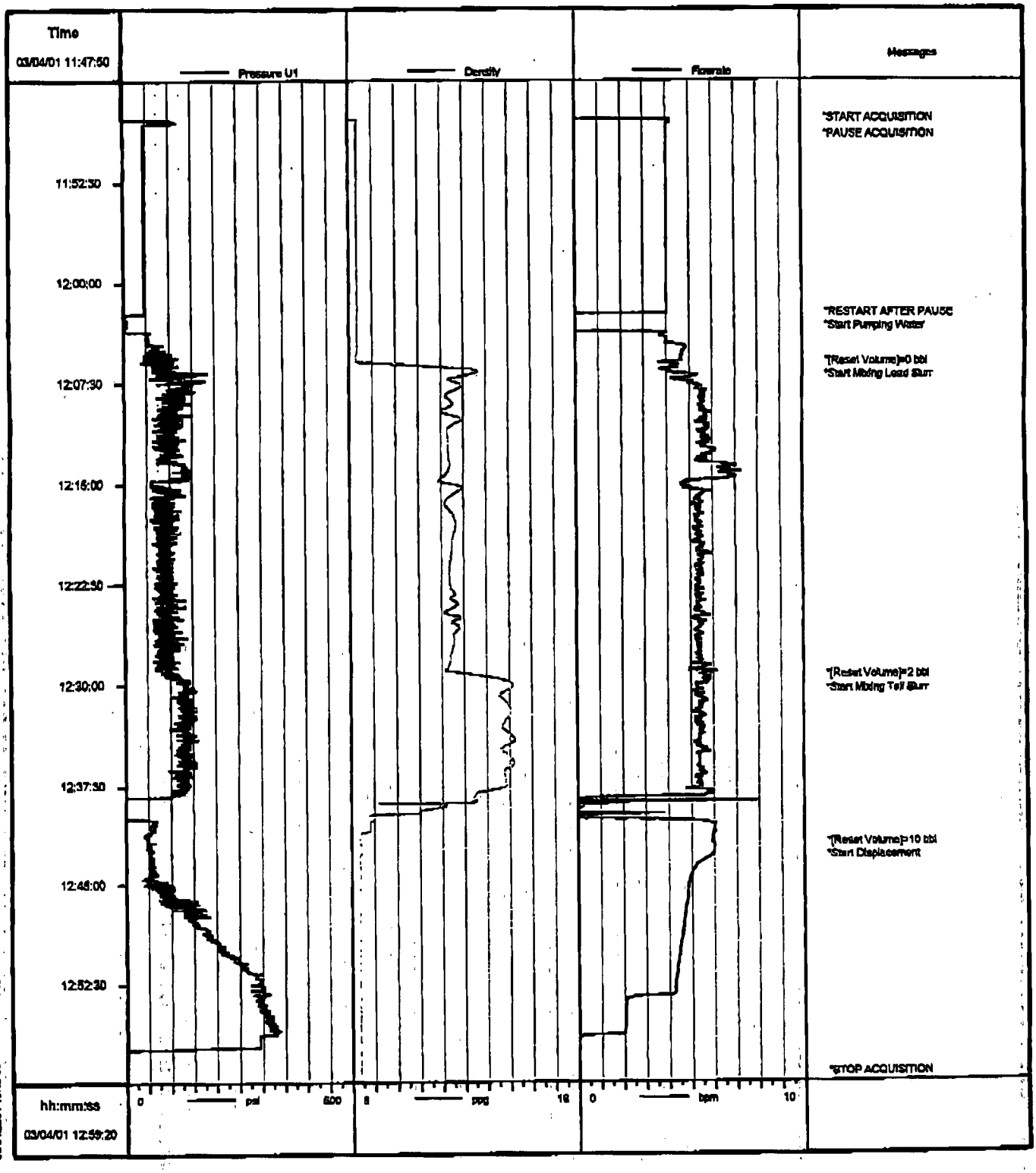
Schlumberger
Dowell

Cementing Job Report

ORIGINAL

PRISM* V2.23

Well	HCU 1820D	**Client**	Louis Dreyfus Natural Ga
Field	Bradshaw	**SIR No.**	20205530
Country	USA	**Job Date**	3/4/2001 11:47:50 AM



