

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

API NO. 15 - 075-20728-00-00

ORIGINAL

County Hamilton
- NW - SE - SE Sec. 15 Twp. 22S Rge. 41 X E W

Operator: License # 31321

1250' Feet from / N (circle one) Line of Section

Name: Louis Dreyfus Natural Gas Corp.

1250' Feet from / W (circle one) Line of Section

Address: Suite 600

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

14000 Quail Springs Parkway

City/State/Zip Oklahoma City, OK 73134

Lease Name HCU Well # 1521-C

Purchaser: Oneok Field Services

Field Name Bradshaw

Operator Contact Person: Lenora Sawyer

Producing Formation Chase

Phone (405) 748-2725

Elevation: Ground 3623' KB 3628'

Contractor: Name Cheyenne Drilling

RECEIVED
STATE CORPORATION COMMISSION
WICHITA, KANSAS
SEP 11 2000

Total Depth 2907' PBDT 2858'

License: 5382

Amount of Surface Pipe Set and Cemented at 303' Feet

Wellsite Geologist: NA

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from 303'

feet depth to Surface w/ 175 sx cmt

If Workover:

Drilling Fluid Management Plan ALT #2 KGR 7/05/07
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 92000 ppm Fluid volume 800 bbls

Well Name: _____

Dewatering method used Evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. To Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name _____

Lease Name _____ License No. _____

8/8/00 8/10/00 9/7/00
Spud Date Date Reached TD Completion Date

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

County _____ Docket No. _____

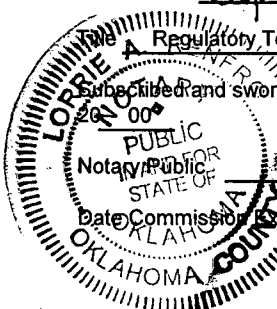
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side 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
Regulatory Technician Date 9/7/00

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
KCC	<input type="checkbox"/>	SWD/Rep
KGS	<input type="checkbox"/>	Plug
	<input type="checkbox"/>	NGPA
	<input type="checkbox"/>	Other
		(Specify)

Subscribed and sworn to before me this 7th day of September,
2000
PUBLIC Notary Public FOR STATE OF OKLAHOMA
Date Commission Expires 9-01-01
Janice A. Renfro



Operator Name Louis Dreyfus Natural Gas Corp.

Lease Name HCU Well # 1521-C

Sec. 15 Twp. 22S Rge. 41
 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.) Name Top Datum

Samples Sent to Geological Survey Yes No

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#	303'	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#	2902'	Cl "C"	350	3%D79+1/4 pps D29
					Cl "C"	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	2716-2734'	Frac w/1000 gal 50Q 15% HCl acid + 16000 gal 65QWF130 + 16000# 12/20 Brady sand + 16000# 12/20 resin coated sand	2716-2734'

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>2792'</u>	Packer At <u>NA</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. <u>9/01/00</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil <u>NA</u> Bbls	Gas <u>219</u> Mcf	Water <u>187</u> Bbls.	Gas-Oil Ratio <u>NA</u> Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2716-2734'

(If Vented, submit ACO-18.) Other (Specify) _____

ORIGINAL

DRILLER'S LOG

LOUIS DREYFUS NATURAL GAS CORP
HCU 1521 C
SECTION 15-T22S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 08-08-00
COMPLETED: 08-10-00

SURFACE CASING: 303' OF 8 5/8" CMTD
W/50 SKS 65:35 "C" POZ + 6% D2 + 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 - 303
RED BED	303 - 1705
GLORIETTA	1705 - 1956
RED BED	1956 - 2907 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

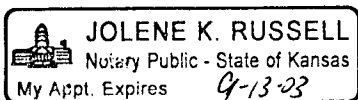
STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 17TH DAY OF AUGUST, 2000.

