

ORIGINAL

RECEIVED KANSAS CORPORATION COMMISSION

11-17-98

NOV 17 1998

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 31321 Name: Louis Dreyfus Natural Gas Corp. Address 14000 Quail Springs Parkway Suite 600 City/State/Zip Oklahoma City, OK 73134 Purchaser: KN Gas Marketing Operator Contact Person: Terrye D. Bryant Phone (405) 749-5287 Contractor: Name: Cheyenne Drilling License: 5382 Wellsite Geologist: N/A

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Designate Type of Completion X New Well Re-Entry Workover Oil SWD SIGW Temp. Abd. X Gas ENHR SIGW Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: NOV 16 1998

Well Name: CONFIDENTIAL

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.

7/22/98 7/24/98 10/1/98 Spud Date Date Reached TD Completion Date

API NO. 15- 075-206770000 County Hamilton CONSERVATION DIVISION WICHITA, KS C - NE Sec. 33 Twp. 22S Rge. 4E X W 1320 Feet from S (circle one) Line of Section 1320 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 HCU Well # 3321-C Field Name Bradshaw Producing Formation Chase Group Elevation: Ground 3535' KB 3540' Total Depth 2900' PBDT 2845' Amount of Surface Pipe Set and Cemented at 324' Feet Multiple Stage Cementing Collar Used? Yes No No If yes, show depth set Feet If Alternate II completion, cement circulated from 2892' feet depth to surface w/ 535 sx cmt.

Drilling Fluid Management Plan A14.2 2-25-99 U.C. (Data must be collected from the Reserve Pit)

Chloride content 86,000 ppm Fluid volume 800 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: RELEASED

Operator Name MAY 06 2000

Lease Name License No. FROM CONFIDENTIAL 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 CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

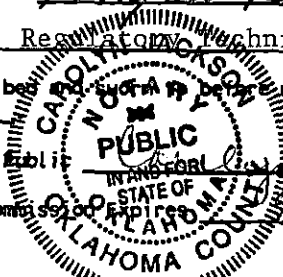
Signature Terrye D. Bryant

Title Regulatory Technician Date 11/12/98

Subscribed and sworn to before me this 12th day of November 1998

Notary Public Jackson

Date Commission Expires 24-01



K.C.C. OFFICE USE ONLY Letter of Confidentiality Attached Wireline Log Received Geologist Report Received Distribution KCC SWD/Rep NGPA KGS Plug Other (Specify)

ORIGINAL

SIDE TWO

Operator Name Louis Dreyfus Natural Gas Corp. Lease Name HCU Well # 3321-C

Sec. 33 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 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No (Submit Copy.)

List All E.Logs Run:
 Dual Induction Focused/GR
 Compensated Z-Density/CNL/GR
 Minolog

Log Formation (Top), Depth and Datum Sample

Name Top Datum

See attachments

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"	J-55, 243	324'	Class C	185	2% CC, 1/4# CF
Production	7 7/8"	4 1/2"	J-55, 10.5#	2892'	Class C	Lead300	3% D79, .2% D46, 1/4# CF
						Tail235	2% CC, 1/4# CF

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
2	2691'-2703'	Frac w/21,800 gal. 70 Q foam	
2	2677'-2683'	& 49,000# 12/20 Ottawa SD.	

TUBING RECORD Size 2 3/8" Set At 2741' Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. 10/15/98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	-0-	271	208	N/A	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 2691'-2703'
2677'-2683'

15-075-20677-0060

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DRILLERS LOG

KANSAS CORPORATION COMMISSION

LOUIS DREYFUS NATIONAL GAS CORP
HCU 3321-C
SECTION 29-T22S-R41W
HAMILTON COUNTY, KANSAS

NOV 17 1998

COMMENCED: 07-21-98
COMPLETED: 07-24-98

CONSERVATION DIVISION
WICHITA, KS

SURFACE CASING: 324' OF 8 5/8" CMTD
W/175 SKS CLASS C + 2% CC + 1/4 #/SK
FLOCELE.

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FORMATION

DEPTH

SURFACE HOLE	0 - 324
RED BED	324 - 1563
GLORIETTA	1563 - 1748
RED BED	1748 - 2400
CHASE & TOWANDA	2400 - 2900 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

WRAY VALENTINE

KCC

NOV 16 1998

CONFIDENTIAL

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28TH DAY OF JULY, 1998.