* Mark of Schlumberger

Schlumberger

Cementing Service Report

Customer: LOUIS DREYFUS NATURAL GAS CORP						Job Number: 2000
Well: HCU 1820 D	Location (legal): SEC 18-22S-40W		Dowell Location: Ulysses, KS			Job Start: 3/14/01
Field: Bradshaw	Formation Name/Type: Arbuckle		Deviation: 0	Bit Size: 0	Well MD: 6,360	Well TVD: 6,360
County: Hamilton	State/Province: Kansas		BHP: 0	BHST: 130	BHCT: 115	Pore Press. Gradient:
Rig Name:	Drilled For: Disposal	Service Via: Land	Casing/Liner			
Offshore Zone:	Well Class: New	Well Type: Development	Depth, 5959	Size, 5.5	Weight, 15.5	Grade:	Thread:
			0	0	0		
Drilling Fluid Type: Bentonite	Max. Density: 9	Plastic Viscosity: 34	Tubing/Drill Pipe				
Service Line: Cementing	Job Type: Cem Prod Casing		Depth, 0	Size, 0	Weight, 0	Grade:	Thread:
			0	0	0		
Max. Allowed Tubing Pressure: 2000	Max. Allowed Ann. Pressure:	Wellhead Connection: Single Cement Hea	Perforations/Open Hole				
Service Instructions: Cement 5900' of 5 1/2" L/S Through packer shoe			Top,	Bottom,		No. of Shots:	Total Interval:
							Diameter:
			Treat Down:	Displacement: 140.8	Packer Type: None		Packer Depth:
			Tubing Vol.:	Casing Vol.: 141.8	Annular Vol.: 181		Open Hole Vol:

Casing/Tubing Secured: ☑ 1 Hole Volume Circulated prior to Cementing: ☐

LIR Pressure: 3887

Pipe Rotated: ☐ Pipe Reciprocated: ☑

No. Centralizers: 2 Top Plugs: 1 Bottom Plugs: 0

Cement Head Type: Single

Job Scheduled For: 3/12/01 19:00 | Arrived on Location: 3/13/01 19:00 | Leave Location: 3/14/01 7:30

Casing Tools		Squeeze Job	
Shoe Type:	Packer	Squeeze Type:	
Shoe Depth:	5959	Tool Type:	
Stage Tool Type:		Tool Depth:	0
Stage Tool Depth:	0	Tail Pipe Size:	0
Collar Type:	Latch In	Tail Pipe Depth:	0
Collar Depth:	5910	Sqz Total Vol:	0

Time Clock	Stage/Plug #	Density ppg	Pressure psi	Rate bpm	Total Fluid bbl	Total Nitrogen scf	Total Slurry bbl	Remarks
5:43	0	0	0	0	0	0	0	START ACQUISITION
5:43	0.	9.6	-9.16	0.	0.	0	0	
5:43	0.	9.6	-9.16	0.	0.	0	0	Start Pumping Wash
5:43	0.008	9.46	-9.16	0.008	0.	0	0	
5:44	0.701	8.3	32.05	0.701	0.2	0	0	
5:44	0.753	8.39	32.05	0.753	0.2	0	0	
5:45	1.04	8.13	87.	1.04	0.	0	0	
5:45	1.04	8.11	82.42	1.04	0.	0	0	
5:46	1.15	8.2	96.15	1.15	0.1	0	0	
5:46	2.67	8.01	164.8	2.67	3.38	0	0	
5:47	4.45	8.01	183.2	4.45	3.64	0	0	
5:47	6.29	8.01	141.9	6.29	3.8	0	0	
5:48	8.23	8.01	174.	8.23	3.9	0	0	
5:48	10.17	8.02	178.6	10.17	3.16	0	0	
5:49	12.05	9.09	187.7	12.05	4.34	0	0	
5:50	13.62	12.31	164.8	13.62	0.08	0	0	[Reset Volume]=0 bbl
5:50	13.62	12.31	164.8	13.62	0.08	0	0	
5:50	13.62	12.31	164.8	13.62	0.08	0	0	Start Cement Slurry
5:50	15.76	14.09	164.8	3.15	4.3	0	0	
5:51	18.76	15.22	187.7	5.14	3.74	0	0	
5:51	20.7	15.54	201.5	7.07	4.52	0	0	
5:52	22.89	15.45	151.1	9.27	4.24	0	0	

Well		Field		Service Date	Customer	Job Number
HCU 1620 #D		Bradshaw			S DREYFUS NATURAL GAS	20020902