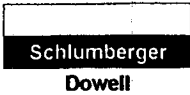
JOLENE K. RUSSELL



NOTARY PUBLIC



Cementing Service Report



Customer	Job Number
LOUIS DREYFUS NATURAL GAS CORP	20170703

Well HCU 15-21 C		Location (legal) 15, 22, 41		Dowell Location Ulysses, KS		Job Start 08/09/2000					
Field BRADSHAW		Formation Name/Type CHASE		Deviation °		Well TVD 2,900 ft					
County Hamilton		State/Province KS		Bit Size 7.88 in		Well MD 2,900 ft					
Rig Name CHEYENNE 8		Service Via Land		BHP psi		BHT 100 °F					
Offshore Zone		Well Type Development		BHCT 80 °F		Pore Press. Gradient psi/ft					
Drilling Fluid Type		Max. Density 0 lb/gal		Plastic Viscosity 0 cp		Casing/Liner					
Service Line Cementing		Job Type Cem Prod Casing		Depth, ft 2906		Grade K55					
Max. Allowed Tubing Pressure psi		Max. Allowed Ann. Pressure psi		WellHead Connection 4 1/2" HS&M		Thread 8RD					
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				Tubing/Drill Pipe		Perforations/Open Hole					
				Depth, ft		Size, in		Weight, lb/ft			
				0		0		0		Grade	
				0		0		0		Thread	
				0		0		0		0	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job					
Lift Pressure: 700 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide					
No. Centralizers: 10		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 2896 ft					
Cement Head Type: Single		Arrived on Location: 08/09/2000 19:30		Leave Location: 08/09/2000 19:15		Tool Type:					
Job Scheduled For: 08/09/2000 19:30		Stage Tool Type		Stage Tool Depth: 0 ft		Tool Depth: 0 ft					
Collar Type: Auto-Fill		Collar Depth: 2853 ft		Sqz Total Vol: 0 bbl		Tail Pipe Size: 0 in					
Collar Depth: 2853 ft		Tail Pipe Depth: 0 ft		OpenHole Vol: 0 bbl		Tail Pipe Depth: 0 ft					

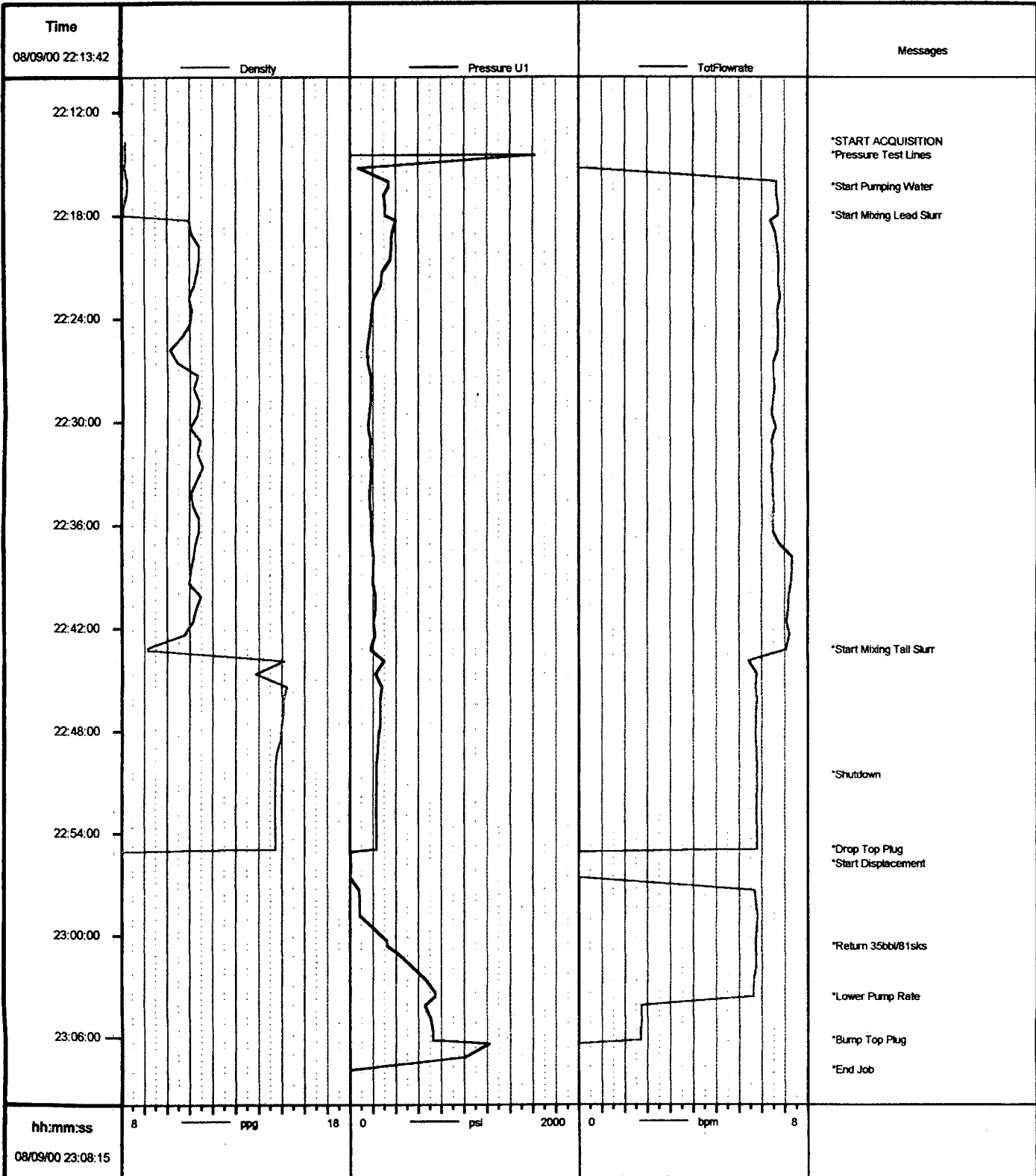
Time	CumVol	Density	Pressure U1	TotFlowrate	Message			
24 hr clock	bbl	ppg	psi	bpm				
22:13	0	0	0	0	0	0	0	START ACQUISITION
22:13	0.	8.19	0.	0.	0	0	0	
22:14	0.214	8.18	581.5	0.	0	0	0	
22:14	0.214	8.18	581.5	0.	0	0	0	Pressure Test Lines
22:14	0.223	8.21	1983	0.	0	0	0	
22:15	0.223	8.16	73.26	0.	0	0	0	
22:15	0.245	8.18	27.47	0.923	0	0	0	
22:16	3.12	8.24	288.5	6.63	0	0	0	
22:16	3.12	8.24	288.5	6.63	0	0	0	Start Pumping Water
22:16	6.56	8.24	293.	6.91	0	0	0	
22:17	10.04	8.2	297.6	6.91	0	0	0	
22:17	13.52	8.06	315.9	6.96	0	0	0	
22:17	13.52	8.06	315.9	6.96	0	0	0	Start Mixing Lead Slurry
22:18	2.38	10.98	402.9	6.71	0	0	0	
22:18	5.8	11.32	366.3	6.79	0	0	0	
22:19	9.25	11.36	380.	6.91	0	0	0	
22:19	12.76	11.39	361.7	6.93	0	0	0	
22:20	16.28	11.52	320.5	7.07	0	0	0	
22:20	19.79	11.39	320.5	6.99	0	0	0	
22:21	23.31	11.32	279.3	6.99	0	0	0	
22:21	26.82	11.17	265.6	6.99	0	0	0	
22:22	30.32	11.07	274.7	6.85	0	0	0	