JOLENE K. RUSSELL

Jolene K. Russell
NOTARY PUBLIC



RELEASED

MAY 06 2000

FROM CONFIDENTIAL

15-075-20677-0000

ORIGINAL

Schlumberger
Dowell

Cementing Service Report

CONFIDENTIAL

Customer: LOUIS DREYFUS NATURAL GAS CORP
Job Number: 20070806

Well: HCU 33-21C		Location (legal): Sec. 33-22S-41W		Dowell Location: Ulysses, KS		Job Start: 7/21/98	
Field: Bradshaw		Formation Name/Type:		Deviation: 0		Bit Size: 12.3 in	
County: Hamilton		State/Province: Kansas		Well MD: 324 ft		Well TVD: 324 ft	
Rig Name: CHEYENNE 8		Drilled For: Gas		Service Via: Land		BHP: 0 psi	
Offshore Zone:		Well Class: New		Well Type: Development		BHST: 80 °F	
Drilling Fluid Type: Bentonite		Max. Density: 0 lb/gal		Plastic Viscosity: 0 cp		BHCT: 80 °F	
Service Line: Cementing		Job Type: Cem Surface Casing		WellHead Connection: Single cement head		Pore Press. Gradient: 0 psi/ft	
Max. Allowed Tubing Pressure: 1000 psi		Max. Allowed Ann. Pressure: 0 psi		WellHead Connection: Single cement head		Casing/Liner	
Service Instructions: Safely cement the HCU 33-21C with 185 sacks of Class C and additives as per clients instructions. Mileage 61 miles KCC NOV 16 1998		Casing/Depth: 315		Casing/Size: 8.63		Casing/Weight: 24	
Casing/Depth: 0		Casing/Size: 0		Casing/Weight: 0		Casing/Grade:	
Casing/Depth: 0		Casing/Size: 0		Casing/Weight: 0		Casing/Thread:	
Tubing/Depth: 0		Tubing/Size: 0		Tubing/Weight: 0		Tubing/Grade:	
Tubing/Depth: 0		Tubing/Size: 0		Tubing/Weight: 0		Tubing/Thread:	
Perforations/Top: 0		Perforations/Bottom: 0		Perforations/spf: 0		Perforations/No. of Shots: 0	
Perforations/Total Interval: 0 ft		Perforations/Diameter: 0 in		Perforations/Treat Down: Casing		Perforations/Displacement: 17.8 bbl	
Perforations/Packer Type:		Perforations/Packer Depth: 0 ft		Perforations/Tubing Vol.: 0 bbl		Perforations/Casing Vol.: 20.6 bbl	
Perforations/Annular Vol.: 23.2 bbl		Perforations/Open Hole Vol.: 0 bbl		Casing Tools		Squeeze Job	
Casing/Tubing Secured: <input checked="" type="checkbox"/>		1 Hole Volume: <input type="checkbox"/>		Shoe Type: Guide		Squeeze Type:	
Lift Pressure: 100 psi		Pipe Rotated: <input type="checkbox"/>		Pipe Reciprocated: <input type="checkbox"/>		Shoe Depth: 324 ft	
No. Centralizers: 3		Top Plugs: 1		Bottom Plugs: 0		Tool Type:	
Cement Head Type: Single		Stage Tool Type:		Tool Depth: 0 ft		Stage Tool Depth: 0 ft	
Job Scheduled For: 7/21/98		Arrived on Location: 7/21/98 18:40		Leave Location: 7/21/98 21:00		Collar Type: Auto-Fill	
Collar Depth: 279 ft		Tail Pipe Size: 0 in		Tail Pipe Depth: 0 ft		Collar Depth: 279 ft	
Sqz Total Vol: 0 bbl		Message		START ACQUISITION		RECEIVED	
20:04		CumVol: 0		Density: 0		Pressure U1: 0	
20:04		CumVol: 0		Density: -6.25		Pressure U1: -3546	
20:04		CumVol: .364		Density: 8.318		Pressure U1: 602.4	
20:04		CumVol: 0		Density: 0		Pressure U1: 0	
20:05		CumVol: .3767		Density: 8.333		Pressure U1: 1377	
20:05		CumVol: .3767		Density: 8.318		Pressure U1: -27.17	
20:06		CumVol: .3767		Density: 8.326		Pressure U1: -49.82	
20:06		CumVol: 0		Density: 0		Pressure U1: 0	
20:06		CumVol: 0		Density: 0		Pressure U1: 0	
20:06		CumVol: 2.334		Density: 8.318		Pressure U1: -49.82	
20:07		CumVol: 5.004		Density: 8.303		Pressure U1: -18.12	
20:07		CumVol: 7.814		Density: 8.303		Pressure U1: 36.23	
20:08		CumVol: 10.62		Density: 8.288		Pressure U1: 13.59	
20:08		CumVol: 0		Density: 0		Pressure U1: 0	
20:08		CumVol: 0		Density: 0		Pressure U1: 0	
20:08		CumVol: 13.43		Density: 14.46		Pressure U1: 95.11	
20:09		CumVol: 16.24		Density: 13.38		Pressure U1: 81.52	
20:09		CumVol: 19.05		Density: 11.73		Pressure U1: 58.88	
20:10		CumVol: 21.86		Density: 13.23		Pressure U1: 49.82	
20:10		CumVol: 24.67		Density: 14.32		Pressure U1: 86.05	
20:11		CumVol: 27.48		Density: 14.92		Pressure U1: 108.7	
20:11		CumVol: 30.3		Density: 14.8		Pressure U1: 108.7	