Time	Density In	Density Out	Rate In	Rate Out	Total In	Total Out	Pressure	Notes
	1st	2nd	1st	2nd	1st	2nd		
5:52	25.19	14.78	128.2	11.57	4.96	0	0	
5:53	27.68	14.9	114.5	14.05	4.66	0	0	
5:53	29.9	14.58	105.3	16.27	4.68	0	0	
5:54	32.13	14.63	77.84	18.5	3.78	0	0	
5:54	34.1	14.71	73.26	20.47	4.28	0	0	
5:55	36.13	14.45	73.26	22.51	4.1	0	0	
5:55	38.14	14.6	73.26	24.51	3.98	0	0	
5:56	40.09	14.54	66.68	26.47	4.02	0	0	
5:56	42.03	14.61	69.68	28.41	3.64	0	0	
5:57	44.01	14.68	69.69	30.39	4.08	0	0	
5:57	45.89	14.46	68.68	32.27	3.62	0	0	
5:58	47.84	14.67	68.68	34.22	3.9	0	0	
5:58	49.72	14.61	68.68	36.1	3.68	0	0	
5:59	51.64	14.61	64.1	38.02	3.62	0	0	
5:59	53.54	14.74	64.1	39.92	3.96	0	0	
6:00	55.36	14.55	64.1	41.73	3.64	0	0	
6:00	57.44	13.9	77.84	43.82	5.01	0	0	
6:01	59.7	13.84	77.84	46.08	4.22	0	0	
6:01	59.79	13.8	-4.58	46.16	0.	0	0	
6:02	69.84	11.16	-4.58	46.21	0.639	0	0	
6:02	59.88	9.46	-4.58	46.25	0.	0	0	
6:03	60.3	9.32	-4.58	46.67	1.58	0	0	
6:03	60.32	9.54	-4.58	46.7	0.	0	0	
6:04	60.32	9.23	-9.16	46.7	0.	0	0	
6:04	60.4	9.17	-9.16	46.76	0.	0	0	
6:05	60.41	9.13	-4.58	46.79	0.	0	0	
6:05	60.42	9.13	-9.16	46.79	0.	0	0	
6:06	60.44	9.13	-4.58	46.82	0.	0	0	
6:06	60.46	9.13	-4.58	46.84	0.06	0	0	
6:07	60.48	9.13	0.	46.85	0.04	0	0	
6:07	60.56	9.76	59.52	46.94	0.	0	0	
6:08	63.26	9.13	123.6	49.64	6.09	0	0	
6:08	66.4	5.82	91.58	52.77	5.85	0	0	
6:09	69.32	8.01	73.26	55.69	5.83	0	0	
6:09	72.23	8.1	73.26	58.61	5.77	0	0	
6:10	75.23	8.14	73.26	61.6	6.19	0	0	
6:10	78.42	8.01	73.26	64.8	6.17	0	0	
6:11	81.52	8.01	73.26	67.9	6.17	0	0	
6:11	81.52	8.01	73.26	67.9	6.17	0	0	[Reset Volume]=20 bbl
6:11	81.52	8.01	73.26	67.9	6.17	0	0	Start Displacement
6:11	84.61	8.04	77.84	22.57	6.15	0	0	
6:12	87.7	8.01	77.84	25.66	6.15	0	0	
6:12	90.79	8.	77.84	28.76	6.19	0	0	
6:13	93.89	8.04	73.26	31.85	6.15	0	0	
6:13	96.98	8.04	77.84	34.94	6.11	0	0	
6:14	100.1	8.	77.84	38.03	6.15	0	0	
6:14	103.2	8.	77.84	41.13	6.11	0	0	
6:15	106.2	8.01	77.84	44.21	6.09	0	0	
6:15	109.3	8.	73.26	47.28	6.09	0	0	
6:16	112.4	8.	73.26	50.35	6.15	0	0	
6:16	115.4	8.	73.26	53.4	6.07	0	0	
6:17	118.5	8.	77.84	56.46	6.07	0	0	
6:17	121.5	8.	73.26	59.51	6.09	0	0	
6:18	124.6	8.	73.26	62.55	6.07	0	0	

ORIGINAL

Well		Field		Service Date	Customer	Job Number
HCU 1820 #D		Bradshaw			S DREYFUS NATURAL GAS	