Well		Field			Service Date		Customer	Job Number
HCU #15-21 C		BRADSHAW					S DREYFUS NATURAL GAS	20170703
Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbf	ppg	psi	bpm				
22:22	33.82	10.97	210.6	7.05	0	0	0	
22:23	37.34	11.07	192.3	6.99	0	0	0	
22:23	40.84	11.07	178.6	6.93	0	0	0	
22:24	44.32	11.	178.6	6.96	0	0	0	
22:24	47.8	11.3	183.2	6.88	0	0	0	
22:25	51.29	10.43	160.3	6.99	0	0	0	
22:25	54.77	10.14	151.1	6.96	0	0	0	
22:26	58.23	11.03	164.8	6.74	0	0	0	
22:26	61.64	11.65	192.3	6.77	0	0	0	
22:27	65.05	11.33	178.6	6.82	0	0	0	
22:27	68.47	11.15	174.	6.82	0	0	0	
22:28	71.9	11.34	183.2	6.79	0	0	0	
22:28	75.31	11.4	178.6	6.79	0	0	0	
22:29	78.73	11.27	174.	6.79	0	0	0	
22:29	82.13	11.18	169.4	6.77	0	0	0	
22:30	85.54	11.	160.3	6.91	0	0	0	
22:30	89.01	11.49	178.6	6.77	0	0	0	
22:31	92.4	11.79	187.7	6.71	0	0	0	
22:31	95.8	11.31	174.	6.79	0	0	0	
22:32	99.16	11.72	187.7	6.77	0	0	0	
22:32	102.6	11.39	174.	6.79	0	0	0	
22:33	106.	11.32	178.6	6.79	0	0	0	
22:33	109.4	11.2	169.4	6.74	0	0	0	
22:34	112.8	11.01	174.	6.82	0	0	0	
22:34	116.2	11.14	174.	6.82	0	0	0	
22:35	119.6	11.36	183.2	6.77	0	0	0	
22:35	123.	11.38	183.2	6.79	0	0	0	
22:36	126.4	11.39	183.2	6.79	0	0	0	
22:36	129.8	11.3	178.6	6.79	0	0	0	
22:37	133.4	11.25	210.6	7.38	0	0	0	
22:37	137.1	11.17	206.	7.47	0	0	0	
22:38	140.9	11.08	201.5	7.47	0	0	0	
22:38	144.6	11.07	201.5	7.47	0	0	0	
22:39	148.4	10.98	196.9	7.41	0	0	0	
22:39	152.1	11.27	215.2	7.33	0	0	0	
22:40	155.8	11.47	224.4	7.33	0	0	0	
22:40	159.5	11.29	219.8	7.33	0	0	0	
22:41	163.2	11.09	219.8	7.27	0	0	0	
22:41	166.8	11.2	219.8	7.33	0	0	0	
22:42	170.5	10.75	215.2	7.35	0	0	0	
22:42	174.2	9.51	183.2	7.27	0	0	0	
22:43	174.2	9.51	183.2	7.27	0	0	0	Start Mixing Tail Slurry
22:43	0.806	11.6	141.9	4.39	0	0	0	
22:43	3.31	15.1	293.	5.93	0	0	0	
22:44	6.34	15.29	288.5	6.1	0	0	0	
22:44	9.45	14.33	228.9	6.18	0	0	0	
22:45	12.55	15.24	279.3	6.18	0	0	0	
22:45	15.67	15.03	261.	6.18	0	0	0	
22:46	18.8	14.8	247.3	6.24	0	0	0	
22:46	21.93	15.07	261.	6.18	0	0	0	
22:47	25.05	14.61	242.7	6.26	0	0	0	
22:47	28.16	15.38	279.3	6.15	0	0	0	
22:48	31.27	14.96	247.3	6.18	0	0	0	
22:48	34.38	14.84	242.7	6.24	0	0	0	

