ORIGINAL

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

Operator: License # 31321

Name: Louis Dreyfus Natural Gas Corp.

Address: Suite 600

14000 Quail Springs Parkway

City/State/Zip Oklahoma City, OK 73134

Purchaser: Duke Energy

Operator Contact Person: Lenora Sawyer

Phone (405) 748-2725

Contractor: Name Val Energy 8-17-00

License: 5822

Wellsite Geologist: NA

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

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
X 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.
____ Other (SWD or Inj?) Docket No.

6/25/00 Spud Date | 7/2/00 Date Reached TD | 8/7/00 Completion Date

RECEIVED
KANSAS CORPORATION COMMISSION
AUG 17 2000
CONSERVATION DIVISION
WICHITA, KS

API NO. 15- 025-21212-00-00

County Clark

____ - NE - SW - SW Sec. 2 Twp. 35S Rge. 25 X E W

1240' Feet from S / N (circle one) Line of Section

1095' Feet from E / W (circle one) Line of Section

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

Lease Name Theis W Well # 2-2X

Field Name McKinney

Producing Formation Chester

Elevation: Ground 1989' KB 1994'

Total Depth 6020' PBTD 5935'

Amount of Surface Pipe Set and Cemented at 838' Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from 838'

feet depth to Surface w/ 425 sx cmt

Drilling Fluid Management Plan ALT 1 JH 10/4/00
(Data must be collected from the Reserve Pit)

Chloride content 4050 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 8/14/00

Subscribed and sworn to before me this 14th day of August

2000

Notary Public Lorrie 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
C ____ Geologist Report Received

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

Form ACO-1 (7-91)

X

Operator Name Louis Dreyfus Natural Gas Corp. Lease Name Theis W Well # 2-2X

Sec. 2 Twp. 35S Rge. 25 ☐ East ☒ West County Clark

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

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

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

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
B. Heebner	4296'	-2302'
Lansing	4494'	-2500'
Marmaton	5186'	-3192'
Cherokee	5402'	-3408'
Morrow Shale	5692'	-3698'
Chester	5720'	-3726'
E-log TD	6019'	-4025'

List All E.Logs Run:
Minilog-Gamma Ray-X-Y Caliper Log
Compensated Z-Densilog Compensated Neutron-GR-X-Y Caliper
High Definition Induction Log-GR-Caliper
Gamma Ray / 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
Conductor		20"		124'			
Surface	12-1/4"	8-5/8"	24#	838'	Litewate & Class "A"	425	3%cc+2%gel+1/4# flocele/sk
Production	7-7/8"	4-1/2"	11.6#	6020'	Class "H"	265	.25%D167,.2%D65 & .2%D46

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
1 spf	5750-54'	Frac w/36000 gal gelled water (30% CO2)	5750-
1 spf	5784-86'	+36000 gal gelled 20% HCl (30% CO2) +	5865'
1 spf	5800-04'	20000 gal slick water	
2 spf	5808-16'		
1 spf	5828-30'		
1 spf	5832-37'		
1 spf	5861-65'		

TUBING RECORD Size 2-3/8" Set At 5738' Packer At NA Liner Run ☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj. 7/31/2000 Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	208	3	NA	NA

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) _____ _____

ALLIED CEMENTING CO., INC.

ORIGINAL

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
med. lodge

15-025-21212-0000

DATE 6-25-00	SEC. 2	TWP. 35s	RANGE 25w	CALLED OUT 12:00P.m.	ON LOCATION 4:00P.m.	JOB START 7:00P.m.	JOB FINISH 8:30P.m.
LEASE Theis	WELL # 2-2		LOCATION Englewood, 1½w-S/S			COUNTY Clark	STATE Ks.
OLD OR (NEW) (Circle one)							

CONTRACTOR VAL Energy
TYPE OF JOB Surface Csg.
HOLE SIZE 12¼ T.D. 844'
CASING SIZE 8⅝ DEPTH 843
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 500 MINIMUM 150
MEAS. LINE SHOE JOINT 42.80
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT Fresh H²O

OWNER Louis Dreyfus Nat. Gas Corp.