Time	Casing Pressure	Density	Pressure Drop	Fluid Volume	Rate/Minute			Message
24 hr clock	psi	ppg	psi	bbl	bbls			
6:18	127.6	8.	73.26	65.61	6.09	0	0	
6:19	130.7	8.	73.26	68.65	6.07	0	0	
6:19	133.7	8.	73.26	71.7	6.07	0	0	
6:20	136.8	8.	73.26	74.74	6.09	0	0	
6:20	139.8	8.	73.26	77.79	6.05	0	0	
6:21	142.9	8.	73.26	80.88	6.09	0	0	
6:21	146.	8.	73.26	83.95	6.09	0	0	
6:22	149.	8.	73.26	87.01	6.09	0	0	
6:22	152.2	8.	77.84	90.12	6.09	0	0	
6:23	155.2	8.	73.26	93.17	6.07	0	0	
6:23	158.3	8.	73.26	96.23	6.13	0	0	
6:24	161.3	8.	73.26	99.29	6.07	0	0	
6:24	164.4	8.	73.26	102.4	6.09	0	0	
6:25	167.5	8.	73.26	105.4	6.09	0	0	
6:25	170.5	8.	73.26	108.5	6.13	0	0	
6:26	173.7	8.	73.26	111.6	6.09	0	0	
6:26	176.8	8.	73.26	114.7	6.07	0	0	
6:27	179.7	8.	109.9	117.6	5.41	0	0	
6:27	182.3	8.	155.7	120.3	5.17	0	0	
6:28	184.8	8.	215.2	122.8	5.01	0	0	
6:28	187.3	8.	256.4	125.3	5.07	0	0	
6:29	189.8	8.	315.9	127.8	4.98	0	0	
6:29	192.3	8.	352.6	130.3	4.82	0	0	
6:30	194.7	8.	402.9	132.7	4.86	0	0	
6:30	197.	8.	380.	135.	3.22	0	0	
6:31	198.4	8.	389.2	136.4	2.5	0	0	
6:31	199.6	8.	402.9	137.6	2.44	0	0	
6:32	200.9	8.	430.4	138.8	2.42	0	0	
6:32	202.1	8.	453.3	140.	2.44	0	0	
6:33	203.3	8.	480.8	141.3	2.4	0	0	
6:33	204.5	8.	508.2	142.5	2.42	0	0	
6:34	205.7	8.	531.1	143.7	2.44	0	0	
6:34	206.9	8.	549.5	144.9	2.44	0	0	
6:35	208.1	8.	572.3	146.1	2.39	0	0	
6:35	208.4	8.	476.2	146.4	1.2	0	0	
6:36	208.6	8.	453.3	146.6	0.	0	0	
6:38	208.6	8.	412.1	146.6	0.	0	0	
6:37	208.7	7.99	402.9	146.7	0.	0	0	
6:37	209.3	8.	627.3	147.3	1.9	0	0	
6:38	210.2	8.	723.4	148.2	1.64	0	0	
6:38	210.4	8.	558.6	148.4	0.	0	0	
6:39	210.4	8.	485.3	148.4	0.	0	0	
6:39	210.4	8.	448.7	148.4	0.	0	0	
6:40	210.4	8.	425.8	148.4	0.	0	0	
6:40	210.4	8.	407.5	148.4	0.	0	0	
6:41	210.4	8.	402.9	148.4	0.	0	0	
6:41	210.4	8.	9.16	148.4	0.	0	0	

Well	Field	Service Date	Customer	Job Number
HCU 1820 #D	Bradshaw		S DREYFUS NATURAL GAS	

Time	Comments	Density	Pressure (psi)	Rate/Volume	Total Fluid	Message
24 hr		ppg		bpm	bbl	

Post-Job Summary

Average Pump Rates,

Slurry	N2	Mud	Maximum Rate
5	0	0	6.2

Volume of Fluid Injected,

Total Slurry	Mud	Spacer	N2
47.4	0	10	0

Treating Pressure Summary,

Maximum	Final	Average	Bump Plug to	Breakdown
700	700	200	0	0

Breakdown Fluid

Type	Volume	Density
	0	0

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	
0 %	47	142.2	55	☐ Cement Circulated to Surface? Volume 0 ☐ Washed Thru Perfs To 0

Customer or Authorized Representative	Dowell Supervisor		
Darryl Toews	David Brawley	☐ Circulation Lost	☑ Job Completed