Well		Field			Service Date		Customer		Job Number
HCU #15-21 C		BRADSHAW					S DREYFUS NATURAL GAS		20170703
Time	CumVol	Density	Pressure U1	TotFlowrate				Message	
24 hr clock	bbbl	ppg	psi	bpm					
22:49	37.5	14.8	238.1	6.21	0	0	0		
22:49	40.63	14.73	228.9	6.21	0	0	0		
22:50	43.76	13.75	183.2	6.24	0	0	0		
22:50	43.76	13.75	183.2	6.24	0	0	0	Shutdown	
22:54	43.76	13.75	183.2	6.24	0	0	0	Drop Top Plug	
22:55	43.76	13.75	183.2	6.24	0	0	0	Start Displacement	
22:55	0.	5.	4.58	0.	0	0	0		
22:55	0.	5.	9.16	0.	0	0	0		
22:56	0.	5.	9.16	0.	0	0	0		
22:56	0.	5.	0.	0.	0	0	0		
22:57	0.848	5.	105.3	5.96	0	0	0		
22:57	3.89	5.	82.42	6.12	0	0	0		
22:58	6.98	5.	82.42	6.18	0	0	0		
22:58	10.09	5.	82.42	6.24	0	0	0		
22:59	13.22	5.	87.	6.24	0	0	0		
22:59	16.33	5.	210.6	6.21	0	0	0		
23:00	19.44	5.	288.5	6.18	0	0	0		
23:00	22.54	5.	283.9	6.21	0	0	0		
23:00	22.54	5.	283.9	6.21	0	0	0	Return 35bbl/81 sks	
23:01	25.64	5.	421.2	6.18	0	0	0		
23:01	28.64	5.	508.2	6.18	0	0	0		
23:02	31.74	5.	586.1	6.18	0	0	0		
23:02	34.82	5.	659.3	6.1	0	0	0		
23:03	37.88	5.	723.4	6.1	0	0	0		
23:03	37.88	5.	723.4	6.1	0	0	0	Lower Pump Rate	
23:03	40.93	5.	737.2	5.51	0	0	0		
23:04	42.09	5.	654.8	2.18	0	0	0		
23:04	43.17	5.	691.4	2.18	0	0	0		
23:05	44.27	5.	714.3	2.18	0	0	0		
23:05	45.35	5.	723.4	2.15	0	0	0		
23:06	46.07	5.	1218	0.	0	0	0		
23:06	46.07	5.	1218	0.	0	0	0	Bump Top Plug	
23:06	46.07	5.	1218	0.	0	0	0		
23:07	46.07	5.	1007	0.	0	0	0		
23:07	46.07	5.	0.	0.	0	0	0		
23:08	46.07	5.	0.	0.	0	0	0	End Job	
23:08	46.07	5.	0.	0.	0	0	0		

Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2		Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
5	0	0	7	236	0	10	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
700	1235	200	1235	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 35 bbl		<input type="checkbox"/> Washed Thru Perfs To 0 ft		
0 %	249 bbl		45.8 bbl	°F					
Customer or Authorized Representative				Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input type="checkbox"/> Job Completed		
Darrell Toews				Charley King					

Well HCU-1521-C	Client Louis Dreyfus
Field	SIR No. 20170703
Country USA	Job Date 08/09/2000 10:13:42 PM



Job: dreyfus

08/09/2000 23:14:57