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KANSAS CORPORATION COMMISSION

NOV 17 1998

CONSERVATION DIVISION
WICHITA, KS

RELEASED

NOV 06 2000

FROM CONFIDENTIAL

Well		Field		Service Date		Customer		Job Number	
HCU #33-21C		Bradshaw				S DREYFUS NATURAL GAS		20070806	
Time	CumVol	Density	Pressure U1	Stage Vol	TotFlowrate	Message			
24 hr clock	bbl	ppg	psi	bbl	bpm				
20:12	33.11	14.93	113.2	22.11	5.592	0	0		
20:12	35.74	14.84	117.8	24.74	5.592	0	0		
20:13	38.55	14.5	108.7	27.55	5.592	0	0		
20:13	41.36	14.99	122.3	30.36	5.592	0	0		
20:14	44.17	15.08	117.8	33.17	5.592	0	0		
20:14	46.98	14.74	113.2	35.98	5.592	0	0		
20:15	49.79	14.74	108.7	38.79	5.592	0	0	KCC	
20:15	52.6	14.93	113.2	41.6	5.592	0	0	NOV 16 1998	
20:16	55.41	14.58	122.3	44.41	5.592	0	0	NOV 16 1998	
20:16	0	0	0	0	0	0	0	[Stage Vol]=0 bbl	
20:16	56.06	14	-49.82	0	0	0	0	CONFIDENTIAL	
20:17	0	0	0	0	0	0	0	start displacement	
20:17	56.06	14.01	-45.29	0	0	0	0		
20:17	0	0	0	0	0	0	0	drop plug	
20:17	56.06	14.01	-45.29	0	0	0	0		
20:18	56.06	14	-40.76	0	0	0	0		
20:18	56.84	13.27	63.41	.7746	4.949	0	0		
20:19	59.31	9.585	0	3.25	5.061	0	0		
20:19	61.84	8.661	-4.529	5.777	5.005	0	0		
20:20	64.37	8.379	0	8.302	5.005	0	0		
20:20	66.89	8.265	22.64	10.83	5.033	0	0		
20:21	69.42	8.158	40.76	13.35	5.005	0	0		
20:21	0	0	0	0	0	0	0	decrease rate	
20:21	70.91	8.356	-31.7	14.85	2.125	0	0	RECEIVED	
20:22	71.98	8.326	-27.17	15.92	2.125	0	0	KANSAS CORPORATION COMMISSION	
20:22	73.06	8.318	-9.058	16.99	2.125	0	0		
20:23	74.13	8.318	-13.59	18.07	2.125	0	0		
20:23	74.76	8.31	-18.12	18.7	0	0	0	NOV 17 1998	
20:24	74.76	8.333	-67.93	18.7	0	0	0		
20:24	74.76	8.356	-54.35	18.7	0	0	0	CONSERVATION DIVISION	
20:25	74.76	8.356	-49.82	18.7	0	0	0	WICHITA KS	
20:25	74.76	8.364	-54.35	18.7	0	0	0		
20:26	74.76	8.364	-49.82	18.7	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
5.6	0	0	5.9	44	0	10	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Type	Volume	Density	
125	0	100	0		0 bbl	0 lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement		Cement Circulated to Surface? <input checked="" type="checkbox"/>	
0 %		0 bbl		17.8 bbl		Volume 8 bbl	
Customer or Authorized Representative				Dowell Supervisor			
Melvin Noey				Danny Reid			
				<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