EQUIPMENT

PUMP TRUCK # 343 CEMENTER Larry D.
HELPER Justin
BULK TRUCK # 353 DRIVER mike
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 275sx ALW + 3%cc + ¼# Flo-Seal. 150sx Class A + 3%cc + 2% Gel

COMMON	150sx	@ 7.55	1132.50
POZMIX		@	
GEL	3sx	@ 9.50	28.50
CHLORIDE	4sx	@ 38.00	392.00
ALW	275sx	@ 7.05	1938.75
Flo-Seal	69#	@ 1.15	79.35
		@	
		@	
		@	
HANDLING	425sx	@ 1.05	446.25
MILEAGE	425sx 78 x .04		1326.00

TOTAL 5343.35

REMARKS:

Pipe on Bottom - Break Circ.
Pump 275sx ALW + 3%cc + ¼# Flo-Seal
Pump 150sx Class A + 3%cc + 2% Gel
Release Plug. Displace 51 Bbls
Fresh H²O. Bump Plug Release PSI
Float Held. Cement Did Circ.

SERVICE

DEPTH OF JOB 843'
PUMP TRUCK CHARGE 703.49
EXTRA FOOTAGE @
MILEAGE 78 @ 3.00 234.00
PLUG TRP 8⅝" @ 90.00 90.00
@
@

TOTAL 1027.49

CHARGE TO: Louis Dreyfus Nat. Gas Corp
STREET
CITY STATE ZIP

FLOAT EQUIPMENT

1-Reg. Guideshoe	@ 215.00	215.00
1-AFU Insert	@ 325.00	325.00
2-Centralizers	@ 55.00	110.00
2-Baskets	@ 180.00	360.00
	@	

TOTAL $ 1010.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and

ORIGINAL 5

Schlumberger

Dowell

Service Authorization

03-Jul-00

Dowell, A Division of Schlumberger Technology Corp.
204 S Missouri
Ulysses, KS

Job Number
20166260

Important- See other side for terms and conditions

Invoice Mailing Address:
LOUIS DREYFUS NATURAL GAS CO

14000 QUAIL SPRINGS PKWY, SUITE 600
OKLAHOMA CITY, OK 73134
US

ARRIVE LOCATION | Date | Time

Service Instructions
4 1/2" production casing set @ approx 5,150'
Reciprocate casing while pumping slurry
10 bbl CW7 mud flush ahead of slurry
Class H slurry @ 16.2 ppg, vol tbd from caliper

Service Description
Cementing -

Customer PO	Contract	AFE	Rig
0	0	0	VAL

Well	State/Province	County/Parish/Block	Legal Location
THEIS W 2-2X	KS	CLARK	2-35S-25W

Field: MCKINNEY

Customer or Authorized Representative: Bob Blevins

Dowell will furnish and customer shall purchase materials and services required in the performance of the following service instructions in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order.

Comments

Service Order: I authorize work to begin as per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attachment to this form and represent that I have authority to accept and sign this order	Signature of Customer or Authorized Representative	Signature of Dowell Representative
	Bob Blevins	Erik Halpain

Thank you for Calling Dowell!

ORIGINAL

Schlumberger
Dowell

Cementing Service Report

Customer	Job Number
LOUIS DREYFUS NATURAL GAS CO	20166260

Well	Location (legal)	Dowell Location	Job Start
THEIS W 2-2X	2-35S-25W	Ulysses, KS	

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
MCKINNEY	Morrow		7.88 in	6,020 ft	6,020 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
CLARK	KS	psi	140 °F	116 °F	psi/ft

Rig Name	Drilled For	Service Via
VAL	Oil & Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
	0 lb/gal	0 cp

Service Line	Job Type
Cementing	

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
psi	psi	4 1/2" HS&M

Service Instructions

4 1/2" production casing set @ approx 6,150'
Reciprocate casing while pumping slurry
10 bbl CW7 mud flush ahead of slurry
Class H slurry @ 16.2 ppg, vol tbd from caliper

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
6032	4.5	10.5		8rd

Tubing/Drill Pipe

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

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
				ft

Diameter in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	92.8 bbl	None	ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
bbl	92.8 bbl	bbl	bbl

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

Lift Pressure: psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers: 12 Top Plugs: 1 Bottom Plugs: 0

Cement Head Type: Single

Job Scheduled For: 7/3/00 0:00 Arrived on Location: 7/3/00 21:00 Leave Location:

Casing Tools

Shoe Type:	Guide
Shoe Depth:	6032 ft
Stage Tool Type:	
Stage Tool Depth:	0 ft
Collar Type:	Auto-Fill
Collar Depth:	5990 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)	Pressure 01 (psi)	TotFlowrate (bpm)				Message
4:26	0.	5.	3787	0.	0	0	0	
4:26	0	0	0	0	0	0	0	START ACQUISITION
4:26	0.	5.	-3787	0.	0	0	0	start cw7
4:27	2.21	8.43	219.8	4.59	0	0	0	
4:28	6.86	8.47	270.1	5.03	0	0	0	
4:29	12.12	8.18	251.8	5.31	0	0	0	
4:30	17.48	7.49	261.	5.26	0	0	0	
4:31	17.48	7.49	261.	5.26	0	0	0	|CumVol| = 19.57 bbl
4:31	17.48	7.49	261.	5.26	0	0	0	Reset Volume
4:31	17.48	7.49	261.	5.26	0	0	0	start cement
4:31	3.02	12.35	320.5	5.12	0	0	0	
4:32	8.17	14.77	320.5	5.23	0	0	0	
4:33	13.39	12.63	174.	5.28	0	0	0	
4:34	18.58	15.38	293.	5.09	0	0	0	
4:35	23.83	15.08	293.	5.17	0	0	0	
4:36	29.07	14.85	256.4	5.14	0	0	0	
4:37	34.33	12.64	119.	5.26	0	0	0	
4:38	39.55	14.62	187.7	5.12	0	0	0	
4:39	44.73	14.88	196.9	5.17	0	0	0	
4:40	49.89	15.31	233.5	5.12	0	0	0	
4:41	55.07	15.11	233.5	5.2	0	0	0	
4:42	60.25	15.15	247.3	5.17	0	0	0	

ORIGINAL

Well		Field		Service Date	Customer	Job Number
THEIS W #2-2X		MCKINNEY			IS DREYFUS NATURAL G	20166260

Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
4:43	65.4	15.43	270.1	5.06	0	0	0	
4:44	70.59	15.08	238.1	5.14	0	0	0	
4:45	75.75	15.2	242.7	5.12	0	0	0	
4:46	80.94	15.45	242.7	5.12	0	0	0	
4:47	86.13	15.	219.8	5.2	0	0	0	
4:48	91.32	14.42	196.9	5.26	0	0	0	
4:49	91.76	10.93	18.32	0.	0	0	0	
4:50	91.76	10.77	18.32	0.	0	0	0	
4:51	93.39	5.	77.64	2.21	0	0	0	
4:52	96.04	5.	128.2	2.68	0	0	0	
4:53	98.75	5.	123.6	2.68	0	0	0	
4:54	101.5	5.	128.2	2.68	0	0	0	
4:55	104.1	5.	36.63	1.76	0	0	0	
4:56	104.2	5.	18.32	0.	0	0	0	
4:57	104.2	5.	4.58	0.	0	0	0	
4:58	104.6	5.	68.68	4.28	0	0	0	
4:59	109.3	5.	27.47	4.7	0	0	0	
5:00	109.3	5.	27.47	4.7	0	0	0	Reset Volume
5:00	109.3	5.	27.47	4.7	0	0	0	[CumVol] = 112.2 bbl
5:00	1.73	5.	36.63	4.67	0	0	0	
5:00	1.73	5.	36.63	4.67	0	0	0	[CumVol] = 10 bbl
5:01	14.39	5.	54.95	4.64	0	0	0	
5:02	19.07	5.	45.79	4.67	0	0	0	
5:03	23.78	5.	41.21	4.67	0	0	0	
5:04	28.46	5.	36.63	4.67	0	0	0	
5:05	33.13	5.	50.37	4.64	0	0	0	
5:06	37.8	5.	41.21	4.64	0	0	0	
5:07	42.49	5.	45.79	4.67	0	0	0	
5:08	47.16	5.	54.95	4.64	0	0	0	
5:09	51.81	5.	50.37	4.61	0	0	0	
5:10	56.46	5.	45.79	4.64	0	0	0	
5:11	61.11	5.	54.95	4.61	0	0	0	
5:12	65.67	5.	178.6	4.45	0	0	0	
5:13	70.19	5.	311.4	4.45	0	0	0	
5:14	74.6	5.	462.5	4.25	0	0	0	
5:15	78.94	5.	554.	4.28	0	0	0	
5:16	82.94	5.	618.1	2.63	0	0	0	
5:17	85.57	5.	677.7	2.6	0	0	0	
5:18	88.2	5.	700.5	2.6	0	0	0	
5:19	90.82	5.	783.	2.6	0	0	0	
5:20	92.16	5.	663.9	0.	0	0	0	
5:21	92.67	5.	728.	0.	0	0	0	
5:22	92.67	5.	311.4	0.	0	0	0	
5:23	92.67	5.	13.74	0.	0	0	0	
5:24	92.67	5.	13.74	0.	0	0	0	

ORIGINAL

Well	Field	Service Date	Customer	Job Number
THEIS W #2-2X	MCKINNEY		IS DREYFUS NATURAL G	20166260

Time (24 hr clock)	CumVol (bbl)	Density (ppg)	Pressure Ut (psi)	TotFlowrate (bpm)				Message