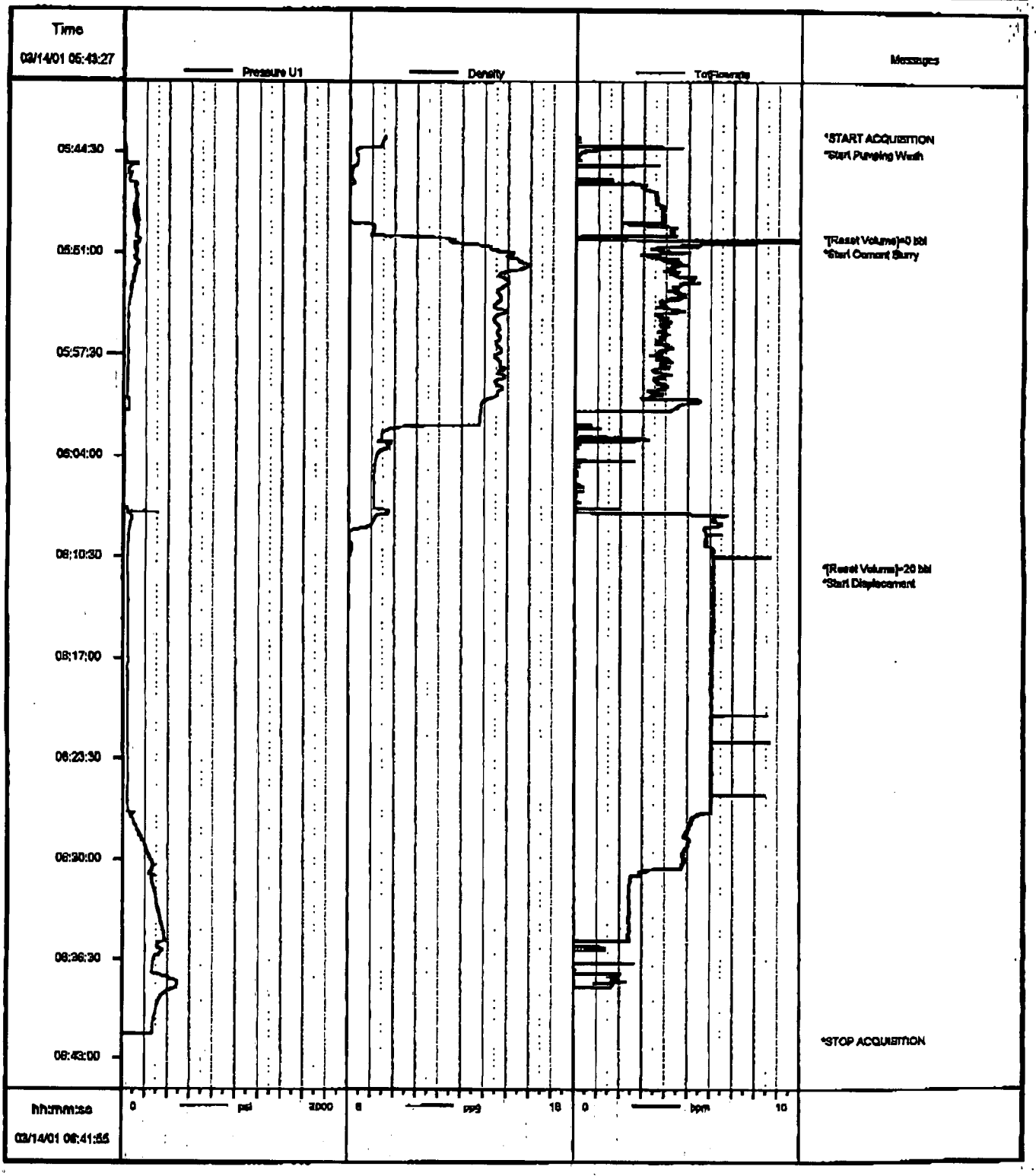
Schlumberger
Dowell

Cementing Job Report

ORIGINAL

PRISM* V2.23

Well	HCU 1820D	Client	Louis Dreyfus Natural Ga
Field	Bradshaw	SIR No.	20206869
Country	USA	Job Date	3/14/2001 5:43:27 AM



Job 1820dsp

03/14/2001 06:53:16

* Mark of Schlumberger