RELEASED

MAY 06 2000

FROM CONFIDENTIAL



Cementing Service Report

CONFIDENTIAL

Customer: LOUIS DREYFUS NATURAL GAS CORP	Job Number: 20071059
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Well HCU 33-21C		Location (legal) Section 33 - 22S - 41W		Dowell Location Ulysses, KS		Job Start 7/24/98	
Field		Formation Name/Type		Deviation 0		Well MD 2,900 ft	
County Hamilton		State/Province Kansas		Bit Size 7.88 in		Well TVD 2,900 ft	
Rig Name		Drilled For Gas		Service Via Land		BHP 0 psi	
Offshore Zone		Well Class Old		Well Type Workover		BHST 100 °F	
Drilling Fluid Type Bentonite		Max. Density 9.1 lb/gal		Plastic Viscosity 0 cp		BHCT 100 °F	
Service Line Cementing		Job Type Cem Prod Casing		Casing/Liner			
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure 0 psi		WellHead Connection Single cement hea		Perforations/Open Hole	
Service Instructions Safely cement the HCU 33-21C with 300 sks of lead and 235 sacks of tail with 10 bbl CW100 as per clients instructions. Mileage 61 miles KCC NOV 16 1998		Depth, ft		Size, in		Weight, lb/ft	
		2890		4.5		10.5	
		0		0		0	
		Depth, ft		Size, in		Weight, lb/ft	
		0		0		0	
		0		0		0	
		Top, ft		Bottom, ft		spf	
		0		0		0	
		0		0		0	
		0		0		0	
		No. of Shots		Total Interval		Packer Depth	
		0		0 ft		0 ft	
		0		0		0	
		0		0		0	
		Diameter		Open Hole Vol		Packer Type	
		0 in		0 bbl		0 ft	
		0		0		0	
		0		0		0	
		Treat Down		Displacement		Annular Vol.	
		Casing		45.2 bbl		117 bbl	
		0 bbl		45.91 bbl		0 bbl	
		Casing Tools		Squeeze Job			
		Shoe Type: Guide		Squeeze Type			
		Shoe Depth: 2890 ft		Tool Type:			
		Stage Tool Type		Tool Depth: 0 ft			
		Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in			
		Collar Type: Float		Tail Pipe Depth: 0 ft			
		Collar Depth: 2845 ft		Sqz Total Vol: 0 bbl			

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Time	CumVol	Density	Pressure UI	Stage Vol	TotFlowrate	Message	
24 hr clock	bbl	ppg	psi	bbl	bpm		
0:17	0	0	0	0	0	0	START ACQUISITION
0:17	0	8.242	0	0	0	0	
0:18	0	8.242	0	0	0	0	
0:19	0	0	0	0	0	0	Pressure Test Lines
0:19	.3779	8.234	2363	.3779	0	0	
0:20	0	0	0	0	0	0	Start Job
0:20	0	0	0	0	0	0	(Stage Vol)=0 bbl
0:20	0	0	0	0	0	0	start CW100
0:20	.3779	8.226	67.77	0	0	0	
0:21	3.199	8.318	230.4	2.822	5.592	0	
0:22	8.82	8.356	275.6	8.443	5.592	0	
0:23	14.45	12.1	356.9	14.07	5.592	0	
0:23	0	0	0	0	0	0	(Stage Vol)=0 bbl
0:23	0	0	0	0	0	0	Start Mixing Lead Slurry
0:24	0	0	0	0	0	0	(Stage Vol)=6 bbl
0:24	21.63	11.45	420.2	7.168	7.745	0	
0:25	29.42	11.19	361.4	14.96	7.773	0	
0:26	37.34	11.16	334.3	22.88	7.913	0	
0:27	45.28	11.16	289.2	30.82	7.913	0	
0:28	53.22	11.07	230.4	38.76	7.913	0	
0:29	61.14	11.16	230.4	46.68	7.885	0	
0:30	69.02	11.02	225.9	54.56	7.913	0	