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
5	0	0	6

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
70	0	10	0

Treating Pressure Summary psi

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

Breakdown Fluid

Type	Volume	Density
	0 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface? Volume	
0 %	0 bbl	100 bbl	°F	☐ Washed Thru Perfs To	0 bbl / 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Bob Blevins	Erik Halpain	☐ CirculationLost	☑ Job Completed

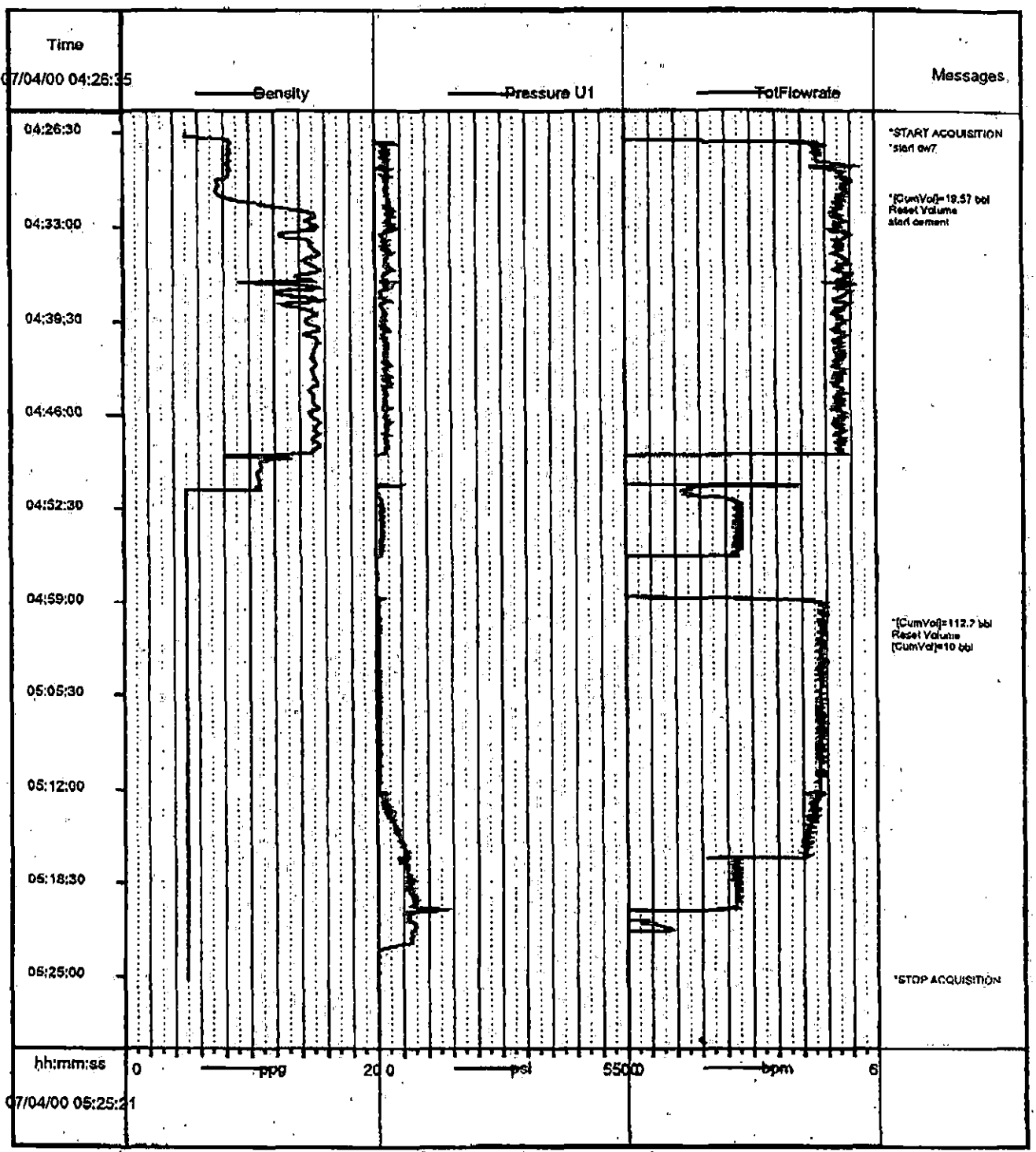
Schlumberger
Dowell

Cementing Job Report

ORIGINAL

PRISM* V2.

Well	THEIS W 2-2X	**Client**	LOUIS DREYFUS
Field		**SIR No.**	20166260
Country	USA	**Job Date**	7/4/2000 4:26:35 AM



* Mark of Schlumberger