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ORIGINAL

Well		Field		Service Date		Customer		Job Number	
HCU #33-21C						3 DREYFUS NATURAL GAS		20071059	
Time	CumVol	Density	Pressure UI	Stage Vol	TotFlowrate			Message	
24 hr clock	bbl	ppg	psl	bbl	bpm				
0:31	76.82	11.29	225.9	62.36	7.745	0	0		
0:32	84.59	11.37	230.4	70.13	7.745	0	0		
0:33	92.38	10.91	216.9	77.92	7.885	0	0		
0:34	100.2	11.26	221.4	85.74	7.745	0	0		
0:35	108.1	11.24	230.4	93.63	7.913	0	0		
0:36	116	11.29	221.4	101.5	7.717	0	0		
0:37	123.7	11.08	216.9	109.3	7.717	0	0		
0:38	131.5	10.96	221.4	117	7.745	0	0		
0:39	139.3	11.16	221.4	124.8	7.745	0	0		
0:40	147	11.12	221.4	132.6	7.745	0	0		
0:41	154.8	11.14	221.4	140.4	7.717	0	0		
0:42	162.6	11.06	221.4	148.1	7.745	0	0		
0:43	170.4	11.33	230.4	155.9	7.717	0	0		
0:44	178.3	10.89	248.5	163.8	7.913	0	0		
0:44	0	0	0	0	0	0	0	(Stage Vol)=0 bbl	
0:44	0	0	0	0	0	0	0	Start Mixing Tail Slurry	
0:45	186.2	15.08	402.1	7.673	7.885	0	0		
0:46	194.1	15.16	388.6	15.61	7.885	0	0		
0:47	202.1	14.99	375	23.55	7.885	0	0		
0:48	210	14.13	311.7	31.5	7.941	0	0		
0:49	218	14.84	361.4	39.44	7.913	0	0		
0:50	225.9	14.84	352.4	47.38	7.913	0	0		
0:51	233.8	14.61	338.9	55.31	7.913	0	0		
0:52	0	0	0	0	0	0	0	(Stage Vol)=0 bbl	
0:52	0	0	0	0	0	0	0	wash lines	
0:52	238.1	13.25	0	.1743	0	0	0		
0:53	240	9.715	167.2	2.084	5.173	0	0		
0:54	244	8.509	-36.14	6.103	0	0	0		
0:55	245.4	8.478	-13.55	7.513	3.439	0	0		
0:56	0	0	0	0	0	0	0	Drop Top Plug	
0:56	0	0	0	0	0	0	0	Start Displacement	
0:56	251.1	8.226	49.7	13.18	5.732	0	0		
0:57	0	0	0	0	0	0	0	(Stage Vol)=7.5 bbl	
0:57	256.8	8.12	180.7	11.9	5.676	0	0		
0:58	262.5	8.188	225.9	17.52	5.592	0	0		
0:59	268.1	8.15	356.9	23.14	5.564	0	0		
1:00	273.7	8.074	497	28.76	5.592	0	0		
1:01	279.3	8.15	605.4	34.38	5.592	0	0		
1:02	284.1	8.173	628	39.13	2.097	0	0		
1:03	286.2	8.196	659.6	41.24	2.097	0	0		
1:04	288.3	8.188	709.3	43.35	2.097	0	0		
1:05	290.4	8.188	736.4	45.46	2.069	0	0		
1:06	0	0	0	0	0	0	0	Bump Top Plug	
1:06	291.2	3.961	1102	46.3	0	0	0		
1:07	291.2	3.342	4.518	46.3	0	0	0		

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15-075-20677-0000

ORIGINAL

Well HCU #33-21C		Field		Service Date		Customer DREYFUS NATURAL GAS		Job Number 20071059			
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psl	Stage Vol. bbl	TotFlowrate bpm	Message					
Post Job Summary											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry		N2		Mud	Maximum Rate	Total Slurry		Mud	Spacer		N2
7.5		0		0	8	225		0	10		0
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average		Bump Plug to	Breakdown	Type	Volume		Density		
745	740	250		1220	0		0 bbl		0 lb/gal		
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input checked="" type="checkbox"/>	Cement Circulated to Surface?	Volume		45	bbl
0 %		0 bbl		46 bbl		<input type="checkbox"/>	Washed Thru Perfs	To		0 ft	
Customer or Authorized Representative Melvin Noey				Dowell Supervisor Reid, Danny				<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	

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GEOLOGICAL WELL REPORT

ORIGINAL

Well: LDNG
 HCU 3321-C
 1320' FNL & 1320' FEL
 Sec. 33-22S-41W
 Hamilton County, KS

Date: July 28, 1998
 Geologist: Sam Roark

Total Depth: Driller - 2900'

ATLAS - 2900'

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Elevations: GL = 3535'

DF = 3538'

KB' = 3540'

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Logs Run: Dual Induction Focused/GR
 Compensated Z-Density/CNL/GR
 Minolog

CONSERVATION DIVISION
 WICHITA, KS

Date Logged: 7/23/98

FORMATION TOPS	DEPTH	SUBSEA	RELATIVE TO HCU 2021-B
Stone Corral	2144'	+1396'	7' high
Krider	2548'	+992'	1' high
Winfield	2590'	+950'	3' high
Towanda	2634'	+906'	5' high
Ft. Riley	2689'	+851'	6' high
E-log TD	2900'	+640'	

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